

at the heart of every project



# MESC

## PRODUCT CATALOGUE





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Middle East Specialized Cables Company (MESC) is a leading manufacturer in the Middle East, specializing in LV Power, Instrumentation, Control, Data, Signaling, and Special Cables. With a strong reputation for excellence and a commitment to delivering high-quality products, MESC caters to the diverse needs of valued customers. Since its establishment in 1993 as a privately owned company based in Riyadh, and then became a public listed company in 2008, MESC has become the market leader in Saudi Arabia (KSA). Expanding its operations to penetrate

markets Across the gcc , Middle East, North Africa, Europe, and the USA, MESC has solidified its position as a reputable player in the industry. In 2008, MESC established Middle East Specialized Cables (MESC) LLC, UAE, as a leading manufacturer and supplier of LV Power, Instrumentation, Control, Data, Signaling, and Special Cables. Located at Al Ghail Industrial Zone-NFZ in Ras Al Khaimah, UAE . MESC operates a state-of-the-art Production facility spread across 54,000 square meters, equipped with Production units, offices, Workshops and a Spacious Warehouse.

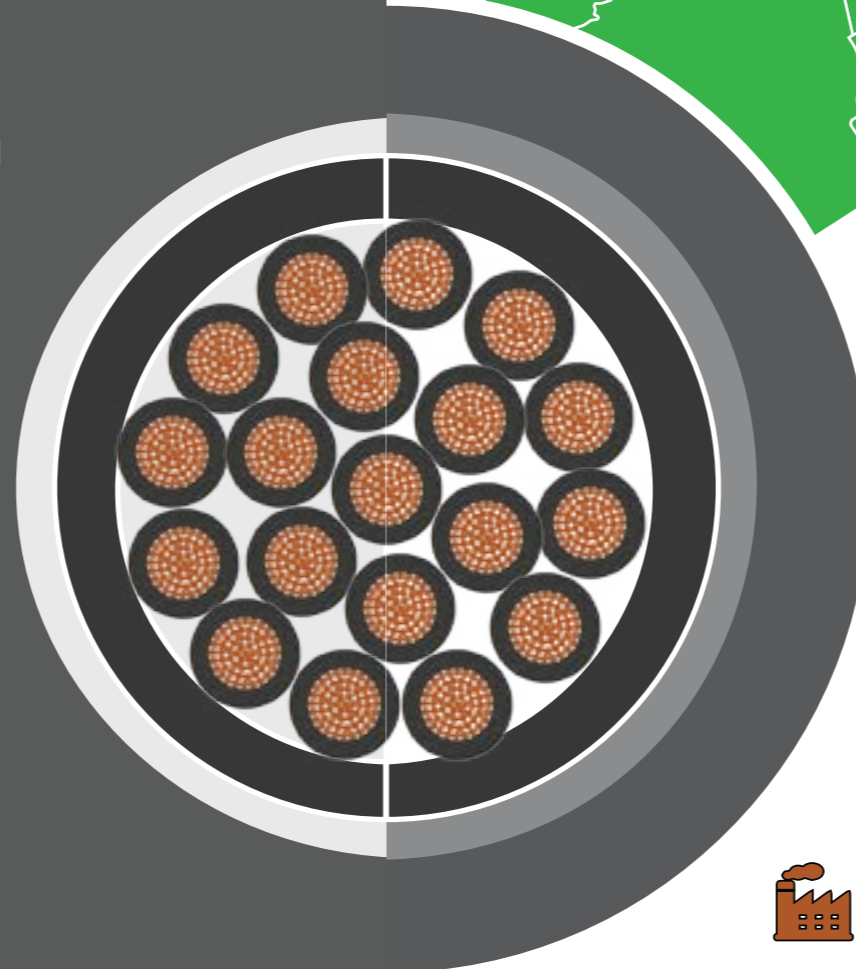
Since the commencement of its ultramodern production facility in 2010, inaugurated by His Highness Sheikh Saud bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah, MESC has remained committed to delivering top-quality cables and meeting the stringent requirements of its esteemed clientele. MESC's product range covers all types and ranges of Low Voltage Cables, including Industrial, Instrumentation and Process Control Cable, Special Cable (BMS), Offshore Cables, Railway Signaling and Power Cables, and customized cables manufactured to meet customer specifications. MESC operates with clearly defined quality

systems that are certified to ISO 9001, ISO 14001 and ISO 45001 ensuring total customer satisfaction through stringent quality control measures and policies. MESC's products are manufactured in accordance with international standards and undergo rigorous testing and certification processes by prestigious institutions. Approvals from renowned organizations such as TUV Saarland , BASEC (UK), KEMA (Netherlands), Saudi Arabia Standards Organization (SASO), UL (USA), VDE (Germany), and Warrington Fire Research (UK) , BVSAT (KSA) , DEKRA (Netherlands) , INTERTEK (USA) further validate MESC as a reliable and trusted partner in the field of specialized cables.

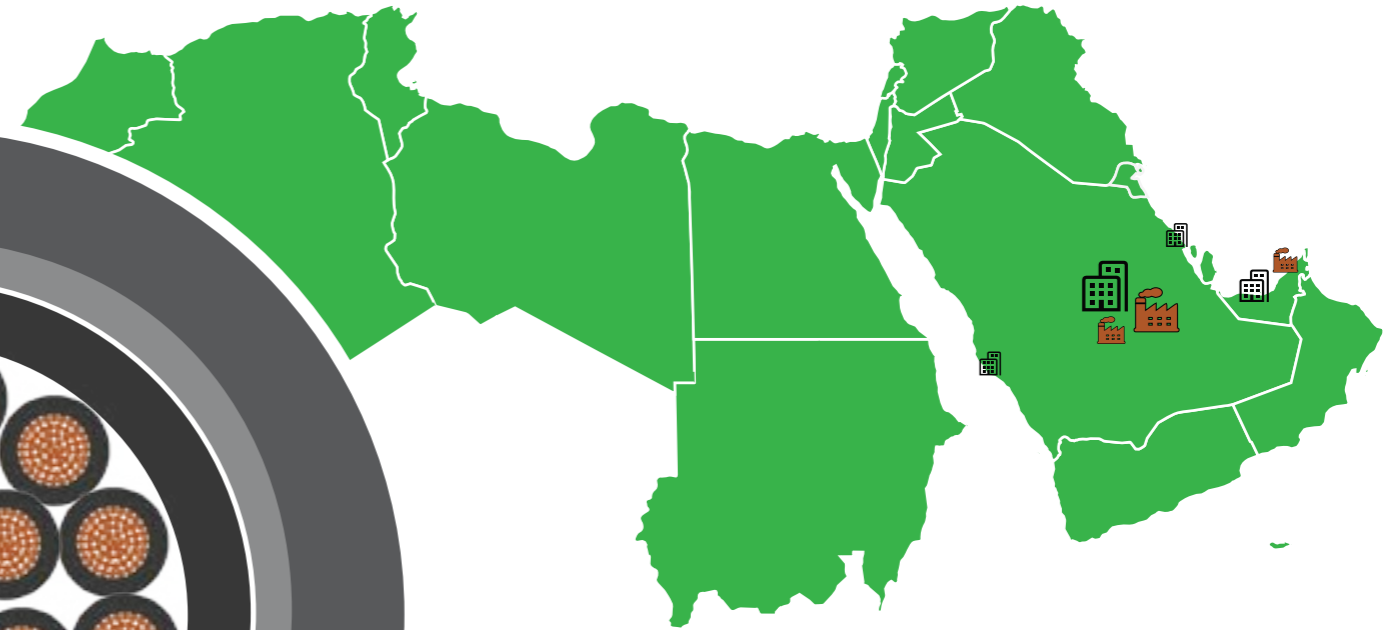


# WHY MESC?

- “One Stop Shop” for Cables
- Customized solutions as per the customer’s needs
- High quality products, competitive price and Reliable services
- Global “MESC” Brand recognition
- Proximity to the Mega Projects in the Region



## FACTORIES & OFFICES LOCATIONS



## MISSION & VISION

### Mission

To create long-term added value for our stakeholders through best-in-class products and services

### Vision

To be the trusted partner of choice for special cables and wire solutions

### Values

- RISC - Q
- Responsible
- Integrity
- Simplicity
- Collabroration
- Quality



### MANUFACTURING FACILITIES

**UAE  
MESC Cable**

Location: Ras Al-Khaimah - UAE  
PLN63, Al Ghail Industrial Zone - NFZ

**KSA  
MESC Cable**

Location: Riyadh - KSA  
2nd Industrial City, phase-3

**KSA  
MESC PVC**

Location: Riyadh - KSA  
2nd Industrial City, phase-2



### MESC SALES OFFICES

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Dubai Sales Office**

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P.O. Box 73750,  
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Fax: +97143437488  
dubai.sales@MESCcables.com

**KSA  
Riyadh Sales Office**

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Al Joud Building1 , Floor1  
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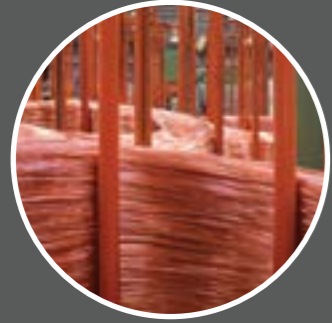
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Eastern RGN Sales Office**

King Khalid Road,  
NSH Towers ,5th Floor  
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Khobar, KSA  
Tel: +966114767373  
Fax: +966114723192  
general@MESCcables.com

**KSA  
Western RGN Sales Office**

Baladiyah Street,  
Al-Aziziya Center ,Office 32  
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general@MESCcables.com

# PROCESSING CAPABILITIES



WIRE DRAWING



MICA TAPING



INSULATION



ARMOURING



BRAIDING



BEDDING / SHEATHING



LEAD SHEATHING



TESTING

# MESC UAE FACILITY

SINCE 2010





# CERTIFIED BY



# CABLES CERTIFIED BY



# UTILITIES APPROVALS



# OUR CLIENTS





## SOFT DRAWN BARE COPPER CONDUCTOR



### APPLICATION

Soft Drawn : These conductors are used for earthing electrical systems where high conductivity is required.

### CONSTRUCTION

Soft Drawn

As per Class 2 of IEC-60228

#### Soft Drawn

SERIAL NO.	MESC MODEL NO.	SIZE mm <sup>2</sup>	NO. OF STRANDS	Approx O. D. mm	Approx Weight Kg/Km	Max. D.C. Resistance $\Omega$ / Km
1	9210-01C00100-U0008-00	1.0	7	1.29	9	18.1
2	9210-01C00150-U0008-00	1.5	7	1.59	14	12.1
3	9210-01C00250-U0008-00	2.5	7	2.01	22	7.41
4	9210-01C00400-U0008-00	4	7	2.55	36	4.61
5	9210-01C00600-U0008-00	6	7	3.10	52	3.08
6	9210-01C01000-U0008-00	10	7	4.05	88	1.83
7	9210-01C01600-U0008-00	16	7	5.1	138	1.15
8	9210-01C02500-U0008-00	25	7	6.4	213	0.727
9	9210-01C03500-U0008-00	35	7	7.5	300	0.524
10	9210-01C05000-U0008-00	50	19	8.9	406	0.387
11	9210-01C07000-U0008-00	70	19	10.7	592	0.268
12	9210-01C09500-U0008-00	95	19	12.6	815	0.193
13	9210-01C12000-U0008-00	120	37	14.2	1032	0.153
14	9210-01C15000-U0008-00	150	37	15.8	1278	0.124
15	9210-01C18500-U0008-00	185	37	17.6	1577	0.0991
16	9210-01C24000-U0008-00	240	37	20.1	2080	0.0754
17	9210-01C30000-U0008-00	300	61	22.2	2640	0.0601
18	9210-01C40000-U0008-00	400	61	25.0	3364	0.0470
19	9210-01C50000-U0008-00	500	61	27.9	4280	0.0366
20	9210-01C63000-U0008-00	630	91	31.5	5550	0.0283
21	9210-01C80000-U0008-00	800	91	37.0	7332	0.0221
22	9210-1C100000-U0008-00	1000	91	41.5	9223	0.0176

## HARD DRAWN BARE COPPER CONDUCTOR



### APPLICATION

Hard Drawn : These conductors are used for overhead electrical transmission and distribution systems.

### CONSTRUCTION

Hard Drawn

As per BS 7884 & DIN 48201-1

#### Hard Drawn

SERIAL NO.	MESC MODEL NO.	SIZE mm <sup>2</sup>	NO. OF STRANDS	Approx O. D. mm	Approx Weight Kg/Km	Calculated Breaking Load KN
1	9110-01C01000-U0008-00	10	7	4.05	88	4.02
2	9110-01C01600-U0008-00	16	7	5.10	138	6.37
3	9110-01C02500-U0008-00	25	7	6.42	213	9.72
4	9110-01C03500-U0008-00	35	7	7.56	300	13.78
5	9110-01C05000-U0008-00	50	19	8.9	406	19.39
6	9110-01C07000-U0008-00	70	19	10.7	592	26.39
7	9110-01C09500-U0008-00	95	19	12.6	815	37.40
8	9110-01C12000-U0008-00	120	37	14.2	1032	46.91
9	9110-01C15000-U0008-00	150	37	15.8	1278	58.99
10	9110-01C18500-U0008-00	185	37	17.6	1577	72.83
11	9110-01C24000-U0008-00	240	37	20.1	2080	93.6
12	9110-01C30000-U0008-00	300	61	22.2	2640	118

**Packing :** Delivered in standard length of 500/1000 meters on wooden reels. Higher size with more length steel drum on request is available

## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per IEC 60228
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text(Example)	Example: MESC 0.5mm <sup>2</sup> CU/PVC 300/500 V H05V-R BS EN 50525-2-31 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500V
Flame Retardant	IEC 60332-1-2

### TABLE: Non-Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7111-01C00050-U0BK8-00	0.5	7	0.6	2.1	9
2	7111-01C00075-U0BK8-00	0.75	7	0.6	2.3	13
3	7111-01C00100-U0BK8-00	1.0	7	0.6	2.5	15

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

Packing:

**Packing :** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per IEC 60228.
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text(Example)	Example: MESC 1.5mm <sup>2</sup> CU/PVC 450/750 V H07V-R BS EN 50525-2-31 60227 IEC 01 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	450/750V
Flame Retardant	IEC 60332-1-2

### TABLE: Non-Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7111-01C00150-U0BK8-00	1.5	7	0.7	3.1	22
2	7111-01C00250-U0BK8-00	2.5	7	0.8	3.7	34
3	7111-01C00400-U0BK8-00	4	7	0.8	4.2	51
4	7111-01C00600-U0BK8-00	6	7	0.8	4.8	71
5	7111-01C01000-U0BK8-00	10	7	1.0	6.1	119
6	7111-01C01600-U0BK8-00	16	7	1.0	7.2	170
7	7111-01C02500-U0BK8-00	25	7	1.2	8.9	285
8	7111-01C03500-U0BK8-00	35	7	1.2	10.1	380
9	7111-01C05000-U0BK8-00	50	19	1.4	11.8	509
10	7111-01C07000-U0BK8-00	70	19	1.4	13.6	720
11	7111-01C09500-U0BK8-00	95	19	1.6	16.0	990
12	7111-01C12000-U0BK8-00	120	37	1.6	17.6	1227
13	7111-01C15000-U0BK8-00	150	37	1.8	19.5	1510
14	7111-01C18500-U0BK8-00	185	37	2.0	21.8	1890
15	7111-01C24000-U0BK8-00	240	37	2.2	24.4	2385
16	7111-01C30000-U0BK8-00	300	61	2.4	27.2	2990
17	7111-01C40000-U0BK8-00	400	61	2.6	30.2	3750
18	7111-01C50000-U0BK8-00	500	61	2.8	34.0	4750
19	7111-01C63000-U0BK8-00	630	91	2.8	38.0	6100
20	7111-01C80000-U0BK8-00	800	91	2.8	42.7	7900
21	7111-1C100000-U0BK8-00	1000	91	3.0	47.6	9900

**TABLE:**  
Compacted Circular Conductor:



SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	71D1-01C01600-U0BK8-00	16	7	1.0	6.6	165
2	71D1-01C02500-U0BK8-00	25	7	1.2	8.2	265
3	71D1-01C03500-U0BK8-00	35	7	1.2	9.3	355
4	71D1-01C05000-U0BK8-00	50	7	1.4	11.0	485
5	71D1-01C07000-U0BK8-00	70	19	1.4	12.6	675
6	71D1-01C09500-U0BK8-00	95	19	1.6	14.8	935
7	71D1-01C12000-U0BK8-00	120	19	1.6	16.2	1165
8	71D1-01C15000-U0BK8-00	150	19	1.8	18.1	1420
9	71D1-01C18500-U0BK8-00	185	37	2.0	20.1	1785
10	71D1-01C24000-U0BK8-00	240	37	2.2	22.7	2335
11	71D1-01C30000-U0BK8-00	300	37	2.4	25.3	2890
12	71D1-01C40000-U0BK8-00	400	61	2.6	28.8	3695
13	71D1-01C50000-U0BK8-00	500	61	2.8	32.0	4715
14	71D1-01C63000-U0BK8-00	630	61	2.8	35.5	6060
15	71D1-01C80000-U0BK8-00	800	61	2.8	39.3	7850
16	71D1-1C100000-U0BK8-00	1000	61	3.0	44.3	9845

**Available Colors:** Available Colors: "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*IEC 60227-1 standard is applicable for size 1.5mm<sup>2</sup> to 400 mm<sup>2</sup>.

Above 400mm<sup>2</sup> are covered in only BS EN 50525-2-31, hence printing shall not be mark with "60227 IEC 01".

## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for to earth DC when used for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

#### Conductor

Plain annealed stranded copper class 2 as per IEC 60228.

#### Insulation

PVC Type TI 3 Rated 90°C as per BS EN 50363-3.

#### Printing Text (Example)

MESC 0.5mm<sup>2</sup> CU/PVC 300/500V H05V2-K BS EN 50525-2-31 60227 IEC 08 YEAR

### TECHNICAL DATA:

#### Operating Temperature

-15°C to 90°C

#### Voltage Rating

300/500V

#### Flame Retardant

IEC 60332-1-2

### TABLE:

Non-Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7C11-01C00050-U0BK8-00	0.5	7	0.6	2.1	9
2	7C11-01C00075-U0BK8-00	0.75	7	0.6	2.3	13
3	7C11-01C00100-U0BK8-00	1.0	7	0.6	2.5	15

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

**Special Features:** These cables are also available with rated Temperature 105°C according to UL\CSA standards.



## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per IEC 60228.
Insulation	PVC Type TI 3 Rated 90°C as per BS EN 50363-3.
Printing Text (Example)	MESC 1.5mm <sup>2</sup> CU/PVC 450/750 V H07V2-R BS EN 50525-2-31 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	450/750V
Flame Retardant	IEC 60332-1-2

### TABLE:

Non-Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7C11-01C00150-U0BK8-00	1.5	7	0.7	3.1	22
2	7C11-01C00250-U0BK8-00	2.5	7	0.8	3.7	34
3	7C11-01C00400-U0BK8-00	4	7	0.8	4.2	51
4	7C11-01C00600-U0BK8-00	6	7	0.8	4.8	71
5	7C11-01C01000-U0BK8-00	10	7	1.0	6.1	119
6	7C11-01C01600-U0BK8-00	16	7	1.0	7.2	170
7	7C11-01C02500-U0BK8-00	25	7	1.2	8.9	285
8	7C11-01C03500-U0BK8-00	35	7	1.2	10.1	380
9	7C11-01C05000-U0BK8-00	50	19	1.4	11.8	509
10	7C11-01C07000-U0BK8-00	70	19	1.4	13.6	720
11	7C11-01C09500-U0BK8-00	95	19	1.6	16.0	990
12	7C11-01C12000-U0BK8-00	120	37	1.6	17.6	1227
13	7C11-01C15000-U0BK8-00	150	37	1.8	19.5	1510
14	7C11-01C18500-U0BK8-00	185	37	2.0	21.8	1890
15	7C11-01C24000-U0BK8-00	240	37	2.2	24.4	2385
16	7C11-01C30000-U0BK8-00	300	61	2.4	27.2	2990
17	7C11-01C40000-U0BK8-00	400	61	2.6	30.2	3750
18	7C11-01C50000-U0BK8-00	500	61	2.8	34.0	4750
19	7C11-01C63000-U0BK8-00	630	91	2.8	38.0	6100
20	7C11-01C80000-U0BK8-00	800	91	2.8	42.7	7900
21	7C11-1C100000-U0BK8-00	1000	91	3.0	47.6	9900

### TABLE:

Compacted Circular Conductor:



SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7CD1-01C01600-U0BK8-00	16	7	1.0	6.6	165
2	7CD1-01C02500-U0BK8-00	25	7	1.2	8.2	265
3	7CD1-01C03500-U0BK8-00	35	7	1.2	9.3	355
4	7CD1-01C05000-U0BK8-00	50	7	1.4	11.0	485
5	7CD1-01C07000-U0BK8-00	70	19	1.4	12.6	675
6	7CD1-01C09500-U0BK8-00	95	19	1.6	14.8	935
7	7CD1-01C12000-U0BK8-00	120	19	1.6	16.2	1165
8	7CD1-01C15000-U0BK8-00	150	19	1.8	18.1	1420
9	7CD1-01C18500-U0BK8-00	185	37	2.0	20.1	1785
10	7CD1-01C24000-U0BK8-00	240	37	2.2	22.7	2335
11	7CD1-01C30000-U0BK8-00	300	37	2.4	25.3	2890
12	7CD1-01C40000-U0BK8-00	400	61	2.6	28.8	3695
13	7CD1-01C50000-U0BK8-00	500	61	2.8	32.0	4715
14	7CD1-01C63000-U0BK8-00	630	61	2.8	35.5	6060
15	7CD1-01C80000-U0BK8-00	800	61	2.8	39.3	7850
16	7CD1-1C100000-U0BK8-00	1000	61	3.0	44.3	9845

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

**Special Features:** These cables are also available with rated Temperature 105°C according to UL\CSA standards.

\*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

## FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text (Example)	MESC 0.5mm <sup>2</sup> CU/PVC 300/500V H05V-K BS EN 50525-2-31 60227 IEC 06 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500V
Flame Retardant	IEC 60332-1-2

### TABLE;

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5181-01C00050-U0BK8-00	0.5	0.6	2.2	9
2	5181-01C00075-U0BK8-00	0.75	0.6	2.4	12
3	5181-01C00100-U0BK8-00	1.0	0.6	2.6	15

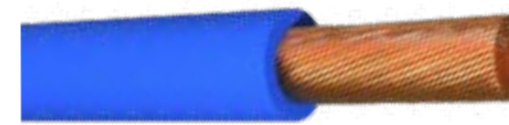
**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.  
The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

## FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text (Example)	MESC 1.5mm <sup>2</sup> CU/PVC 450/750 V H07V-K BS EN 50525-2-31 60227 IEC 02 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	450/750V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5181-01C00150-U0BK8-00	1.5	0.7	3.0	21
2	5181-01C00250-U0BK8-00	2.5	0.8	3.6	33
3	5181-01C00400-U0BK8-00	4	0.8	4.2	49
4	5181-01C00600-U0BK8-00	6	0.8	4.8	69
5	5181-01C01000-U0BK8-00	10	1.0	6.1	116
6	5181-01C01600-U0BK8-00	16	1.0	7.5	173
7	5181-01C02500-U0BK8-00	25	1.2	9.6	266
8	5181-01C03500-U0BK8-00	35	1.2	10.9	364
9	5181-01C05000-U0BK8-00	50	1.4	13.0	520
10	5181-01C07000-U0BK8-00	70	1.4	15.2	725
11	5181-01C09500-U0BK8-00	95	1.6	17.4	925
12	5181-01C12000-U0BK8-00	120	1.6	19.2	1175
13	5181-01C15000-U0BK8-00	150	1.8	21.5	1475
14	5181-01C18500-U0BK8-00	185	2.0	24.0	1850
15	5181-01C24000-U0BK8-00	240	2.2	27.1	2385

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.  
The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.

## FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 3 Rated 90°C as per BS EN 50363-3.
Printing Text (Example)	MESC 0.5mm <sup>2</sup> CU/PVC 300/500V H05V2-K BS EN 50525-2-31 60227 IEC 08 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	300/500V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5C81-01C00050-U0BK8-00	0.5	0.6	2.2	9
2	5C81-01C00075-U0BK8-00	0.75	0.6	2.4	12
3	5C81-01C00100-U0BK8-00	1.0	0.6	2.6	15

**Available Colors:** : "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

Special Features: These cables are also available with rated Temperature 105°C according to UL\CSA standards

\*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.



## FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-2-31 & IEC 60227-3



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228
Insulation	PVC Type TI 3 Rated 90°C as per BS EN 50363-3.
Printing Text (Example)	MESC 1.5mm <sup>2</sup> CU/PVC 450/750 V H07V2-K BS EN 50525-2-31 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	450/750V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5C81-01C00150-U0BK8-00	1.5	0.7	3.0	21
2	5C81-01C00250-U0BK8-00	2.5	0.8	3.6	33
3	5C81-01C00400-U0BK8-00	4	0.8	4.2	49
4	5C81-01C00600-U0BK8-00	6	0.8	4.8	69
5	5C81-01C01000-U0BK8-00	10	1.0	6.1	116
6	5C81-01C01600-U0BK8-00	16	1.0	7.5	173
7	5C81-01C02500-U0BK8-00	25	1.2	9.6	266
8	5C81-01C03500-U0BK8-00	35	1.2	10.9	364
9	5C81-01C05000-U0BK8-00	50	1.4	13.0	520
10	5C81-01C07000-U0BK8-00	70	1.4	15.2	725
11	5C81-01C09500-U0BK8-00	95	1.6	17.4	925
12	5C81-01C12000-U0BK8-00	120	1.6	19.2	1175
13	5C81-01C15000-U0BK8-00	150	1.8	21.5	1475
14	5C81-01C18500-U0BK8-00	185	2.0	24.0	1850
15	5C81-01C24000-U0BK8-00	240	2.2	27.1	2385

**Available Colors:** : "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

Special Features: These cables are also available with rated Temperature 105°C according to UL\CSA standards.

\*BSEN 50252-2-31 includes sizes from 1.5 to 35 sqmm.

The sizes above 35 sqmm shall be 'GEN TO BSEN 50525-2-31'.



## HALOGEN FREE CROSSLINKED INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-3-41



### APPLICATION

These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for fixed installation inside appliances, switch gear and control gear, where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per IEC 60228
Insulation	Flame Retardant Zero Halogen Cross-linked Compound Type EI-5 as per BSEN50363-5
Printing Text (Example)	MESC 1.5mm <sup>2</sup> CU/HFFR XLPE 450/750 V H07Z-R BS EN 50525-3-41 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	450/750V
Flame Retardant	IEC 60332-1-2
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)
Halogen Acid	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)

### TABLE:

Non-Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	711X-01C00150-U0BK8-00	1.5	7	0.7	3.1	20
2	711X-01C00250-U0BK8-00	2.5	7	0.8	3.7	30
3	711X-01C00400-U0BK8-00	4	7	0.8	4.2	48
4	711X-01C00600-U0BK8-00	6	7	0.8	4.8	68
5	711X-01C01000-U0BK8-00	10	7	1.0	6.1	115
6	711X-01C01600-U0BK8-00	16	7	1.0	7.2	160
7	711X-01C02500-U0BK8-00	25	7	1.2	8.9	275
8	711X-01C03500-U0BK8-00	35	7	1.2	10.1	370
9	711X-01C05000-U0BK8-00	50	19	1.4	11.8	498
10	711X-01C07000-U0BK8-00	70	19	1.4	13.6	708
11	711X-01C09500-U0BK8-00	95	19	1.6	16.0	978
12	711X-01C12000-U0BK8-00	120	37	1.6	17.6	1218
13	711X-01C15000-U0BK8-00	150	37	1.8	19.5	1500
14	711X-01C18500-U0BK8-00	185	37	2.0	21.8	1880
15	711X-01C24000-U0BK8-00	240	37	2.2	24.4	2375
16	711X-01C30000-U0BK8-00	300	61	2.4	27.2	2975
17	711X-01C40000-U0BK8-00	400	61	2.6	30.2	3740
18	711X-01C50000-U0BK8-00	500	61	2.8	34.0	4735
19	711X-01C63000-U0BK8-00	630	91	2.8	38.0	6085
20	711X-01C80000-U0BK8-00	800	91	2.8	42.7	7880

## HALOGEN FREE CROSSLINKED INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS EN 50525-3-41

### TABLE:

Compacted Circular Conductor:



SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	71DX-01C01600-U0BK8-00	16	7	1.0	6.6	160
2	71DX-01C02500-U0BK8-00	25	7	1.2	8.2	260
3	71DX-01C03500-U0BK8-00	35	7	1.2	9.3	350
4	71DX-01C05000-U0BK8-00	50	7	1.4	11.0	480
5	71DX-01C07000-U0BK8-00	70	19	1.4	12.6	670
6	71DX-01C09500-U0BK8-00	95	19	1.6	14.8	930
7	71DX-01C12000-U0BK8-00	120	19	1.6	16.2	1155
8	71DX-01C15000-U0BK8-00	150	19	1.8	18.1	1410
9	71DX-01C18500-U0BK8-00	185	37	2.0	20.1	1775
10	71DX-01C24000-U0BK8-00	240	37	2.2	22.7	2320
11	71DX-01C30000-U0BK8-00	300	37	2.4	25.3	2870
12	71DX-01C40000-U0BK8-00	400	61	2.6	28.8	3680
13	71DX-01C50000-U0BK8-00	500	61	2.8	32.0	4700
14	71DX-01C63000-U0BK8-00	630	61	2.8	35.5	6045
15	71DX-01C80000-U0BK8-00	800	61	2.8	39.3	7830
16	71DX-1C100000-U0BK8-00	1000	61	3.0	44.3	9830

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*BSEN 50525-3-41 includes sizes from 1.5 to 630 sqmm.

The sizes above 630 sqmm shall be 'GEN TO BSEN 50525-3-41'.

## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE BU)



### APPLICATION

These cables are useful for use in domestic premises, kitchens and offices for light duties for light portable appliances. Not suitable for cooking or heating appliances.

### CONSTRUCTION

Conductor	Plain solid annealed copper class 1 as per BS EN 60228.
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text (Example)	Example: TYPE BU 1.5 600/1000V MESC YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	600/1000V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7A61-01C00100-U0BK8-00	1.0	1	0.8	2.8	17
2	7A61-01C00150-U0BK8-00	1.5	1	0.8	3.1	22
3	7A61-01C00250-U0BK8-00	2.5	1	0.8	3.5	33

## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE BR)



### APPLICATION

These cables are useful for use in domestic premises, kitchens and offices for light duties for light portable appliances. These cables can be used in applications where extra flexibility is required provided there is no danger of damage. Not suitable for cooking or heating appliances.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per BS EN 60228.
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text (Example)	Example: TYPE BR 1.5 600/1000V MESC YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	600/1000V
Flame Retardant	IEC 60332-1-2

### TABLE:

Non-Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7A11-01C00100-U0BK8-00	1.0	7	0.8	2.9	18
2	7A11-01C00150-U0BK8-00	1.5	7	0.8	3.1	22
3	7A11-01C00250-U0BK8-00	2.5	7	0.8	3.7	34
4	7A11-01C00400-U0BK8-00	4	7	0.8	4.2	51
5	7A11-01C00600-U0BK8-00	6	7	0.8	4.8	71
6	7A11-01C01000-U0BK8-00	10	7	1.0	6.1	119
7	7A11-01C01600-U0BK8-00	16	7	1.0	7.2	170
8	7A11-01C02500-U0BK8-00	25	7	1.2	8.9	285
9	7A11-01C03500-U0BK8-00	35	7	1.2	10.1	380
10	7A11-01C05000-U0BK8-00	50	19	1.4	11.8	509
11	7A11-01C07000-U0BK8-00	70	19	1.4	13.6	720
12	7A11-01C09500-U0BK8-00	95	19	1.6	16.0	990
13	7A11-01C12000-U0BK8-00	120	37	1.6	17.6	1227
14	7A11-01C15000-U0BK8-00	150	37	1.8	19.5	1510
15	7A11-01C18500-U0BK8-00	185	37	2.0	21.8	1890
16	7A11-01C24000-U0BK8-00	240	37	2.2	24.4	2385

**TABLE:**  
Compacted Circular Conductor:



SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7AD1-01C01600-U0BK8-00	16	7	1.0	6.6	165
2	7AD1-01C02500-U0BK8-00	25	7	1.2	8.2	265
3	7AD1-01C03500-U0BK8-00	35	7	1.2	9.3	355
4	7AD1-01C05000-U0BK8-00	50	7	1.4	11.0	485
5	7AD1-01C07000-U0BK8-00	70	19	1.4	12.6	675
6	7AD1-01C09500-U0BK8-00	95	19	1.6	14.8	935
7	7AD1-01C12000-U0BK8-00	120	19	1.6	16.2	1165
8	7AD1-01C15000-U0BK8-00	150	19	1.8	18.1	1420
9	7AD1-01C18500-U0BK8-00	185	37	2.0	20.1	1785
10	7AD1-01C24000-U0BK8-00	240	37	2.2	22.7	2335

**Available Colors:** :: "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE CU)



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers

### CONSTRUCTION

#### Conductor

Plain solid annealed copper class 1 as per BS EN 60228.

#### Insulation

PVC Type TI 3 Rated 90°C as per BS EN 50363-3.

#### Printing Text (Example)

Example: TYPE CU 1.5 HEAT RESISTING 90 600/1000V MESC YEAR

### TECHNICAL DATA:

#### Operating Temperature

-15°C to 90°C

#### Voltage Rating

600/1000V

#### Flame Retardant

IEC 60332-1-2

**TABLE:**

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7B61-01C00100-U0BK8-00	1.0	1	0.8	2.8	17
2	7B61-01C00150-U0BK8-00	1.5	1	0.8	3.1	22
3	7B61-01C00250-U0BK8-00	2.5	1	0.8	3.5	33



## PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: GEN. TO BS 6231 (TYPE CR)



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per BS EN 60228.
Insulation	PVC Type TI 3 Rated 90°C as per BS EN 50363-3.
Printing Text (Example)	Example: TYPE CR 1.5 HEAT RESISTING 90 600/1000V MESC YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000V
Flame Retardant	IEC 60332-1-2

### TABLE:

Non - Compacted Circular Conductor:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7B11-01C00100-U0BK8-00	1.0	7	0.8	2.9	18
2	7B11-01C00150-U0BK8-00	1.5	7	0.8	3.1	22
3	7B11-01C00250-U0BK8-00	2.5	7	0.8	3.7	34
4	7B11-01C00400-U0BK8-00	4	7	0.8	4.2	51
5	7B11-01C00600-U0BK8-00	6	7	0.8	4.8	71
6	7B11-01C01000-U0BK8-00	10	7	1.0	7.2	119
7	7B11-01C01600-U0BK8-00	16	7	1.0	7.2	170
8	7B11-01C02500-U0BK8-00	25	7	1.2	8.9	285
9	7B11-01C03500-U0BK8-00	35	7	1.2	10.1	380
10	7B11-01C05000-U0BK8-00	50	19	1.4	11.8	509
11	7B11-01C07000-U0BK8-00	70	19	1.4	13.6	720
12	7B11-01C09500-U0BK8-00	95	19	1.6	16.0	990
13	7B11-01C12000-U0BK8-00	120	37	1.6	17.6	1227
14	7B11-01C15000-U0BK8-00	150	37	1.8	19.5	1510
15	7B11-01C18500-U0BK8-00	185	37	2.0	21.8	1890
16	7B11-01C24000-U0BK8-00	240	37	2.2	24.4	2385

### TABLE:

Compacted Circular Conductor:



SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7BD1-01C01600-U0BK8-00	16	7	1.0	6.6	165
2	7BD1-01C02500-U0BK8-00	25	7	1.2	8.2	265
3	7BD1-01C03500-U0BK8-00	35	7	1.2	9.3	355
4	7BD1-01C05000-U0BK8-00	50	7	1.4	11.0	485
5	7BD1-01C07000-U0BK8-00	70	19	1.4	12.6	675
6	7BD1-01C09500-U0BK8-00	95	19	1.6	14.8	935
7	7BD1-01C12000-U0BK8-00	120	19	1.6	16.2	1165
8	7BD1-01C15000-U0BK8-00	150	19	1.8	18.1	1420
9	7BD1-01C18500-U0BK8-00	185	37	2.0	20.1	1785
10	7BD1-01C24000-U0BK8-00	240	37	2.2	22.7	2335

**Available Colors:** : "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS 6231 TYPE BK



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 1 Rated 70°C as per BS EN 50363-3.
Printing Text (Example)	MESC 1.5mm <sup>2</sup> CU/PVC 600/1000 V TYPE BK BS 6231 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	600/1000 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5B81-01C00050-U0BK8-00	0.5	0.8	2.6	13
2	5B81-01C00075-U0BK8-00	0.75	0.8	2.8	17
3	5B81-01C00100-U0BK8-00	1.0	0.8	3.0	20
4	5B81-01C00150-U0BK8-00	1.5	0.8	3.2	24
5	5B81-01C00250-U0BK8-00	2.5	0.8	3.7	35
6	5B81-01C00400-U0BK8-00	4	0.8	4.2	51
7	5B81-01C00600-U0BK8-00	6	0.8	4.8	71
8	5B81-01C01000-U0BK8-00	10	1.0	6.2	119
9	5B81-01C01600-U0BK8-00	16	1.0	7.6	179
10	5B81-01C02500-U0BK8-00	25	1.2	9.7	277
11	5B81-01C03500-U0BK8-00	35	1.2	11.1	375
12	5B81-01C05000-U0BK8-00	50	1.4	13.1	535
13	5B81-01C07000-U0BK8-00	70	1.4	15.3	755
14	5B81-01C09500-U0BK8-00	95	1.6	17.5	950
15	5B81-01C12000-U0BK8-00	120	1.6	19.3	1195
16	5B81-01C15000-U0BK8-00	150	1.8	21.6	1505
17	5B81-01C18500-U0BK8-00	185	2.0	24.1	1865
18	5B81-01C24000-U0BK8-00	240	2.2	27.2	2400

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## FLEX PVC INSULATED NON SHEATHED SINGLE CORE CABLE

SPECIFICATION: BS 6231 TYPE CK (\*TRI-RATED CABLE)



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC rated 105°C.
Printing Text (Example)	<b>TYPE CK</b> MESC 1.5mm <sup>2</sup> CU/PVC 600/1000 V TYPE CK HEAT RESISTING 90 BS 6231 YEAR <b>TRI-RATED</b> MESC TRI-RATED PANEL WIRE CU/PVC 1.5 SQMM GEN TO BS 6231 105C 600/1000V YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 V
Flame Retardant	IEC 60332-1-2

### TABLE:

TYPE CK

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5781-01C00050-U0BK8-00	0.5	0.8	2.6	13
2	5781-01C00075-U0BK8-00	0.75	0.8	2.8	17
3	5781-01C00100-U0BK8-00	1.0	0.8	3.0	20
4	5781-01C00150-U0BK8-00	1.5	0.8	3.2	24
5	5781-01C00250-U0BK8-00	2.5	0.8	3.7	35
6	5781-01C00400-U0BK8-00	4	0.8	4.2	51
7	5781-01C00600-U0BK8-00	6	0.8	4.8	71
8	5781-01C01000-U0BK8-00	10	1.0	6.2	119
9	5781-01C01600-U0BK8-00	16	1.0	7.6	179
10	5781-01C02500-U0BK8-00	25	1.2	9.7	277
11	5781-01C03500-U0BK8-00	35	1.2	11.1	375
12	5781-01C05000-U0BK8-00	50	1.4	13.1	535
13	5781-01C07000-U0BK8-00	70	1.4	15.3	755
14	5781-01C09500-U0BK8-00	95	1.6	17.5	950
15	5781-01C12000-U0BK8-00	120	1.6	19.3	1195
16	5781-01C15000-U0BK8-00	150	1.8	21.6	1505
17	5781-01C18500-U0BK8-00	185	2.0	24.1	1865
18	5781-01C24000-U0BK8-00	240	2.2	27.2	2400

**TABLE:**

TRI-RATED CABLE



SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5D81-01C00050-U0BK8-00	0.5	0.8	2.6	13
2	5D81-01C00075-U0BK8-00	0.75	0.8	2.8	17
3	5D81-01C00100-U0BK8-00	1.0	0.8	3.0	20
4	5D81-01C00150-U0BK8-00	1.5	0.8	3.2	24
5	5D81-01C00250-U0BK8-00	2.5	0.8	3.7	35
6	5D81-01C00400-U0BK8-00	4	0.8	4.2	51
7	5D81-01C00600-U0BK8-00	6	0.8	4.8	71
8	5D81-01C01000-U0BK8-00	10	1.0	6.2	119
9	5D81-01C01600-U0BK8-00	16	1.0	7.6	179
10	5D81-01C02500-U0BK8-00	25	1.2	9.7	277
11	5D81-01C03500-U0BK8-00	35	1.2	11.1	375
12	5D81-01C05000-U0BK8-00	50	1.4	13.1	535
13	5D81-01C07000-U0BK8-00	70	1.4	15.3	755
14	5D81-01C09500-U0BK8-00	95	1.6	17.5	950
15	5D81-01C12000-U0BK8-00	120	1.6	19.3	1195
16	5D81-01C15000-U0BK8-00	150	1.8	21.6	1505
17	5D81-01C18500-U0BK8-00	185	2.0	24.1	1865
18	5D81-01C24000-U0BK8-00	240	2.2	27.2	2400

**Available Colors:** "BK" = Black, "BL" = Blue, "BN" = Brown, "GN" = Green, "YL" = Yellow, "GY" = Grey, "OR" = Orange, "PK" = Pink, "RD" = Red, "TR" = Turquoise, "VT" = Violet, "WT" = White, "YN" = Yellow/Green and "YG" = Green/Yellow.

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*Special Features: TYPE CK cables are also known as TRI-RATED cables, according to UL\CSA standards.

**MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE**  
 SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5

**APPLICATION**

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

**CONSTRUCTION**

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type T1 2 Rated 70°C as per BS EN 50363-3.
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H03VV-F 3X0.5 MM2 CU/PVC/PVC 300/300V BS EN 50525-2-11 60227 IEC 52 YEAR

**TECHNICAL DATA:**

Operating Temperature	-15°C to 70°C
Voltage Rating	300/300 V
Flame Retardant	IEC 60332-1-2

**TABLE:**

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5381-02C00050-U0WT8-00	2	0.50	0.5	0.6	5.2	40
2	5381-02C00075-U0WT8-00	2	0.75	0.5	0.6	5.7	49
3	5381-03C00050-U0WT8-00	3	0.50	0.5	0.6	5.6	48
4	5381-03C00075-U0WT8-00	3	0.75	0.5	0.6	6.0	60
5	5381-04C00050-U0WT8-00	4	0.50	0.5	0.6	6.1	58
6	5381-04C00075-U0WT8-00	4	0.75	0.5	0.6	6.6	71

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*4-core cable printing shall not be mark with "60227 IEC 52".  
IEC 60227-5 standard is applicable for 2 & 3 core cables only.



## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5



### APPLICATION

These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens and offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 2 Rated 70°C as per BS EN 50363-3.
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H05VV-F 3X1.5MM2 CU/PVC/PVC 300/500V BS EN 50525-2-11 60227 IEC 53 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5481-02C00075-U0WT8-00	2	0.75	0.6	0.8	6.5	61
2	5481-02C00100-U0WT8-00	2	1.0	0.6	0.8	6.8	70
3	5481-02C00150-U0WT8-00	2	1.5	0.7	0.8	7.7	91
4	5481-02C00250-U0WT8-00	2	2.5	0.8	1.0	9.4	139
5	5481-02C00400-U0WT8-00	2	4.0	0.8	1.1	10.7	192
6	5481-03C00075-U0WT8-00	3	0.75	0.6	0.8	6.9	73
7	5481-03C00100-U0WT8-00	3	1.0	0.6	0.8	7.2	85
8	5481-03C00150-U0WT8-00	3	1.5	0.7	0.9	8.4	114
9	5481-03C00250-U0WT8-00	3	2.5	0.8	1.1	10.2	175
10	5481-03C00400-U0WT8-00	3	4.0	0.8	1.2	11.5	240
11	5481-04C00075-U0WT8-00	4	0.75	0.6	0.8	7.5	91
12	5481-04C00100-U0WT8-00	4	1.0	0.6	0.9	8.1	106
13	5481-04C00150-U0WT8-00	4	1.5	0.7	1.0	9.3	142
14	5481-04C00250-U0WT8-00	4	2.5	0.8	1.1	11.1	211
15	5481-04C00400-U0WT8-00	4	4.0	0.8	1.2	12.6	297
16	5481-05C00075-U0WT8-00	5	0.75	0.6	0.9	8.4	112
17	5481-05C00100-U0WT8-00	5	1.0	0.6	0.9	8.8	131
18	5481-05C00150-U0WT8-00	5	1.5	0.7	1.1	10.4	181
19	5481-05C00250-U0WT8-00	5	2.5	0.8	1.2	12.4	268
20	5481-05C00400-U0WT8-00	5	4.0	0.8	1.4	14.1	356

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: Adapted from BS EN 50525-2-11, VDE-0281 & VDE-0250



### APPLICATION

This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions, but not in the open air. Applications include machine tool manufacture, power stations, heating and air conditioning installations etc.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 2 Rated 70°C as per BS EN 50363-3.
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC 3X10 MM2 CU/PVC/PVC 450/750V GEN TO BS EN 50525-2-11 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	450/750 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5481-02C00600-U0WT8-00	2	6	0.8	1.1	11.7	240
2	5481-02C01000-U0WT8-00	2	10	1.0	1.1	14.4	380
3	5481-02C01600-U0WT8-00	2	16	1.0	1.2	17.4	560
4	5481-02C02500-U0WT8-00	2	25	1.2	1.4	22.0	870
5	5481-02C03500-U0WT8-00	2	35	1.2	1.5	24.9	1150
6	5481-03C00600-U0WT8-00	3	6	0.8	1.2	12.6	310
7	5481-03C01000-U0WT8-00	3	10	1.0	1.2	15.5	485
8	5481-03C01600-U0WT8-00	3	16	1.0	1.4	19.0	715
9	5481-03C02500-U0WT8-00	3	25	1.2	1.6	23.9	1115
10	5481-03C03500-U0WT8-00	3	35	1.2	1.6	26.8	1455
11	5481-04C00600-U0WT8-00	4	6	0.8	1.2	13.7	375
12	5481-04C01000-U0WT8-00	4	10	1.0	1.4	17.4	610
13	5481-04C01600-U0WT8-00	4	16	1.0	1.6	21.2	910
14	5481-04C02500-U0WT8-00	4	25	1.2	1.6	26.3	1390
15	5481-04C03500-U0WT8-00	4	35	1.2	1.6	29.5	1825
16	5481-05C00600-U0WT8-00	5	6	0.8	1.4	15.5	470
17	5481-05C01000-U0WT8-00	5	10	1.0	1.6	19.5	750
18	5481-05C01600-U0WT8-00	5	16	1.0	1.6	23.4	1105
19	5481-05C02500-U0WT8-00	5	25	1.2	1.6	29.1	1690
20	5481-05C03500-U0WT8-00	5	35	1.2	1.6	32.7	2225

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: GEN TO BS EN 50525-2-11 & IEC 60227-5



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 2 Rated 70°C as per BS EN 50363-3.
Core color	Two Core + Reduced Neutral Conductor: Blue, Brown & Green/Yellow.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 2 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H05VV-F 2CX1.0 + 0.75 MM2 CU/PVC/PVC 300/500V BS EN 50525-2-11 60227 IEC 53 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	INSULATION THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5481-2/500100-U0WT8-00	2C+E	1.0 +0.75	0.6 0.6	0.8	6.8	73
2	5481-2/500150-U0WT8-00	2C+E	1.5 +1.0	0.7 0.6	0.9	7.7	95
3	5481-2/500250-U0WT8-00	2C+E	2.5 +1.5	0.8 0.7	1.1	9.4	145
4	5481-2/500400-U0WT8-00	2C+E	4.0 +2.5	0.8 0.8	1.2	10.8	205
5	5481-2/500600-U0WT8-00	2C+E	6.0 +2.5	1.0 0.8	1.4	12.6	275

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 3 Rated 90°C as per BS EN 50363-3.
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H03V2V2-F 3X0.5 MM2 CU/PVC/PVC 300/300V BS EN 50525-2-11 60227 IEC 56 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	300/300 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5A81-02C00050-U0WT8-00	2	0.50	0.5	0.6	5.2	40
2	5A81-02C00075-U0WT8-00	2	0.75	0.5	0.6	5.7	49
3	5A81-03C00050-U0WT8-00	3	0.50	0.5	0.6	5.6	48
4	5A81-03C00075-U0WT8-00	3	0.75	0.5	0.6	6.0	60
5	5A81-04C00050-U0WT8-00	4	0.50	0.5	0.6	6.1	58
6	5A81-04C00075-U0WT8-00	4	0.75	0.5	0.6	6.6	71

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

Special Features: These cables are also available with rated Temperature 105°C according to UL/CSA standards

\*4-core cable printing shall not be mark with "60227 IEC 56".  
IEC 60227-5 standard is applicable for 2 & 3 core cables only.

# MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE

SPECIFICATION: BS EN 50525-2-11 & IEC 60227-5



## APPLICATION

These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens and offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts.

## CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type T1 3 Rated 90°C as per BS EN 50363-3.
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H05V2V2-F 3X1.5MM2 CU/PVC/PVC 300/500V BS EN 50525-2-11 60227 IEC 57 YEAR

## TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	300/500 V
Flame Retardant	IEC 60332-1-2

## TABLE:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5S81-02C00075-U0WT8-00	2	0.75	0.6	0.8	6.5	61
2	5S81-02C00100-U0WT8-00	2	1.0	0.6	0.8	6.8	70
3	5S81-02C00150-U0WT8-00	2	1.5	0.7	0.8	7.7	91
4	5S81-02C00250-U0WT8-00	2	2.5	0.8	1.0	9.4	139
5	5S81-02C00400-U0WT8-00	2	4.0	0.8	1.1	10.7	192
6	5S81-03C00075-U0WT8-00	3	0.75	0.6	0.8	6.9	73
7	5S81-03C00100-U0WT8-00	3	1.0	0.6	0.8	7.2	85
8	5S81-03C00150-U0WT8-00	3	1.5	0.7	0.9	8.4	114
9	5S81-03C00250-U0WT8-00	3	2.5	0.8	1.1	10.2	175
10	5S81-03C00400-U0WT8-00	3	4.0	0.8	1.2	11.5	240
11	5S81-04C00075-U0WT8-00	4	0.75	0.6	0.8	7.5	91
12	5S81-04C00100-U0WT8-00	4	1.0	0.6	0.9	8.1	106
13	5S81-04C00150-U0WT8-00	4	1.5	0.7	1.0	9.3	142
14	5S81-04C00250-U0WT8-00	4	2.5	0.8	1.1	11.1	211
15	5S81-04C00400-U0WT8-00	4	4.0	0.8	1.2	12.6	297
16	5S81-05C00075-U0WT8-00	5	0.75	0.6	0.9	8.4	112
17	5S81-05C00100-U0WT8-00	5	1.0	0.6	0.9	8.8	131
18	5S81-05C00150-U0WT8-00	5	1.5	0.7	1.1	10.4	181
19	5S81-05C00250-U0WT8-00	5	2.5	0.8	1.2	12.4	268
20	5S81-05C00400-U0WT8-00	5	4.0	0.8	1.4	14.1	356

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

**Special Features:** These cables are also available with rated Temperature 105°C according to UL\CSA standards.



## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE

SPECIFICATION: Adapted from VDE-0281 & VDE-0250



**APPLICATION** This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions, but not in the open air. Applications include machine tool manufacture, power stations, heating and air conditioning installations etc.

### CONSTRUCTION

<b>Conductor</b>	Plain annealed flexible copper class 5 as per IEC 60228.
<b>Insulation</b>	PVC Type TI 3 Rated 90°C as per BS EN 50363-3.
<b>Core color</b>	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black.
<b>Assembly</b>	Cores twisted together to make a round assembly with fillers wherever necessary.
<b>Outer Sheath</b>	PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
<b>Printing Text (Example)</b>	MESC 3X10 MM2 CU/PVC/PVC 450/750V GEN TO BS EN 50525-2-11 YEAR

### TECHNICAL DATA:

<b>Operating Temperature</b>	-15°C to 90°C
<b>Voltage Rating</b>	450/750 V
<b>Flame Retardant</b>	IEC 60332-1-2

### TABLE:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	5S81-02C00600-U0WT8-00	2	6	0.8	1.1	11.7	240
2	5S81-02C01000-U0WT8-00	2	10	1.0	1.1	14.4	380
3	5S81-02C01600-U0WT8-00	2	16	1.0	1.2	17.4	560
4	5S81-02C02500-U0WT8-00	2	25	1.2	1.4	22.0	870
5	5S81-02C03500-U0WT8-00	2	35	1.2	1.5	24.9	1150
6	5S81-03C00600-U0WT8-00	3	6	0.8	1.2	12.6	310
7	5S81-03C01000-U0WT8-00	3	10	1.0	1.2	15.5	485
8	5S81-03C01600-U0WT8-00	3	16	1.0	1.4	19.0	715
9	5S81-03C02500-U0WT8-00	3	25	1.2	1.6	23.9	1115
10	5S81-03C03500-U0WT8-00	3	35	1.2	1.6	26.8	1455
11	5S81-04C00600-U0WT8-00	4	6	0.8	1.2	13.7	375
12	5S81-04C01000-U0WT8-00	4	10	1.0	1.4	17.4	610
13	5S81-04C01600-U0WT8-00	4	16	1.0	1.6	21.2	910
14	5S81-04C02500-U0WT8-00	4	25	1.2	1.6	26.3	1390
15	5S81-04C03500-U0WT8-00	4	35	1.2	1.6	29.5	1825
16	5S81-05C00600-U0WT8-00	5	6	0.8	1.4	15.5	470
17	5S81-05C01000-U0WT8-00	5	10	1.0	1.6	19.5	750
18	5S81-05C01600-U0WT8-00	5	16	1.0	1.6	23.4	1105
19	5S81-05C02500-U0WT8-00	5	25	1.2	1.6	29.1	1690
20	5S81-05C03500-U0WT8-00	5	35	1.2	1.6	32.7	2225

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

**Special Features:** These cables are also available with rated Temperature 105°C according to UL/CSA standards

## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: GEN TO BS EN 50525-2-11 & IEC 60227-5



### APPLICATION

These cables are used for wiring of switch, control, metering, relay and instrument panels of power switchgear and for internal connections in rectifier equipment, motor starters and controllers.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC rated 105°C
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H03V2V2-F 3X0.5 MM2 CU/PVC/PVC 300/300V 105C GEN TO BS EN 50525-2-11 60227 IEC 56 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 105°C
Voltage Rating	300/300 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)
1	538B-02C00050-U0WT8-00	2	0.50	0.5	0.6	5.2	40
2	538B-02C00075-U0WT8-00	2	0.75	0.5	0.6	5.7	49
3	538B-03C00050-U0WT8-00	3	0.50	0.5	0.6	5.6	48
4	538B-03C00075-U0WT8-00	3	0.75	0.5	0.6	6.0	60
5	538B-04C00050-U0WT8-00	4	0.50	0.5	0.6	6.1	58
6	538B-04C00075-U0WT8-00	4	0.75	0.5	0.6	6.6	71

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

\*4-core cable printing shall not be mark with "60227 IEC 56".  
IEC 60227-5 standard is applicable for 2 & 3 core cables only.

## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: GEN TO BS EN 50525-2-11 & IEC 60227-5



### APPLICATION

These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens and offices. Suitable for washing machines, refrigerators etc. Can be used for cooking and heating appliances provided that the cable does not come in contact with the hot parts.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC rated 105°C
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, and Blue & Brown.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC H05V2V2-F 3X1.5MM2 CU/PVC/PVC 300/500V 105C GEN TO BS EN 50525-2-11 60227 IEC 57 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 105°C
Voltage Rating	300/300 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	548B-02C00075-U0WT8-00	2	0.75	0.6	0.8	6.5	61
2	548B-02C00100-U0WT8-00	2	1.0	0.6	0.8	6.8	70
3	548B-02C00150-U0WT8-00	2	1.5	0.7	0.8	7.7	91
4	548B-02C00250-U0WT8-00	2	2.5	0.8	1.0	9.4	139
5	548B-02C00400-U0WT8-00	2	4.0	0.8	1.1	10.7	192
6	548B-03C00075-U0WT8-00	3	0.75	0.6	0.8	6.9	73
7	548B-03C00100-U0WT8-00	3	1.0	0.6	0.8	7.2	85
8	548B-03C00150-U0WT8-00	3	1.5	0.7	0.9	8.4	114
9	548B-03C00250-U0WT8-00	3	2.5	0.8	1.1	10.2	175
10	548B-03C00400-U0WT8-00	3	4.0	0.8	1.2	11.5	240
11	548B-04C00075-U0WT8-00	4	0.75	0.6	0.8	7.5	91
12	548B-04C00100-U0WT8-00	4	1.0	0.6	0.9	8.1	106
13	548B-04C00150-U0WT8-00	4	1.5	0.7	1.0	9.3	142
14	548B-04C00250-U0WT8-00	4	2.5	0.8	1.1	11.1	211
15	548B-04C00400-U0WT8-00	4	4.0	0.8	1.2	12.6	297
16	548B-05C00075-U0WT8-00	5	0.75	0.6	0.9	8.4	112
17	548B-05C00100-U0WT8-00	5	1.0	0.6	0.9	8.8	131
18	548B-05C00150-U0WT8-00	5	1.5	0.7	1.1	10.4	181
19	548B-05C00250-U0WT8-00	5	2.5	0.8	1.2	12.4	268
20	548B-05C00400-U0WT8-00	5	4.0	0.8	1.4	14.1	356

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## MULTI CORE FLEXIBLE PVC INSULATED PVC SHEATHED CABLE SPECIFICATION: Adapted from VDE-0281 & VDE-0250



### APPLICATION

This flexible control cable is suitable for all electrical installations in dry or humid locations, under industrial conditions. Applications include machine tool manufacture, power stations, heating and air conditioning installations etc.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228
Insulation	PVC rated 105°C
Core color	Two Core: Blue & Brown. Three Core: Green/Yellow, Blue & Brown. Four Core: Green/Yellow, Black, and Blue & Brown. Five Core: Green/Yellow, Black, Blue, Brown & Black.
Assembly	Cores twisted together to make a round assembly with fillers wherever necessary.
Outer Sheath	PVC Type TM 3 as per BS EN 50363-4-1. Outer sheath color shall be White. Other colors are also available on request.
Printing Text (Example)	MESC 3X10 MM2 CU/PVC/PVC 450/750V 105C GEN TO BS EN 50525-2-11 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 105°C
Voltage Rating	450/750 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	548B-02C00600-U0WT8-00	2	6	0.8	1.1	11.7	240
2	548B-02C01000-U0WT8-00	2	10	1.0	1.1	14.4	380
3	548B-02C01600-U0WT8-00	2	16	1.0	1.2	17.4	560
4	548B-02C02500-U0WT8-00	2	25	1.2	1.4	22.0	870
5	548B-02C03500-U0WT8-00	2	35	1.2	1.5	24.9	1150
6	548B-03C00600-U0WT8-00	3	6	0.8	1.2	12.6	310
7	548B-03C01000-U0WT8-00	3	10	1.0	1.2	15.5	485
8	548B-03C01600-U0WT8-00	3	16	1.0	1.4	19.0	715
9	548B-03C02500-U0WT8-00	3	25	1.2	1.6	23.9	1115
10	548B-03C03500-U0WT8-00	3	35	1.2	1.6	26.8	1455
11	548B-04C00600-U0WT8-00	4	6	0.8	1.2	13.7	375
12	548B-04C01000-U0WT8-00	4	10	1.0	1.4	17.4	610
13	548B-04C01600-U0WT8-00	4	16	1.0	1.6	21.2	910
14	548B-04C02500-U0WT8-00	4	25	1.2	1.6	26.3	1390
15	548B-04C03500-U0WT8-00	4	35	1.2	1.6	29.5	1825
16	548B-05C00600-U0WT8-00	5	6	0.8	1.4	15.5	470
17	548B-05C01000-U0WT8-00	5	10	1.0	1.6	19.5	750
18	548B-05C01600-U0WT8-00	5	16	1.0	1.6	23.4	1105
19	548B-05C02500-U0WT8-00	5	25	1.2	1.6	29.1	1690
20	548B-05C03500-U0WT8-00	5	35	1.2	1.6	32.7	2225

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## PVC INSULATED PVC SHEATHED CABLE FLAT TWIN AND FLAT THREE CORE CABLE SPECIFICATION: BS 6004



### APPLICATION

These cables are used in dry or damp locations for fixed installation. Suitable for installation in walls, on boards or embedded in plaster.

### CONSTRUCTION

Conductor	Plain annealed copper as per class 1 or class 2 of IEC-60228.
Insulation	PVC Type TI 1 as per BS EN 50363-3. Two or Three insulated cores laid parallel and sheathed.
Core color	Twin core: Red & Black. Three core: Red, Yellow (Centre core) and Blue.
Outer Sheath	PVC Type TM-1 as per BS EN 50363-4.1. Outer Sheath color shall be Grey. Other color are also available on request.
Printing Text (Example)	TWIN FLAT- MESC FLAT TWIN CU/PVC/PVC 2CX1.5MM2 300/500V YEAR FLAT THREE CORE - MESC FLAT THREE CORE CU/PVC/PVC 3CX1.5MM2 300/500V YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	CONDUCTOR CROSS SECTIONAL AREA (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. WEIGHT (kg/km)
1	7561-02C00100-U0GY8-00	2	1.0	1	0.6	0.9	6.8 X 4.4	53
2	7561-02C00150-U0GY8-00	2	1.5	1	0.7	0.9	7.7 X 4.8	70
3	7561-02C00250-U0GY8-00	2	2.5	1	0.8	0.9	8.9 X 5.4	100
4	7561-02C00400-U0GY8-00	2	4	1	0.8	1.0	10.1 X 6.1	139
5	7561-02C00600-U0GY8-00	2	6	1	0.8	1.0	11.1 X 6.6	185
6	7511-02C00150-U0GY8-00	2	1.5	7	0.7	0.9	8.1 X 5.0	76
7	7511-02C00250-U0GY8-00	2	2.5	7	0.8	1.0	9.5 X 5.9	110
8	7511-02C00400-U0GY8-00	2	4	7	0.8	1.0	10.7 X 6.4	148
9	7511-02C00600-U0GY8-00	2	6	7	0.8	1.1	12.0 X 7.2	201
10	7511-02C01000-U0GY8-00	2	10	7	1.0	1.2	14.9 X 8.8	319
11	7511-02C01600-U0GY8-00	2	16	7	1.0	1.3	17.3 X 10.1	461
12	7561-03C00100-U0GY8-00	3	1.0	1	0.6	0.9	9.2 X 4.4	76
13	7561-03C00150-U0GY8-00	3	1.5	1	0.7	0.9	10.5 X 4.8	102
14	7561-03C00250-U0GY8-00	3	2.5	1	0.8	1.0	12.6 X 5.7	152
15	7511-03C00400-U0GY8-00	3	4	7	0.8	1.1	15.1 X 6.7	224
16	7511-03C00600-U0GY8-00	3	6	7	0.8	1.1	16.8 X 7.2	296
17	7511-03C01000-U0GY8-00	3	10	7	1.0	1.2	21.1 X 8.8	474
18	7511-03C01600-U0GY8-00	3	16	7	1.0	1.3	24.5 X 10.1	686

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.



## PVC INSULATED PVC SHEATHED FLAT CABLES

SPECIFICATION: BS 6004



### APPLICATION

These cables are used in dry or damp locations for fixed installation. Suitable for installation in walls, on boards or embedded in plaster.

### CONSTRUCTION

Conductor	Plain annealed stranded copper class 2 as per IEC 60228
Insulation	Flame retardant PVC
Color Code	Blue & Black.
Outer Sheath	Two insulated cores laid in parallel with suitable distance between each core and extruded with Black colored PVC.
Printing Text (Example)	MESC FLAT CABLE 2CX4MM2 BS 6004 YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	APPROX. OVERALL DIMENSION		APPROX. CABLE WEIGHT (kg/km)
				Minor (mm)	Major (mm)	
1	7511-02C00050-U0BK8-FB-09	0.5	7	3.5	9.03	42
2	7511-02C00075-U0BK8-FB-09	0.75	7	3.71	9.57	50
3	7511-02C00100-U0BK8-FB-09	1.0	7	4.08	10.54	62
4	7511-02C00150-U0BK8-FB-09	1.5	7	4.52	11.66	79
5	7511-02C00250-U0BK8-FB-09	2.5	7	4.94	12.75	103
6	7511-02C00400-U0BK8-FB-09	4.0	7	5.86	15.13	152

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## PVC INSULATED PVC SHEATHED FLAT CABLES WITH EARTH CONTINUITY (E.C.C)

SPECIFICATION: BS 6004



### APPLICATION

Mainly for domestic and industrial wiring where, there is little risk of mechanical damage.

### CONSTRUCTION

Conductor	Plain annealed copper as per IEC 60228.
Insulation	PVC Type T1 1 as per BS EN 50363-3. Two Cores laid parallel with bare ECC at center and sheathed.
Color Code	Blue & Brown.
Outer Sheath	PVC Type TM-1 as per BS EN 50363-4.1. Outer Sheath color shall be Grey. Other color are also available on request.
Printing Text (Example)	MESC FLAT TWIN CU/PVC/PVC 2CX1.5 MM2 + 1.0MM2 ECC 300/500V YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/500V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	CLASS OF CONDUCTOR	ECC Area (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. Lower Limit (mm)	APPROX. OVERALL DIA. Upper Limit (mm)	APPROX. CABLE WEIGHT (kg/km)
1	7561-02C00150-U0GY8-EC	1.5	1	1.0	0.7	0.9	4.2x8.0	5.0x9.2	100
2	7561-02C00250-U0GY8-EC	2.5	1	1.5	0.7	1.0	5.2x9.6	6.0x11.2	145
3	7511-02C00400-U0GY8-EC	4.0	2	1.5	0.8	1.0	5.7x10.8	6.9x13.1	180
4	7511-02C00600-U0GY8-EC	6.0	2	2.5	0.8	1.1	6.4x12.4	7.8x15.0	255

Packing: Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## PVC INSULATED FLAT SPEAKER CABLE

SPECIFICATION: GEN TO BS 6004



**APPLICATION** The cables are intended for the connection of domestic appliances and speaker to the fixed supply.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	PVC Type TI 1 to EN 50363-3.
Color Code	1-RED & 2-WHITE
Cable Construction	Two Conductors laid parallel.
Printing Text (Example)	MESC SPEAKER CABLE 2X2.5 MM2 CU/PVC YEAR

### TECHNICAL DATA:

Operating Temperature	-15°C to 70°C
Voltage Rating	300/300 V
Flame Retardant	IEC 60332-1-2

### TABLE:

SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (mm)	OVERALL DIMENSIONS Nominal Limit (H X W) (mm)	APPROX. WEIGHT (kg/km)
1	5281-02C00050-U0RD8-HH-07	2C	0.5	0.8	2.5x5.2	25
2	5281-02C00075-U0RD8-HH-07	2C	0.75	0.8	2.7x5.5	30
3	5281-02C00100-U0RD8-HH-07	2C	1.0	0.8	2.9x5.8	35
4	5281-02C00150-U0RD8-HH-07	2C	1.5	0.8	3.1x6.3	45
5	5281-02C00250-U0RD8-HH-07	2C	2.5	1.0	4.0x8.0	70

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet.

## LV POWER, SINGLE & MULTI CORE, UNARMoured CABLE

CU/XLPE/PVC  
SPECIFICATION: BS 7889



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays or conduits in the power and switching station, local distribution system, industrial plant and commercial building.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	1C: Black 2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling**	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath***	Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/PVC 600/1000V BS 7889 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Applicable only for Multi-Core cables.

\*\*\* Other sheath color available on request.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

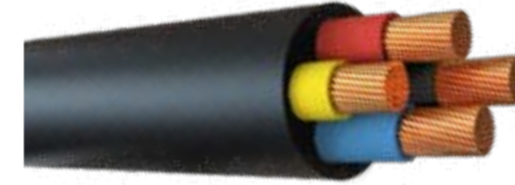
**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-01C00150-U0BK8-NE*	1C	1.5	7	0.7	1.4	1.09	5.8	50	14
2	7614-01C00250-U0BK8-NE*	1C	2.5	7	0.7	1.4	1.09	6.2	61	15
3	7614-01C00400-U0BK8-NE*	1C	4	7	0.7	1.4	1.09	6.7	75	16
4	7614-01C00600-U0BK8-NE*	1C	6	7	0.7	1.4	1.09	7.3	100	18
5	7614-01C01000-U0BK8-NE*	1C	10	7	0.7	1.4	1.09	8.3	150	21
6	76D4-01C01600-U0BK8-NE	1C	16	7	0.7	1.4	1.09	8.9	205	23
7	76D4-01C02500-U0BK8-NE	1C	25	7	0.9	1.4	1.09	10.5	300	28
8	76D4-01C03500-U0BK8-NE	1C	35	7	0.9	1.4	1.09	11.6	400	31
9	76D4-01C05000-U0BK8-NE	1C	50	19	1.0	1.4	1.09	13.1	525	36
10	76D4-01C07000-U0BK8-NE	1C	70	19	1.1	1.4	1.09	14.9	725	42
11	76D4-01C09500-U0BK8-NE	1C	95	19	1.1	1.5	1.18	16.7	970	47
12	76D4-01C12000-U0BK8-NE	1C	120	19	1.2	1.5	1.18	18.3	1215	55
13	76D4-01C15000-U0BK8-NE	1C	150	19	1.4	1.6	1.26	20.5	1500	66
14	76D4-01C18500-U0BK8-NE	1C	185	37	1.6	1.6	1.26	22.5	1835	73
15	76D4-01C24000-U0BK8-NE	1C	240	37	1.7	1.7	1.35	25.1	2385	87
16	76D4-01C30000-U0BK8-NE	1C	300	37	1.8	1.8	1.43	27.6	2950	102
17	76D4-01C40000-U0BK8-NE	1C	400	61	2.0	1.9	1.52	31.4	3775	123
18	76D4-01C50000-U0BK8-NE	1C	500	61	2.2	2.0	1.60	34.8	4800	144
19	76D4-01C63000-U0BK8-NE	1C	630	61	2.4	2.2	1.77	39.1	6200	178
20	76D4-01C80000-U0BK8-NE	1C	800	61	2.6	2.3	1.86	43.5	8100	208
21	76D4-1C100000-U0BK8-NE	1C	1000	61	2.8	2.4	1.94	48.7	10125	244
22	7614-01C80000-U0BK8-NE*	1C	800	91	2.6	2.3	1.86	46.9	8150	226
23	7614-1C100000-U0BK8-NE*	1C	1000	91	2.8	2.4	1.94	52.0	10200	262

\*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:

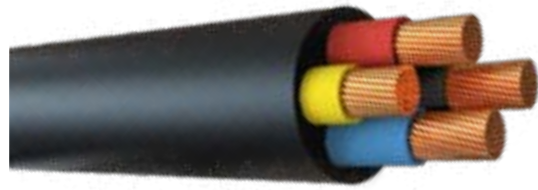


SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-NE	2C	1.5	7	0.7	1.8	1.43	9.8	110	32
2	7614-02C00250-U0BK8-NE	2C	2.5	7	0.7	1.8	1.43	10.6	135	35
3	7614-02C00400-U0BK8-NE	2C	4	7	0.7	1.8	1.43	11.6	175	39
4	7614-02C00600-U0BK8-NE	2C	6	7	0.7	1.8	1.43	12.8	230	43
5	7614-02C01000-U0BK8-NE	2C	10	7	0.7	1.8	1.43	14.7	325	51
6	7614-03C00150-U0BK8-NE	3C	1.5	7	0.7	1.8	1.43	10.3	140	34
7	7614-03C00250-U0BK8-NE	3C	2.5	7	0.7	1.8	1.43	11.2	175	37
8	7614-03C00400-U0BK8-NE	3C	4	7	0.7	1.8	1.43	12.3	230	42
9	7614-03C00600-U0BK8-NE	3C	6	7	0.7	1.8	1.43	13.4	300	46
10	7614-03C01000-U0BK8-NE	3C	10	7	0.7	1.8	1.43	15.6	440	55
11	7614-04C00150-U0BK8-NE	4C	1.5	7	0.7	1.8	1.43	11.0	165	36
12	7614-04C00250-U0BK8-NE	4C	2.5	7	0.7	1.8	1.43	12.1	210	41
13	7614-04C00400-U0BK8-NE	4C	4	7	0.7	1.8	1.43	13.3	280	45
14	7614-04C00600-U0BK8-NE	4C	6	7	0.7	1.8	1.43	14.7	375	51
15	7614-04C01000-U0BK8-NE	4C	10	7	0.7	1.8	1.43	17.0	550	60
16	7614-05C00150-U0BK8-NE-02	5C	1.5	7	0.7	1.8	1.43	11.9	190	40
17	7614-05C00250-U0BK8-NE-02	5C	2.5	7	0.7	1.8	1.43	13.0	250	44
18	7614-05C00400-U0BK8-NE-02	5C	4	7	0.7	1.8	1.43	14.4	330	50
19	7614-05C00600-U0BK8-NE-02	5C	6	7	0.7	1.8	1.43	16.0	450	56
20	7614-05C01000-U0BK8-NE-02	5C	10	7	0.7	1.8	1.43	18.5	675	66



**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-ND	2C	1.5	7	0.7	1.8	1.43	9.8	110	32
2	7614-02C00250-U0BK8-ND	2C	2.5	7	0.7	1.8	1.43	10.6	135	35
3	7614-02C00400-U0BK8-ND	2C	4	7	0.7	1.8	1.43	11.6	175	39
4	7614-02C00600-U0BK8-ND	2C	6	7	0.7	1.8	1.43	12.8	230	43
5	7614-02C01000-U0BK8-ND	2C	10	7	0.7	1.8	1.43	14.7	325	51
6	7614-03C00150-U0BK8-ND	3C	1.5	7	0.7	1.8	1.43	10.3	140	34
7	7614-03C00250-U0BK8-ND	3C	2.5	7	0.7	1.8	1.43	11.2	175	37
8	7614-03C00400-U0BK8-ND	3C	4	7	0.7	1.8	1.43	12.3	230	42
9	7614-03C00600-U0BK8-ND	3C	6	7	0.7	1.8	1.43	13.4	300	46
10	7614-03C01000-U0BK8-ND	3C	10	7	0.7	1.8	1.43	15.6	440	55
11	7614-04C00150-U0BK8-ND	4C	1.5	7	0.7	1.8	1.43	11.0	165	36
12	7614-04C00250-U0BK8-ND	4C	2.5	7	0.7	1.8	1.43	12.1	210	41
13	7614-04C00400-U0BK8-ND	4C	4	7	0.7	1.8	1.43	13.3	280	45
14	7614-04C00600-U0BK8-ND	4C	6	7	0.7	1.8	1.43	14.7	375	51
15	7614-04C01000-U0BK8-ND	4C	10	7	0.7	1.8	1.43	17.0	550	60
16	7614-05C00150-U0BK8-ND-02	5C	1.5	7	0.7	1.8	1.43	11.9	190	40
17	7614-05C00250-U0BK8-ND-02	5C	2.5	7	0.7	1.8	1.43	13.0	250	44
18	7614-05C00400-U0BK8-ND-02	5C	4	7	0.7	1.8	1.43	14.4	330	50
19	7614-05C00600-U0BK8-ND-02	5C	6	7	0.7	1.8	1.43	16.0	450	56
20	7614-05C01000-U0BK8-ND-02	5C	10	7	0.7	1.8	1.43	18.5	675	66

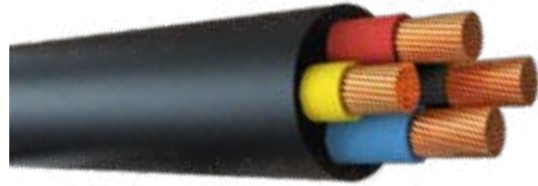
**TABLE: IEC 60332-1-2**

COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	76D4-02C01600-U0BK8-NE	2C	16	7	0.7	1.8	1.43	15.8	440	55
2	76D4-02C02500-U0BK8-NE	2C	25	7	0.9	1.8	1.43	19.2	640	69
3	76D4-02C03500-U0BK8-NE	2C	35	7	0.9	1.8	1.43	21.4	845	78
4	76D4-02C05000-U0BK8-NE	2C	50	19	1.0	1.8	1.43	24.5	1110	90
5	76D4-02C07000-U0BK8-NE	2C	70	19	1.1	1.8	1.43	27.9	1520	103
6	76D4-02C09500-U0BK8-NE	2C	95	19	1.1	1.9	1.52	31.4	2010	123
7	76D4-02C12000-U0BK8-NE	2C	120	19	1.2	2.0	1.60	34.9	2530	145
8	76D4-03C01600-U0BK8-NE	3C	16	7	0.7	1.8	1.43	17.0	600	60
9	76D4-03C02500-U0BK8-NE	3C	25	7	0.9	1.8	1.43	20.4	885	74
10	76D4-03C03500-U0BK8-NE	3C	35	7	0.9	1.8	1.43	22.8	1185	83
11	76D4-04C01600-U0BK8-NE	4C	16	7	0.7	1.8	1.43	18.6	770	66
12	76D4-05C01600-U0BK8-NE-02	5C	16	7	0.7	1.8	1.43	20.1	935	72
13	76D4-05C02500-U0BK8-NE-02	5C	25	7	0.9	1.8	1.43	24.6	1400	90
14	76D4-05C03500-U0BK8-NE-02	5C	35	7	0.9	1.8	1.43	27.5	1885	102
15	76D4-05C05000-U0BK8-NE-02	5C	50	19	1.0	1.9	1.52	31.9	2550	125
16	76D4-05C07000-U0BK8-NE-02	5C	70	19	1.1	2.1	1.69	37.0	3575	161
17	76D4-05C09500-U0BK8-NE-02	5C	95	19	1.1	2.2	1.77	41.6	4750	191
18	76D4-05C12000-U0BK8-NE-02	5C	120	19	1.2	2.4	1.94	46.4	6000	232

**TABLE: IEC 60332-3-24 (CAT C)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76D4-02C01600-U0BK8-ND	2C	16	7	0.7	1.8	1.43	15.8	440	55
2	76D4-02C02500-U0BK8-ND	2C	25	7	0.9	1.8	1.43	19.2	640	69
3	76D4-02C03500-U0BK8-ND	2C	35	7	0.9	1.8	1.43	21.4	845	78
4	76D4-02C05000-U0BK8-ND	2C	50	19	1.0	1.8	1.43	24.5	1110	90
5	76D4-02C07000-U0BK8-ND	2C	70	19	1.1	1.8	1.43	27.9	1520	103
6	76D4-02C09500-U0BK8-ND	2C	95	19	1.1	1.9	1.52	31.4	2010	123
7	76D4-02C12000-U0BK8-ND	2C	120	19	1.2	2.0	1.60	34.9	2530	145
8	76D4-03C01600-U0BK8-ND	3C	16	7	0.7	1.8	1.43	17.0	600	60
9	76D4-03C02500-U0BK8-ND	3C	25	7	0.9	1.8	1.43	20.4	885	74
10	76D4-03C03500-U0BK8-ND	3C	35	7	0.9	1.8	1.43	22.8	1185	83
11	76D4-04C01600-U0BK8-ND	4C	16	7	0.7	1.8	1.43	18.6	770	66
12	76D4-05C01600-U0BK8-ND-02	5C	16	7	0.7	1.8	1.43	20.1	935	72
13	76D4-05C02500-U0BK8-ND-02	5C	25	7	0.9	1.8	1.43	24.6	1400	90
14	76D4-05C03500-U0BK8-ND-02	5C	35	7	0.9	1.8	1.43	27.5	1885	102
15	76D4-05C05000-U0BK8-ND-02	5C	50	19	1.0	1.9	1.52	31.9	2550	125
16	76D4-05C07000-U0BK8-ND-02	5C	70	19	1.1	2.1	1.69	37.0	3575	161
17	76D4-05C09500-U0BK8-ND-02	5C	95	19	1.1	2.2	1.77	41.6	4750	191
18	76D4-05C12000-U0BK8-ND-02	5C	120	19	1.2	2.4	1.94	46.4	6000	232

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76F4-03C02500-U0BK8-NE	3C	25	7	0.9	1.8	1.43	17.9	850	64
2	76F4-03C03500-U0BK8-NE	3C	35	7	0.9	1.8	1.43	19.8	1140	71
3	76F4-03C05000-U0BK8-NE	3C	50	19	1.0	1.8	1.43	22.6	1525	82
4	76F4-03C07000-U0BK8-NE	3C	70	19	1.1	1.9	1.52	25.9	2150	100
5	76F4-03C09500-U0BK8-NE	3C	95	19	1.1	2.0	1.60	29.0	2850	119
6	76F4-03C12000-U0BK8-NE	3C	120	19	1.2	2.1	1.69	32.1	3590	138
7	76F4-04C02500-U0BK8-NE	4C	25	7	0.9	1.8	1.43	20.8	1125	75
8	76F4-04C03500-U0BK8-NE	4C	35	7	0.9	1.8	1.43	23.2	1500	85
9	76F4-04C05000-U0BK8-NE	4C	50	19	1.0	1.8	1.43	26.7	2040	99
10	76F4-04C07000-U0BK8-NE	4C	70	19	1.1	2.0	1.60	30.9	2870	127
11	76F4-04C09500-U0BK8-NE	4C	95	19	1.1	2.1	1.69	34.6	3800	150
12	76F4-04C12000-U0BK8-NE	4C	120	19	1.2	2.3	1.86	38.6	4810	184

**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MES C MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76F4-03C02500-U0BK8-ND	3C	25	7	0.9	1.8	1.43	17.9	850	64
2	76F4-03C03500-U0BK8-ND	3C	35	7	0.9	1.8	1.43	19.8	1140	71
3	76F4-03C05000-U0BK8-ND	3C	50	19	1.0	1.8	1.43	22.6	1525	82
4	76F4-03C07000-U0BK8-ND	3C	70	19	1.1	1.9	1.52	25.9	2150	100
5	76F4-03C09500-U0BK8-ND	3C	95	19	1.1	2.0	1.60	29.0	2850	119
6	76F4-03C12000-U0BK8-ND	3C	120	19	1.2	2.1	1.69	32.1	3590	138
7	76F4-04C02500-U0BK8-ND	4C	25	7	0.9	1.8	1.43	20.8	1125	75
8	76F4-04C03500-U0BK8-ND	4C	35	7	0.9	1.8	1.43	23.2	1500	85
9	76F4-04C05000-U0BK8-ND	4C	50	19	1.0	1.8	1.43	26.7	2040	99
10	76F4-04C07000-U0BK8-ND	4C	70	19	1.1	2.0	1.60	30.9	2870	127
11	76F4-04C09500-U0BK8-ND	4C	95	19	1.1	2.1	1.69	34.6	3800	150
12	76F4-04C12000-U0BK8-ND	4C	120	19	1.2	2.3	1.86	38.6	4810	184

**LV POWER, SINGLE CORE, ARMoured CABLE**  
CU/XLPE/PVC/AWA/PVC  
SPECIFICATION: BS 5467



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	1C: Black
Bedding	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Aarmor	A single layer of Aluminium wire armor is applied over the inner sheath.
Outer Sheath**	Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/AWA/PVC 600/1000V BS 5467 NO. OF CORES X SIZE MES C YEAR LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2  
CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	MIN. NO. OF STRANDS	INSULATION THICKNESS (MM)	BEDDING THICKNESS (MM)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76D4-01C05000-A0BK8-NF	1C	50	19	1.0	0.8	12.1	1.6**	15.1	1.5	1.00	18.1	736	54
2	76D4-01C07000-A0BK8-NF	1C	70	19	1.1	0.8	13.9	1.6**	17.1	1.5	1.00	19.9	953	60
3	76D4-01C09500-A0BK8-NF	1C	95	19	1.1	0.8	15.5	1.6**	18.7	1.6	1.08	21.7	1230	70
4	76D4-01C12000-A0BK8-NF	1C	120	19	1.2	0.8	17.1	1.6**	20.3	1.6	1.08	23.3	1495	76
5	76D4-01C15000-A0BK8-NF	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1825	90
6	76D4-01C18500-A0BK8-NF	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2225	103
7	76D4-01C24000-A0BK8-NF	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.8	1.24	30.3	2800	113
8	76D4-01C30000-A0BK8-NF	1C	300	37	1.8	1.0	26.2	1.6	29.4	1.9	1.32	32.8	3400	129
9	76D4-01C40000-A0BK8-NF	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.0	1.40	37.8	4400	157
10	76D4-01C50000-A0BK8-NF	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.1	1.48	41.2	5525	181
11	76D4-01C63000-A0BK8-NF	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.2	1.56	45.3	6950	208
12	76D4-01C80000-A0BK8-NF	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.4	1.72	51.3	9180	258
13	76D4-1C100000-A0BK8-NF	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.5	1.80	56.5	11350	297
14	7614-01C80000-A0BK8-NF*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.4	1.72	54.7	9300	276
15	7614-1C100000-A0BK8-NF*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.5	1.80	59.8	11450	315

\*Non-Compacted circular conductor, all other compacted circular conductor  
\*\* Wire diameter larger from specified BS 5467

**TABLE: IEC 60332-3-24 (CAT C)  
CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	MIN. NO. OF STRANDS	INSULATION THICKNESS (MM)	BEDDING THICKNESS (MM)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76D4-01C05000-A0BK8-01	1C	50	19	1.0	0.8	12.1	1.6**	15.1	1.5	1.00	18.1	736	54
2	76D4-01C07000-A0BK8-01	1C	70	19	1.1	0.8	13.9	1.6**	17.1	1.5	1.00	19.9	953	60
3	76D4-01C09500-A0BK8-01	1C	95	19	1.1	0.8	15.5	1.6**	18.7	1.6	1.08	21.7	1230	70
4	76D4-01C12000-A0BK8-01	1C	120	19	1.2	0.8	17.1	1.6**	20.3	1.6	1.08	23.3	1495	76
5	76D4-01C15000-A0BK8-01	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1825	90
6	76D4-01C18500-A0BK8-01	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2225	103
7	76D4-01C24000-A0BK8-01	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.8	1.24	30.3	2800	113
8	76D4-01C30000-A0BK8-01	1C	300	37	1.8	1.0	26.2	1.6	29.4	1.9	1.32	32.8	3400	129
9	76D4-01C40000-A0BK8-01	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.0	1.40	37.8	4400	157
10	76D4-01C50000-A0BK8-01	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.1	1.48	41.2	5525	181
11	76D4-01C63000-A0BK8-01	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.2	1.56	45.3	6950	208
12	76D4-01C80000-A0BK8-01	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.4	1.72	51.3	9180	258
13	76D4-1C100000-A0BK8-01	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.5	1.80	56.5	11350	297
14	7614-01C80000-A0BK8-01*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.4	1.72	54.7	9300	276
15	7614-1C100000-A0BK8-01*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.5	1.80	59.8	11450	315

\*Non-Compacted circular conductor, all other compacted circular conductor  
\*\* Wire diameter larger from specified BS 5467



# LV POWER, MULTI CORE, ARMoured CABLE

CU/XLPE/PVC/SWA/PVC

SPECIFICATION: BS 5467



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

## CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Bedding	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor is applied over the inner sheath.
Outer Sheath**	Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/SWA/PVC 600/1000V BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm2)	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Norm	Min			
1	7614-02C00150-W0BK8-NF*	2C	1.5	7	0.6	0.8	7.6	0.9	9.4	1.3	0.84	11.6	265	29
2	7614-02C00250-W0BK8-NF*	2C	2.5	7	0.7	0.8	8.8	0.9	10.6	1.4	0.92	13.0	320	36
3	7614-02C00400-W0BK8-NF*	2C	4	7	0.7	0.8	9.8	0.9	11.6	1.4	0.92	14.0	370	39
4	7614-02C00600-W0BK8-NF*	2C	6	7	0.7	0.8	11.0	0.9	12.8	1.4	0.92	15.2	445	42
5	7614-02C01000-W0BK8-NF*	2C	10	7	0.7	0.8	12.9	0.9	14.7	1.5	1.00	17.3	585	52
6	76D4-02C01600-W0BK8-NF	2C	16	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	815	59
7	76D4-02C02500-W0BK8-NF	2C	25	7	0.9	0.8	17.4	1.25	19.9	1.6	1.08	22.7	1105	74
8	76D4-02C03500-W0BK8-NF	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.7	1.16	26.2	1550	92
9	76D4-02C05000-W0BK8-NF	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.9	1.32	29.7	1950	116
10	76D4-02C07000-W0BK8-NF	2C	70	19	1.1	1.2	26.9	2.0	30.9	2.0	1.40	34.5	2745	143
11	76D4-02C09500-W0BK8-NF	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3385	166
12	76D4-02C12000-W0BK8-NF	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.1	1.48	41.3	4010	181
13	7614-03C00150-W0BK8-NF*	3C	1.5	7	0.6	0.8	8.0	0.9	9.8	1.3	0.84	12.0	290	31
14	7614-03C00250-W0BK8-NF*	3C	2.5	7	0.7	0.8	9.4	0.9	11.2	1.4	0.92	13.6	360	38
15	7614-03C00400-W0BK8-NF*	3C	4	7	0.7	0.8	10.5	0.9	12.3	1.4	0.92	14.7	425	41
16	7614-03C00600-W0BK8-NF*	3C	6	7	0.7	0.8	11.8	0.9	13.6	1.4	0.92	16.0	525	45
17	7614-03C01000-W0BK8-NF*	3C	10	7	0.7	0.8	13.8	1.25	16.3	1.5	1.00	18.9	810	57
18	76D4-03C01600-W0BK8-NF	3C	16	7	0.7	0.8	15.2	1.25	17.7	1.6	1.08	20.5	1015	66
19	76D4-03C02500-W0BK8-NF	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.7	1.16	25.2	1550	88
20	76D4-03C03500-W0BK8-NF	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1950	103
21	7614-04C00150-W0BK8-NF*	4C	1.5	7	0.6	0.8	8.8	0.9	10.6	1.3	0.84	12.8	330	33
22	7614-04C00250-W0BK8-NF*	4C	2.5	7	0.7	0.8	10.3	0.9	12.1	1.4	0.92	14.5	410	40
23	7614-04C00400-W0BK8-NF*	4C	4	7	0.7	0.8	11.5	0.9	13.3	1.4	0.92	15.7	505	44
24	7614-04C00600-W0BK8-NF*	4C	6	7	0.7	0.8	13.0	1.25	15.4	1.5	1.00	18.0	720	54
25	7614-04C01000-W0BK8-NF*	4C	10	7	0.7	0.8	15.2	1.25	17.7	1.5	1.00	20.3	950	62
26	76D4-04C01600-W0BK8-NF	4C	16	7	0.7	0.8	16.8	1.25	19.3	1.6	1.08	22.1	1225	72
27	7614-05C00150-W0BK8-NF-02*	5C	1.5	7	0.6	0.8	9.5	0.9	11.3	1.4	0.92	13.7	350	38
28	7614-05C00250-W0BK8-NF-02*	5C	2.5	7	0.7	0.8	11.2	0.9	13.0	1.4	0.92	15.4	455	43
29	7614-05C00400-W0BK8-NF-02*	5C	4	7	0.7	0.8	12.6	0.9	14.4	1.5	1.00	17.0	575	51
30	7614-05C00600-W0BK8-NF-02*	5C	6	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	825	59
31	7614-05C01000-W0BK8-NF-02*	5C	10	7	0.7	0.8	16.7	1.25	19.2	1.6	1.08	22.0	1125	72
32	76D4-05C01600-W0BK8-NF-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.7	1.16	25.1	1600	87
33	76D4-05C02500-W0BK8-NF-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2225	110
34	76D4-05C03500-W0BK8-NF-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2825	129
35	76D4-05C05000-W0BK8-NF-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.0	1.40	38.3	3890	160
36	76D4-05C07000-W0BK8-NF-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.2	1.56	43.4	5150	199

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)  
CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7614-02C00150-W0BK8-01*	2C	1.5	7	0.6	0.8	7.6	0.9	9.4	1.3	0.84	11.6	265	29
2	7614-02C00250-W0BK8-01*	2C	2.5	7	0.7	0.8	8.8	0.9	10.6	1.4	0.92	13.0	320	36
3	7614-02C00400-W0BK8-01*	2C	4	7	0.7	0.8	9.8	0.9	11.6	1.4	0.92	14.0	370	39
4	7614-02C00600-W0BK8-01*	2C	6	7	0.7	0.8	11.0	0.9	12.8	1.4	0.92	15.2	445	42
5	7614-02C01000-W0BK8-01*	2C	10	7	0.7	0.8	12.9	0.9	14.7	1.5	1.00	17.3	585	52
6	76D4-02C01600-W0BK8-01	2C	16	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	815	59
7	76D4-02C02500-W0BK8-01	2C	25	7	0.9	0.8	17.4	1.25	19.9	1.6	1.08	22.7	1105	74
8	76D4-02C03500-W0BK8-01	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.7	1.16	26.2	1550	92
9	76D4-02C05000-W0BK8-01	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.9	1.32	29.7	1950	116
10	76D4-02C07000-W0BK8-01	2C	70	19	1.1	1.2	26.9	2.0	30.9	2.0	1.40	34.5	2745	143
11	76D4-02C09500-W0BK8-01	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3385	166
12	76D4-02C12000-W0BK8-01	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.1	1.48	41.3	4010	181
13	7614-03C00150-W0BK8-01*	3C	1.5	7	0.6	0.8	8.0	0.9	9.8	1.3	0.84	12.0	290	31
14	7614-03C00250-W0BK8-01*	3C	2.5	7	0.7	0.8	9.4	0.9	11.2	1.4	0.92	13.6	360	38
15	7614-03C00400-W0BK8-01*	3C	4	7	0.7	0.8	10.5	0.9	12.3	1.4	0.92	14.7	425	41
16	7614-03C00600-W0BK8-01*	3C	6	7	0.7	0.8	11.8	0.9	13.6	1.4	0.92	16.0	525	45
17	7614-03C01000-W0BK8-01*	3C	10	7	0.7	0.8	13.8	1.25	16.3	1.5	1.00	18.9	810	57
18	76D4-03C01600-W0BK8-01	3C	16	7	0.7	0.8	15.2	1.25	17.7	1.6	1.08	20.5	1015	66
19	76D4-03C02500-W0BK8-01	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.7	1.16	25.2	1550	88
20	76D4-03C03500-W0BK8-01	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1950	103
21	7614-04C00150-W0BK8-01*	4C	1.5	7	0.6	0.8	8.8	0.9	10.6	1.3	0.84	12.8	330	33
22	7614-04C00250-W0BK8-01*	4C	2.5	7	0.7	0.8	10.3	0.9	12.1	1.4	0.92	14.5	410	40
23	7614-04C00400-W0BK8-01*	4C	4	7	0.7	0.8	11.5	0.9	13.3	1.4	0.92	15.7	505	44
24	7614-04C00600-W0BK8-01*	4C	6	7	0.7	0.8	13.0	1.25	15.4	1.5	1.00	18.0	720	54
25	7614-04C01000-W0BK8-01*	4C	10	7	0.7	0.8	15.2	1.25	17.7	1.5	1.00	20.3	950	62
26	76D4-04C01600-W0BK8-01	4C	16	7	0.7	0.8	16.8	1.25	19.3	1.6	1.08	22.1	1225	72
27	7614-05C00150-W0BK8-01-02*	5C	1.5	7	0.6	0.8	9.5	0.9	11.3	1.4	0.92	13.7	350	38
28	7614-05C00250-W0BK8-01-02*	5C	2.5	7	0.7	0.8	11.2	0.9	13.0	1.4	0.92	15.4	455	43
29	7614-05C00400-W0BK8-01-02*	5C	4	7	0.7	0.8	12.6	0.9	14.4	1.5	1.00	17.0	575	51
30	7614-05C00600-W0BK8-01-02*	5C	6	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	825	59
31	7614-05C01000-W0BK8-01-02*	5C	10	7	0.7	0.8	16.7	1.25	19.2	1.6	1.08	22.0	1125	72
32	76D4-05C01600-W0BK8-01-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.7	1.16	25.1	1600	87
33	76D4-05C02500-W0BK8-01-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2225	110
34	76D4-05C03500-W0BK8-01-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2825	129
35	76D4-05C05000-W0BK8-01-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.0	1.40	38.3	3890	160
36	76D4-05C07000-W0BK8-01-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.2	1.56	43.4	5150	199

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2  
SECTOR SHAPED CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76F4-02C15000-W0BK8-NF	2C	150	19	1.4	1.2	27.9	2.0	31.9	2.2	1.56	35.9	4200	163
2	76F4-02C18500-W0BK8-NF	2C	185	37	1.6	1.4	31.3	2.5	36.3	2.4	1.72	40.7	5400	202
3	76F4-02C24000-W0BK8-NF	2C	240	37	1.7	1.4	34.7	2.5	39.7	2.5	1.80	44.3	6700	230
4	76F4-02C30000-W0BK8-NF	2C	300	37	1.8	1.6	38.4	2.5	43.4	2.6	1.88	48.2	8150	261
5	76F4-02C40000-W0BK8-NF	2C	400	61	2.0	1.6	43.5	2.5	48.5	2.8	2.04	53.7	10005	313
6	76F4-03C02500-W0BK8-NF	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.7	1.16	22.7	1450	78
7	76F4-03C03500-W0BK8-NF	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
8	76F4-03C05000-W0BK8-NF	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.8	1.24	27.6	2290	102
9	76F4-03C07000-W0BK8-NF	3C	70	19	1.1	1.0	24.3	1.6	27.5	1.9	1.32	30.9	3020	121
10	76F4-03C09500-W0BK8-NF	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.1	1.48	35.4	4100	154
11	76F4-03C12000-W0BK8-NF	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.2	1.56	38.5	4950	176
12	76F4-03C15000-W0BK8-NF	3C	150	19	1.4	1.4	34.4	2.5	39.4	2.3	1.64	43.6	6350	209
13	76F4-03C18500-W0BK8-NF	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.4	1.72	47.4	7550	237
14	76F4-03C24000-W0BK8-NF	3C	240	37	1.7	1.4	42.3	2.5	47.3	2.6	1.88	52.1	9470	283
15	76F4-03C30000-W0BK8-NF	3C	300	37	1.8	1.6	46.9	2.5	51.9	2.7	1.96	56.9	11600	322
16	76F4-03C40000-W0BK8-NF	3C	400	61	2.0	1.6	53.3	2.5	58.3	2.9	2.12	63.7	14275	388
17	76F4-04C02500-W0BK8-NF	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1800	89
18	76F4-04C03500-W0BK8-NF	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.8	1.24	28.2	2275	104
19	76F4-04C05000-W0BK8-NF	4C	50	19	1.0	1.0	25.3	1.6	28.5	1.9	1.32	31.9	2945	125
20	76F4-04C07000-W0BK8-NF	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.1	1.48	37.3	4175	163
21	76F4-04C09500-W0BK8-NF	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.2	1.56	41.0	5280	188
22	76F4-04C12000-W0BK8-NF	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.3	1.64	46.2	6845	222
23	76F4-04C15000-W0BK8-NF	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.4	1.72	50.7	8170	255
24	76F4-04C18500-W0BK8-NF	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.6	1.88	55.5	9800	302
25	76F4-04C24000-W0BK8-NF	4C	240	37	1.7	1.6	51.4	2.5	56.4	2.7	1.96	61.4	12375	348
26	76F4-04C30000-W0BK8-NF	4C	300	37	1.8	1.6	56.6	2.5	61.6	2.9	2.12	67.0	15150	409
27	76F4-04C40000-W0BK8-NF	4C	400	61	2.0	1.8	64.9	3.15	71.2	3.2	2.36	77.2	19600	521

**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76F4-02C15000-W0BK8-01	2C	150	19	1.4	1.2	27.9	2.0	31.9	2.2	1.56	35.9	4200	163
2	76F4-02C18500-W0BK8-01	2C	185	37	1.6	1.4	31.3	2.5	36.3	2.4	1.72	40.7	5400	202
3	76F4-02C24000-W0BK8-01	2C	240	37	1.7	1.4	34.7	2.5	39.7	2.5	1.80	44.3	6700	230
4	76F4-02C30000-W0BK8-01	2C	300	37	1.8	1.6	38.4	2.5	43.4	2.6	1.88	48.2	8150	261
5	76F4-02C40000-W0BK8-01	2C	400	61	2.0	1.6	43.5	2.5	48.5	2.8	2.04	53.7	10005	313
6	76F4-03C02500-W0BK8-01	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.7	1.16	22.7	1450	78
7	76F4-03C03500-W0BK8-01	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
8	76F4-03C05000-W0BK8-01	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.8	1.24	27.6	2290	102
9	76F4-03C07000-W0BK8-01	3C	70	19	1.1	1.0	24.3	1.6	27.5	1.9	1.32	30.9	3020	121
10	76F4-03C09500-W0BK8-01	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.1	1.48	35.4	4100	154
11	76F4-03C12000-W0BK8-01	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.2	1.56	38.5	4950	176
12	76F4-03C15000-W0BK8-01	3C	150	19	1.4	1.4	34.4	2.5	39.4	2.3	1.64	43.6	6350	209
13	76F4-03C18500-W0BK8-01	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.4	1.72	47.4	7550	237
14	76F4-03C24000-W0BK8-01	3C	240	37	1.7	1.4	42.3	2.5	47.3	2.6	1.88	52.1	9470	283
15	76F4-03C30000-W0BK8-01	3C	300	37	1.8	1.6	46.9	2.5	51.9	2.7	1.96	56.9	11600	322
16	76F4-03C40000-W0BK8-01	3C	400	61	2.0	1.6	53.3	2.5	58.3	2.9	2.12	63.7	14275	388
17	76F4-04C02500-W0BK8-01	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1800	89
18	76F4-04C03500-W0BK8-01	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.8	1.24	28.2	2275	104
19	76F4-04C05000-W0BK8-01	4C	50	19	1.0	1.0	25.3	1.6	28.5	1.9	1.32	31.9	2945	125
20	76F4-04C07000-W0BK8-01	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.1	1.48	37.3	4175	163
21	76F4-04C09500-W0BK8-01	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.2	1.56	41.0	5280	188
22	76F4-04C12000-W0BK8-01	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.3	1.64	46.2	6845	222
23	76F4-04C15000-W0BK8-01	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.4	1.72	50.7	8170	255
24	76F4-04C18500-W0BK8-01	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.6	1.88	55.5	9800	302
25	76F4-04C24000-W0BK8-01	4C	240	37	1.7	1.6	51.4	2.5	56.4	2.7	1.96	61.4	12375	348
26	76F4-04C30000-W0BK8-01	4C	300	37	1.8	1.6	56.6	2.5	61.6	2.9	2.12	67.0	15150	409
27	76F4-04C40000-W0BK8-01	4C	400	61	2.0	1.8	64.9	3.15	71.2	3.2	2.36	77.2	19600	521

**CONTROL MULTI CORE, ARMoured CABLE**  
CU/XLPE/PVC/SWA/PVC  
SPECIFICATION: BS 5467



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	Black cores with number printing on each core
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Bedding	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor is applied over the inner sheath.
Outer Sheath**	Extruded Flame retardant PVC Type 9 to BS 7655-4.2. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/SWA/PVC 600/1000V AUX BS 5467 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.



**TABLE: IEC 60332-1  
NON-COMPACTED CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-07C00150-W0BK8-NF	7C	1.5	7	0.6	0.8	10.6	0.9	12.4	1.4	0.92	15.2	453	42
2	7614-12C00150-W0BK8-NF	12C	1.5	7	0.6	0.8	13.9	1.25	16.4	1.5	1.00	19.5	760	59
3	7614-19C00150-W0BK8-NF	19C	1.5	7	0.6	0.8	16.3	1.25	18.8	1.6	1.08	22.1	982	72
4	7614-27C00150-W0BK8-NF	27C	1.5	7	0.6	1.0	20.1	1.6	23.3	1.7	1.16	26.7	1429	94
5	7614-37C00150-W0BK8-NF	37C	1.5	7	0.6	1.0	22.5	1.6	25.7	1.7	1.16	29.2	1736	103
6	7614-07C00250-W0BK8-NF	7C	2.5	7	0.7	0.8	12.5	0.9	14.3	1.4	0.92	17.7	621	50
7	7614-12C00250-W0BK8-NF	12C	2.5	7	0.7	0.8	16.6	1.25	19.1	1.6	1.08	22.9	1041	75
8	7614-19C00250-W0BK8-NF	19C	2.5	7	0.7	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1430	95
9	7614-27C00250-W0BK8-NF	27C	2.5	7	0.7	1.0	23.3	1.6	26.5	1.8	1.24	29.7	1825	118
10	7614-37C00250-W0BK8-NF	37C	2.5	7	0.7	1.0	26.2	1.6	29.4	1.8	1.24	32.6	2235	129
11	7614-07C00400-W0BK8-NF	7C	4	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	20.3	880	62
12	7614-12C00400-W0BK8-NF	12C	4	7	0.7	1.0	19.3	1.6	22.5	1.6	1.08	26.3	1465	87
13	7614-19C00400-W0BK8-NF	19C	4	7	0.7	1.0	22.0	1.6	25.2	1.7	1.16	28.1	1800	105
14	7614-27C00400-W0BK8-NF	27C	4	7	0.7	1.0	26.5	1.6	29.7	1.9	1.32	33.1	2375	139
15	7614-37C00400-W0BK8-NF	37C	4	7	0.7	1.2	30.2	2.0	34.2	2.0	1.40	37.8	3220	167

Others numbers up to a maximum of 37 cores are available upon request.  
Control (Auxiliary) cable with 2-5 cores will be made in accordance with power cable dimensions.

**TABLE: IEC 60332-3-24 (CAT C)  
NON-COMPACTED CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-07C00150-W0BK8-01	7C	1.5	7	0.6	0.8	10.6	0.9	12.4	1.4	0.92	15.2	453	42
2	7614-12C00150-W0BK8-01	12C	1.5	7	0.6	0.8	13.9	1.25	16.4	1.5	1.00	19.5	760	59
3	7614-19C00150-W0BK8-01	19C	1.5	7	0.6	0.8	16.3	1.25	18.8	1.6	1.08	22.1	982	72
4	7614-27C00150-W0BK8-01	27C	1.5	7	0.6	1.0	20.1	1.6	23.3	1.7	1.16	26.7	1429	94
5	7614-37C00150-W0BK8-01	37C	1.5	7	0.6	1.0	22.5	1.6	25.7	1.7	1.16	29.2	1736	103
6	7614-07C00250-W0BK8-01	7C	2.5	7	0.7	0.8	12.5	0.9	14.3	1.4	0.92	17.7	621	50
7	7614-12C00250-W0BK8-01	12C	2.5	7	0.7	0.8	16.6	1.25	19.1	1.6	1.08	22.9	1041	75
8	7614-19C00250-W0BK8-01	19C	2.5	7	0.7	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1430	95
9	7614-27C00250-W0BK8-01	27C	2.5	7	0.7	1.0	23.3	1.6	26.5	1.8	1.24	29.7	1825	118
10	7614-37C00250-W0BK8-01	37C	2.5	7	0.7	1.0	26.2	1.6	29.4	1.8	1.24	32.6	2235	129
11	7614-07C00400-W0BK8-01	7C	4	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	20.3	880	62
12	7614-12C00400-W0BK8-01	12C	4	7	0.7	1.0	19.3	1.6	22.5	1.6	1.08	26.3	1465	87
13	7614-19C00400-W0BK8-01	19C	4	7	0.7	1.0	22.0	1.6	25.2	1.7	1.16	28.1	1800	105
14	7614-27C00400-W0BK8-01	27C	4	7	0.7	1.0	26.5	1.6	29.7	1.9	1.32	33.1	2375	139
15	7614-37C00400-W0BK8-01	37C	4	7	0.7	1.2	30.2	2.0	34.2	2.0	1.40	37.8	3220	167

Others numbers up to a maximum of 37 cores are available upon request.  
Control (Auxiliary) cable with 2-5 cores will be made in accordance with power cable dimensions.



## LV POWER, SINGLE CORE, ARMOURED CABLE

CU/XLPE/LSZH/AWA/LSZH  
SPECIFICATION: BS 6724



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	1C: Black
Bedding	Low Smoke Zero Halogen (LSZH) thermoplastic in Black color.
Armor	A single layer of Aluminium wire armor is applied over the inner sheath.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) thermoplastic Type LTS 1 to BS 7655-6.1. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/AWA/LSZH 600/1000V BS 6724 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid	IEC 60754-1 (≤ 0.5%)
Smoke Emission	IEC 61034-2 (Light Transmittance ≥ 70%)

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A), UV/Sunlight resistance, Anti-Termite / Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE (IEC 60332-1 & IEC 60332-3-24):  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76D4-01C05000-A0BK8-BH	1C	50	19	1.0	0.8	12.1	1.6**	15.1	1.5	1.00	18.1	736	54
2	76D4-01C07000-A0BK8-BH	1C	70	19	1.1	0.8	13.9	1.6**	17.1	1.5	1.00	19.9	953	60
3	76D4-01C09500-A0BK8-BH	1C	95	19	1.1	0.8	15.5	1.6**	18.7	1.6	1.08	21.7	1230	70
4	76D4-01C12000-A0BK8-BH	1C	120	19	1.2	0.8	17.1	1.6**	20.3	1.6	1.08	23.3	1495	76
5	76D4-01C15000-A0BK8-BH	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1825	90
6	76D4-01C18500-A0BK8-BH	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2205	103
7	76D4-01C24000-A0BK8-BH	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.8	1.24	30.3	2780	113
8	76D4-01C30000-A0BK8-BH	1C	300	37	1.8	1.0	26.2	1.6	29.4	1.9	1.32	32.8	3400	129
9	76D4-01C40000-A0BK8-BH	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.0	1.40	37.8	4400	157
10	76D4-01C50000-A0BK8-BH	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.1	1.48	41.2	5475	181
11	76D4-01C63000-A0BK8-BH	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.2	1.56	45.3	6925	208
12	76D4-01C80000-A0BK8-BH	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.4	1.72	51.3	9150	258
13	76D4-1C100000-A0BK8-BH	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.5	1.80	56.5	11325	297
14	7614-01C80000-A0BK8-BH*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.4	1.72	54.7	9300	276
15	7614-1C100000-A0BK8-BH*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.5	1.80	59.8	11450	315

\*Non-Compacted circular conductor, all other compacted circular conductor

\*\* Wire diameter larger from specified BS 6724

# LV POWER, MULTI CORE, ARMoured CABLE

## CU/XLPE/LSZH/SWA/LSZH

### SPECIFICATION: BS 6724



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Bedding	Low Smoke Zero Halogen (LSZH) thermoplastic in Black color.
Armor	A single layer of galvanized steel wire armor is applied over the inner sheath.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) thermoplastic Type LTS 1 to BS 7655-6.1. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/SWA/LSZH 600/1000V BS 6724 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5
Halogen Acid	IEC 60754-1 (≤ 0.5%)
Smoke Emission	IEC 61034-2 (Light Transmittance ≥ 70%)

\*Other Insulation color available on request.  
 \*\*Other sheath color available on request.  
 Other special sheath Materials are also available with IEC 60332-3-22 (CAT A), UV/Sunlight resistance, Anti-Termite / Anti-Rodent & Oil resistance.  
 The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1 & IEC 60332-3-24 (CAT C) CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-W0BK8-BH*	2C	1.5	7	0.6	0.8	7.6	0.9	9.4	1.3	0.84	11.6	260	29
2	7614-02C00250-W0BK8-BH*	2C	2.5	7	0.7	0.8	8.8	0.9	10.6	1.4	0.92	13.0	310	36
3	7614-02C00400-W0BK8-BH*	2C	4	7	0.7	0.8	9.8	0.9	11.6	1.4	0.92	14.0	370	39
4	7614-02C00600-W0BK8-BH*	2C	6	7	0.7	0.8	11.0	0.9	12.8	1.4	0.92	15.2	445	42
5	7614-02C01000-W0BK8-BH*	2C	10	7	0.7	0.8	12.9	0.9	14.7	1.5	1.00	17.3	585	52
6	76D4-02C01600-W0BK8-BH	2C	16	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	820	59
7	76D4-02C02500-W0BK8-BH	2C	25	7	0.9	0.8	17.4	1.25	19.9	1.6	1.08	22.7	1100	74
8	76D4-02C03500-W0BK8-BH	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.7	1.16	26.2	1540	92
9	76D4-02C05000-W0BK8-BH	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.9	1.32	29.7	1950	116
10	76D4-02C07000-W0BK8-BH	2C	70	19	1.1	1.2	26.9	2.0	30.9	2.0	1.40	34.5	2730	143
11	76D4-02C09500-W0BK8-BH	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3370	166
12	76D4-02C12000-W0BK8-BH	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.1	1.48	41.3	3995	181
13	7614-03C00150-W0BK8-BH*	3C	1.5	7	0.6	0.8	8.0	0.9	9.8	1.3	0.84	12.0	290	31
14	7614-03C00250-W0BK8-BH*	3C	2.5	7	0.7	0.8	9.4	0.9	11.2	1.4	0.92	13.6	360	38
15	7614-03C00400-W0BK8-BH*	3C	4	7	0.7	0.8	10.5	0.9	12.3	1.4	0.92	14.7	425	41
16	7614-03C00600-W0BK8-BH*	3C	6	7	0.7	0.8	11.8	0.9	13.6	1.4	0.92	16.0	525	45
17	7614-03C01000-W0BK8-BH*	3C	10	7	0.7	0.8	13.8	1.25	16.3	1.5	1.00	18.9	805	57
18	76D4-03C01600-W0BK8-BH	3C	16	7	0.7	0.8	15.2	1.25	17.7	1.6	1.08	20.5	1000	66
19	76D4-03C02500-W0BK8-BH	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.7	1.16	25.2	1540	88
20	76D4-03C03500-W0BK8-BH	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1945	103
21	7614-04C00150-W0BK8-BH*	4C	1.5	7	0.6	0.8	8.8	0.9	10.6	1.3	0.84	12.8	330	33
22	7614-04C00250-W0BK8-BH*	4C	2.5	7	0.7	0.8	10.3	0.9	12.1	1.4	0.92	14.5	410	40
23	7614-04C00400-W0BK8-BH*	4C	4	7	0.7	0.8	11.5	0.9	13.3	1.4	0.92	15.7	500	44
24	7614-04C00600-W0BK8-BH*	4C	6	7	0.7	0.8	13.0	1.25	15.4	1.5	1.00	18.0	720	54
25	7614-04C01000-W0BK8-BH*	4C	10	7	0.7	0.8	15.2	1.25	17.7	1.5	1.00	20.3	950	62
26	76D4-04C01600-W0BK8-BH	4C	16	7	0.7	0.8	16.8	1.25	19.3	1.6	1.08	22.1	1215	72
27	7614-05C00150-W0BK8-BH-02*	5C	1.5	7	0.6	0.8	9.5	0.9	11.3	1.4	0.92	13.7	355	38
28	7614-05C00250-W0BK8-BH-02*	5C	2.5	7	0.7	0.8	11.2	0.9	13.0	1.4	0.92	15.4	455	43
29	7614-05C00400-W0BK8-BH-02*	5C	4	7	0.7	0.8	12.6	0.9	14.4	1.5	1.00	17.0	575	51
30	7614-05C00600-W0BK8-BH-02*	5C	6	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	19.3	825	59
31	7614-05C01000-W0BK8-BH-02*	5C	10	7	0.7	0.8	16.7	1.25	19.2	1.6	1.08	22.0	1125	72
32	76D4-05C01600-W0BK8-BH-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.7	1.16	25.1	1590	87
33	76D4-05C02500-W0BK8-BH-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2215	110
34	76D4-05C03500-W0BK8-BH-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2810	129
35	76D4-05C05000-W0BK8-BH-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.0	1.40	38.3	3870	160
36	76D4-05C07000-W0BK8-BH-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.2	1.56	43.4	5125	199

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1 & IEC 60332-3-24 (CAT C)  
SECTOR SHAPED CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76F4-02C15000-W0BK8-BH	2C	150	19	1.4	1.2	27.9	2.0	31.9	2.2	1.56	35.9	4200	163
2	76F4-02C18500-W0BK8-BH	2C	185	37	1.6	1.4	31.3	2.5	36.3	2.4	1.72	40.7	5380	202
3	76F4-02C24000-W0BK8-BH	2C	240	37	1.7	1.4	34.7	2.5	39.7	2.5	1.80	44.3	6685	230
4	76F4-02C30000-W0BK8-BH	2C	300	37	1.8	1.6	38.4	2.5	43.4	2.6	1.88	48.2	8150	261
5	76F4-02C40000-W0BK8-BH	2C	400	61	2.0	1.6	43.5	2.5	48.5	2.8	2.04	53.7	9995	313
6	76F4-03C02500-W0BK8-BH	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.7	1.16	22.7	1440	78
7	76F4-03C03500-W0BK8-BH	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
8	76F4-03C05000-W0BK8-BH	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.8	1.24	27.6	2280	102
9	76F4-03C07000-W0BK8-BH	3C	70	19	1.1	1.0	24.3	1.6	27.5	1.9	1.32	30.9	3010	121
10	76F4-03C09500-W0BK8-BH	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.1	1.48	35.4	4080	154
11	76F4-03C12000-W0BK8-BH	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.2	1.56	38.5	4945	176
12	76F4-03C15000-W0BK8-BH	3C	150	19	1.4	1.4	34.4	2.5	39.4	2.3	1.64	43.6	6345	209
13	76F4-03C18500-W0BK8-BH	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.4	1.72	47.4	7525	237
14	76F4-03C24000-W0BK8-BH	3C	240	37	1.7	1.4	42.3	2.5	47.3	2.6	1.88	52.1	9440	283
15	76F4-03C30000-W0BK8-BH	3C	300	37	1.8	1.6	46.9	2.5	51.9	2.7	1.96	56.9	11575	322
16	76F4-03C40000-W0BK8-BH	3C	400	61	2.0	1.6	53.3	2.5	58.3	2.9	2.12	63.7	14250	388
17	76F4-04C02500-W0BK8-BH	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1800	89
18	76F4-04C03500-W0BK8-BH	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.8	1.24	28.2	2270	104
19	76F4-04C05000-W0BK8-BH	4C	50	19	1.0	1.0	25.3	1.6	28.5	1.9	1.32	31.9	2930	125
20	76F4-04C07000-W0BK8-BH	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.1	1.48	37.3	4160	163
21	76F4-04C09500-W0BK8-BH	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.2	1.56	41.0	5260	188
22	76F4-04C12000-W0BK8-BH	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.3	1.64	46.2	6825	222
23	76F4-04C15000-W0BK8-BH	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.4	1.72	50.7	8150	255
24	76F4-04C18500-W0BK8-BH	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.6	1.88	55.5	9725	302
25	76F4-04C24000-W0BK8-BH	4C	240	37	1.7	1.6	51.4	2.5	56.4	2.7	1.96	61.4	12330	348
26	76F4-04C30000-W0BK8-BH	4C	300	37	1.8	1.6	56.6	2.5	61.6	2.9	2.12	67.0	15110	409
27	76F4-04C40000-W0BK8-BH	4C	400	61	2.0	1.8	64.9	3.15	71.2	3.2	2.36	77.2	19580	521

**CONTROL, MULTI CORE, ARMoured CABLE**  
CU/XLPE/LSZH/SWA/LSZH  
SPECIFICATION: BS 6724



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to BS 7655-1.3.
Color Code*	Black cores with number printing on each core
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Bedding	Low Smoke Zero Halogen (LSZH) thermoplastic in Black color.
Armor	A single layer of galvanized steel wire armor is applied over the inner sheath.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) thermoplastic Type LTS 1 to BS 7655-6.1. The color of the sheath shall be Black.
Marking on the sheath	Example – ELECTRIC CABLE CU/XLPE/SWA/LSZH 600/1000V AUX BS 6724 NO. OF CORES X SIZE MESC YEAR LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5
Halogen Acid	IEC 60754-1 (≤ 0.5%)
Smoke Emission	IEC 61034-2 (Light Transmittance ≥ 70%)

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A), UV/Sunlight resistance, Anti-Termite / Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1 & IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-07C00150-W0BK8-BH	7C	1.5	7	0.6	0.8	10.6	0.9	12.4	1.4	0.92	15.2	445	42
2	7614-12C00150-W0BK8-BH	12C	1.5	7	0.6	0.8	13.9	1.25	16.4	1.5	1.00	19.5	745	59
3	7614-19C00150-W0BK8-BH	19C	1.5	7	0.6	0.8	16.3	1.25	18.8	1.6	1.08	22.1	962	72
4	7614-27C00150-W0BK8-BH	27C	1.5	7	0.6	1.0	20.1	1.6	23.3	1.7	1.16	26.7	1400	94
5	7614-37C00150-W0BK8-BH	37C	1.5	7	0.6	1.0	22.5	1.6	25.7	1.7	1.16	29.2	1700	103
6	7614-07C00250-W0BK8-BH	7C	2.5	7	0.7	0.8	12.5	0.9	14.3	1.4	0.92	17.7	610	50
7	7614-12C00250-W0BK8-BH	12C	2.5	7	0.7	0.8	16.6	1.25	19.1	1.6	1.08	22.9	1020	75
8	7614-19C00250-W0BK8-BH	19C	2.5	7	0.7	1.0	19.4	1.6	22.6	1.7	1.16	25.6	1430	95
9	7614-27C00250-W0BK8-BH	27C	2.5	7	0.7	1.0	23.3	1.6	26.5	1.8	1.24	29.7	1825	118
10	7614-37C00250-W0BK8-BH	37C	2.5	7	0.7	1.0	26.2	1.6	29.4	1.8	1.24	32.6	2235	129
11	7614-07C00400-W0BK8-BH	7C	4	7	0.7	0.8	14.2	1.25	16.7	1.5	1.00	20.3	860	62
12	7614-12C00400-W0BK8-BH	12C	4	7	0.7	1.0	19.3	1.6	22.5	1.6	1.08	26.3	1445	87
13	7614-19C00400-W0BK8-BH	19C	4	7	0.7	1.0	22.0	1.6	25.2	1.7	1.16	28.1	1800	105
14	7614-27C00400-W0BK8-BH	27C	4	7	0.7	1.0	26.5	1.6	29.7	1.9	1.32	33.1	2375	139
15	7614-37C00400-W0BK8-BH	37C	4	7	0.7	1.2	30.2	2.0	34.2	2.0	1.40	37.8	3220	167

Others numbers, more than 37 cores are available upon request.  
Control (Auxiliary) cable with 2-5 cores will be made in accordance with power cable dimensions.

**LV POWER, SINGLE/MULTI CORE, UNARMoured CABLE**  
CU/PVC/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code*	1C: Black 2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling**	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/PVC/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 V DC / 5

\*Other Insulation color available on request.  
\*\*Applicable only for Multi-Core cables.  
\*\*\* Other sheath color available on request.  
\*\*\*\*Flame Retardant Property of cable will be as per requirement.  
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm





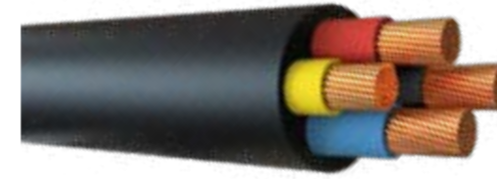
**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-01C00150-U0BK8-NI*	1C	1.5	7	0.8	1.4	0.92	6.0	55	14
2	7311-01C00250-U0BK8-NI*	1C	2.5	7	0.8	1.4	0.92	6.4	65	15
3	7311-01C00400-U0BK8-NI*	1C	4	7	1.0	1.4	0.92	7.3	95	18
4	7311-01C00600-U0BK8-NI*	1C	6	7	1.0	1.4	0.92	7.9	120	20
5	7311-01C01000-U0BK8-NI*	1C	10	7	1.0	1.4	0.92	8.9	170	23
6	73D1-01C01600-U0BK8-NI	1C	16	7	1.0	1.4	0.92	9.5	225	25
7	73D1-01C02500-U0BK8-NI	1C	25	7	1.2	1.4	0.92	11.1	330	30
8	73D1-01C03500-U0BK8-NI	1C	35	7	1.2	1.4	0.92	12.2	435	33
9	73D1-01C05000-U0BK8-NI	1C	50	19	1.4	1.4	0.92	13.9	570	38
10	73D1-01C07000-U0BK8-NI	1C	70	19	1.4	1.4	0.92	15.5	780	43
11	73D1-01C09500-U0BK8-NI	1C	95	19	1.6	1.5	1.00	17.7	1040	53
12	73D1-01C12000-U0BK8-NI	1C	120	19	1.6	1.5	1.00	19.1	1285	58
13	73D1-01C15000-U0BK8-NI	1C	150	19	1.8	1.6	1.08	21.3	1590	69
14	73D1-01C18500-U0BK8-NI	1C	185	37	2.0	1.7	1.16	23.5	1945	81
15	73D1-01C24000-U0BK8-NI	1C	240	37	2.2	1.8	1.24	26.3	2530	97
16	73D1-01C30000-U0BK8-NI	1C	300	37	2.4	1.9	1.32	29.0	3145	113
17	73D1-01C40000-U0BK8-NI	1C	400	61	2.6	2.0	1.40	32.8	3990	135
18	73D1-01C50000-U0BK8-NI	1C	500	61	2.8	2.1	1.48	36.2	5040	157
19	73D1-01C63000-U0BK8-NI	1C	630	61	2.8	2.2	1.56	39.9	6420	182
20	73D1-01C80000-U0BK8-NI	1C	800	61	2.8	2.3	1.64	43.9	8315	210
21	73D1-1C100000-U0BK8-NI	1C	1000	61	3.0	2.5	1.80	49.3	10420	257
22	7311-01C80000-U0BK8-NI*	1C	800	91	2.8	2.3	1.64	47.3	8400	228
23	7311-1C100000-U0BK8-NI*	1C	1000	91	3.0	2.5	1.80	52.6	10505	275

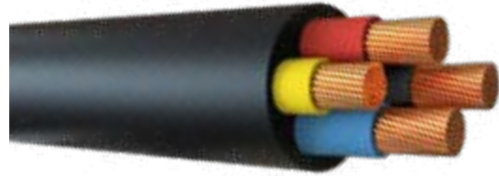
\*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



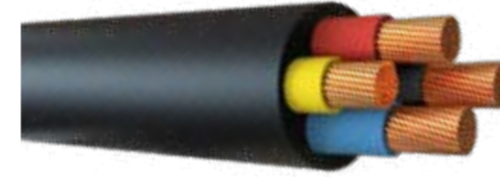
SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-02C00150-U0BK8-00	2C	1.5	7	0.8	1.8	1.24	10.2	130	33
2	7311-02C00250-U0BK8-00	2C	2.5	7	0.8	1.8	1.24	11.0	155	36
3	7311-02C00400-U0BK8-00	2C	4	7	1.0	1.8	1.24	12.8	210	43
4	7311-02C00600-U0BK8-00	2C	6	7	1.0	1.8	1.24	14.0	265	48
5	7311-02C01000-U0BK8-00	2C	10	7	1.0	1.8	1.24	15.9	370	56
6	7311-03C00150-U0BK8-00	3C	1.5	7	0.8	1.8	1.24	10.7	155	35
7	7311-03C00250-U0BK8-00	3C	2.5	7	0.8	1.8	1.24	11.6	195	39
8	7311-03C00400-U0BK8-00	3C	4	7	1.0	1.8	1.24	13.6	275	47
9	7311-03C00600-U0BK8-00	3C	6	7	1.0	1.8	1.24	14.9	355	52
10	7311-03C01000-U0BK8-00	3C	10	7	1.0	1.8	1.24	16.9	500	60
11	7311-04C00150-U0BK8-00	4C	1.5	7	0.8	1.8	1.24	11.5	190	38
12	7311-04C00250-U0BK8-00	4C	2.5	7	0.8	1.8	1.24	12.5	240	42
13	7311-04C00400-U0BK8-00	4C	4	7	1.0	1.8	1.24	14.7	335	51
14	7311-04C00600-U0BK8-00	4C	6	7	1.0	1.8	1.24	16.2	440	57
15	7311-04C01000-U0BK8-00	4C	10	7	1.0	1.8	1.24	18.4	630	66
16	7311-05C00150-U0BK8-00-02	5C	1.5	7	0.8	1.8	1.24	12.4	220	42
17	7311-05C00250-U0BK8-00-02	5C	2.5	7	0.8	1.8	1.24	13.6	285	47
18	7311-05C00400-U0BK8-00-02	5C	4	7	1.0	1.8	1.24	16.0	405	56
19	7311-05C00600-U0BK8-00-02	5C	6	7	1.0	1.8	1.24	17.6	530	62
20	7311-05C01000-U0BK8-00-02	5C	10	7	1.0	1.8	1.24	20.1	765	72

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



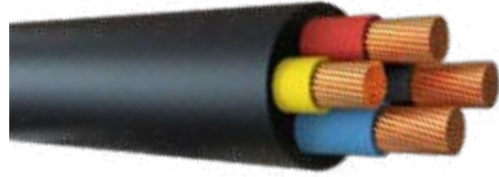
SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-02C00150-U0BK8-0A	2C	1.5	7	0.8	1.8	1.24	10.2	130	33
2	7311-02C00250-U0BK8-0A	2C	2.5	7	0.8	1.8	1.24	11.0	155	36
3	7311-02C00400-U0BK8-0A	2C	4	7	1.0	1.8	1.24	12.8	210	43
4	7311-02C00600-U0BK8-0A	2C	6	7	1.0	1.8	1.24	14.0	265	48
5	7311-02C01000-U0BK8-0A	2C	10	7	1.0	1.8	1.24	15.9	370	56
6	7311-03C00150-U0BK8-0A	3C	1.5	7	0.8	1.8	1.24	10.7	155	35
7	7311-03C00250-U0BK8-0A	3C	2.5	7	0.8	1.8	1.24	11.6	195	39
8	7311-03C00400-U0BK8-0A	3C	4	7	1.0	1.8	1.24	13.6	275	47
9	7311-03C00600-U0BK8-0A	3C	6	7	1.0	1.8	1.24	14.9	355	52
10	7311-03C01000-U0BK8-0A	3C	10	7	1.0	1.8	1.24	16.9	500	60
11	7311-04C00150-U0BK8-0A	4C	1.5	7	0.8	1.8	1.24	11.5	190	38
12	7311-04C00250-U0BK8-0A	4C	2.5	7	0.8	1.8	1.24	12.5	240	42
13	7311-04C00400-U0BK8-0A	4C	4	7	1.0	1.8	1.24	14.7	335	51
14	7311-04C00600-U0BK8-0A	4C	6	7	1.0	1.8	1.24	16.2	440	57
15	7311-04C01000-U0BK8-0A	4C	10	7	1.0	1.8	1.24	18.4	630	66
16	7311-05C00150-U0BK8-0A-02	5C	1.5	7	0.8	1.8	1.24	12.4	220	42
17	7311-05C00250-U0BK8-0A-02	5C	2.5	7	0.8	1.8	1.24	13.6	285	47
18	7311-05C00400-U0BK8-0A-02	5C	4	7	1.0	1.8	1.24	16.0	405	56
19	7311-05C00600-U0BK8-0A-02	5C	6	7	1.0	1.8	1.24	17.6	530	62
20	7311-05C01000-U0BK8-0A-02	5C	10	7	1.0	1.8	1.24	20.1	765	72

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-02C00150-U0BK8-NI	2C	1.5	7	0.8	1.8	1.24	10.2	130	33
2	7311-02C00250-U0BK8-NI	2C	2.5	7	0.8	1.8	1.24	11.0	155	36
3	7311-02C00400-U0BK8-NI	2C	4	7	1.0	1.8	1.24	12.8	210	43
4	7311-02C00600-U0BK8-NI	2C	6	7	1.0	1.8	1.24	14.0	265	48
5	7311-02C01000-U0BK8-NI	2C	10	7	1.0	1.8	1.24	15.9	370	56
6	7311-03C00150-U0BK8-NI	3C	1.5	7	0.8	1.8	1.24	10.7	155	35
7	7311-03C00250-U0BK8-NI	3C	2.5	7	0.8	1.8	1.24	11.6	195	39
8	7311-03C00400-U0BK8-NI	3C	4	7	1.0	1.8	1.24	13.6	275	47
9	7311-03C00600-U0BK8-NI	3C	6	7	1.0	1.8	1.24	14.9	355	52
10	7311-03C01000-U0BK8-NI	3C	10	7	1.0	1.8	1.24	16.9	500	60
11	7311-04C00150-U0BK8-NI	4C	1.5	7	0.8	1.8	1.24	11.5	190	38
12	7311-04C00250-U0BK8-NI	4C	2.5	7	0.8	1.8	1.24	12.5	240	42
13	7311-04C00400-U0BK8-NI	4C	4	7	1.0	1.8	1.24	14.7	335	51
14	7311-04C00600-U0BK8-NI	4C	6	7	1.0	1.8	1.24	16.2	440	57
15	7311-04C01000-U0BK8-NI	4C	10	7	1.0	1.8	1.24	18.4	630	66
16	7311-05C00150-U0BK8-NI-02	5C	1.5	7	0.8	1.8	1.24	12.4	220	42
17	7311-05C00250-U0BK8-NI-02	5C	2.5	7	0.8	1.8	1.24	13.6	285	47
18	7311-05C00400-U0BK8-NI-02	5C	4	7	1.0	1.8	1.24	16.0	405	56
19	7311-05C00600-U0BK8-NI-02	5C	6	7	1.0	1.8	1.24	17.6	530	62
20	7311-05C01000-U0BK8-NI-02	5C	10	7	1.0	1.8	1.24	20.1	765	72

**TABLE: IEC 60332-3-24 (CAT C)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73D1-02C01600-U0BK8-00	2C	16	7	1.0	1.8	1.24	17.0	485	60
2	73D1-02C02500-U0BK8-00	2C	25	7	1.2	1.8	1.24	20.4	700	74
3	73D1-02C03500-U0BK8-00	2C	35	7	1.2	1.8	1.24	22.6	915	82
4	73D1-02C05000-U0BK8-00	2C	50	19	1.4	1.8	1.24	26.1	1205	96
5	73D1-02C07000-U0BK8-00	2C	70	19	1.4	1.9	1.32	29.3	1630	114
6	73D1-02C09500-U0BK8-00	2C	95	19	1.6	2.0	1.40	33.6	2170	139
7	73D1-02C12000-U0BK8-00	2C	120	19	1.6	2.1	1.48	36.7	2695	160
8	73D1-02C15000-U0BK8-00	2C	150	19	1.8	2.2	1.56	40.7	3305	186
9	73D1-02C18500-U0BK8-00	2C	185	37	2.0	2.4	1.72	45.1	4050	225
10	73D1-02C24000-U0BK8-00	2C	240	37	2.2	2.5	1.80	50.6	5240	264
11	73D1-02C30000-U0BK8-00	2C	300	37	2.4	2.7	1.96	56.1	6585	317
12	73D1-02C40000-U0BK8-00	2C	400	61	2.6	2.9	2.12	63.6	8275	387
13	73D1-03C01600-U0BK8-00	3C	16	7	1.0	1.8	1.24	18.3	665	65
14	73D1-03C02500-U0BK8-00	3C	25	7	1.2	1.8	1.24	21.7	975	79
15	73D1-03C03500-U0BK8-00	3C	35	7	1.2	1.8	1.24	24.1	1290	88
16	73D1-04C01600-U0BK8-00	4C	16	7	1.0	1.8	1.24	20.1	855	72
17	73D1-05C01600-U0BK8-00-02	5C	16	7	1.0	1.8	1.24	21.7	1040	79
18	73D1-05C02500-U0BK8-00-02	5C	25	7	1.2	1.8	1.24	26.2	1540	97
19	73D1-05C03500-U0BK8-00-02	5C	35	7	1.2	1.9	1.32	29.3	2065	114
20	73D1-05C05000-U0BK8-00-02	5C	50	19	1.4	2.0	1.40	34.3	2790	142
21	73D1-05C07000-U0BK8-00-02	5C	70	19	1.4	2.2	1.56	38.8	3820	177
22	73D1-05C09500-U0BK8-00-02	5C	95	19	1.6	2.3	1.64	44.5	5110	213
23	73D1-05C12000-U0BK8-00-02	5C	120	19	1.6	2.5	1.80	48.8	6390	254

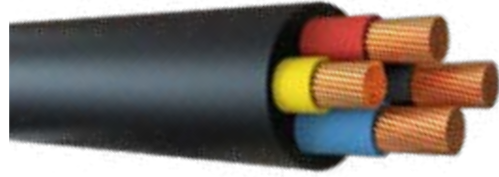
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73D1-02C01600-U0BK8-0A	2C	16	7	1.0	1.8	1.24	17.0	485	60
2	73D1-02C02500-U0BK8-0A	2C	25	7	1.2	1.8	1.24	20.4	700	74
3	73D1-02C03500-U0BK8-0A	2C	35	7	1.2	1.8	1.24	22.6	915	82
4	73D1-02C05000-U0BK8-0A	2C	50	19	1.4	1.8	1.24	26.1	1205	96
5	73D1-02C07000-U0BK8-0A	2C	70	19	1.4	1.9	1.32	29.3	1630	114
6	73D1-02C09500-U0BK8-0A	2C	95	19	1.6	2.0	1.40	33.6	2170	139
7	73D1-02C12000-U0BK8-0A	2C	120	19	1.6	2.1	1.48	36.7	2695	160
8	73D1-02C15000-U0BK8-0A	2C	150	19	1.8	2.2	1.56	40.7	3305	186
9	73D1-02C18500-U0BK8-0A	2C	185	37	2.0	2.4	1.72	45.1	4050	225
10	73D1-02C24000-U0BK8-0A	2C	240	37	2.2	2.5	1.80	50.6	5240	264
11	73D1-02C30000-U0BK8-0A	2C	300	37	2.4	2.7	1.96	56.1	6585	317
12	73D1-02C40000-U0BK8-0A	2C	400	61	2.6	2.9	2.12	63.6	8275	387
13	73D1-03C01600-U0BK8-0A	3C	16	7	1.0	1.8	1.24	18.3	665	65
14	73D1-03C02500-U0BK8-0A	3C	25	7	1.2	1.8	1.24	21.7	975	79
15	73D1-03C03500-U0BK8-0A	3C	35	7	1.2	1.8	1.24	24.1	1290	88
16	73D1-04C01600-U0BK8-0A	4C	16	7	1.0	1.8	1.24	20.1	855	72
17	73D1-05C01600-U0BK8-0A-02	5C	16	7	1.0	1.8	1.24	21.7	1040	79
18	73D1-05C02500-U0BK8-0A-02	5C	25	7	1.2	1.8	1.24	26.2	1540	97
19	73D1-05C03500-U0BK8-0A-02	5C	35	7	1.2	1.9	1.32	29.3	2065	114
20	73D1-05C05000-U0BK8-0A-02	5C	50	19	1.4	2.0	1.40	34.3	2790	142
21	73D1-05C07000-U0BK8-0A-02	5C	70	19	1.4	2.2	1.56	38.8	3820	177
22	73D1-05C09500-U0BK8-0A-02	5C	95	19	1.6	2.3	1.64	44.5	5110	213
23	73D1-05C12000-U0BK8-0A-02	5C	120	19	1.6	2.5	1.80	48.8	6390	254

**TABLE: IEC 60332-1-2**

COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73D1-02C01600-U0BK8-NI	2C	16	7	1.0	1.8	1.24	17.0	485	60
2	73D1-02C02500-U0BK8-NI	2C	25	7	1.2	1.8	1.24	20.4	700	74
3	73D1-02C03500-U0BK8-NI	2C	35	7	1.2	1.8	1.24	22.6	915	82
4	73D1-02C05000-U0BK8-NI	2C	50	19	1.4	1.8	1.24	26.1	1205	96
5	73D1-02C07000-U0BK8-NI	2C	70	19	1.4	1.9	1.32	29.3	1630	114
6	73D1-02C09500-U0BK8-NI	2C	95	19	1.6	2.0	1.40	33.6	2170	139
7	73D1-02C12000-U0BK8-NI	2C	120	19	1.6	2.1	1.48	36.7	2695	160
8	73D1-02C15000-U0BK8-NI	2C	150	19	1.8	2.2	1.56	40.7	3305	186
9	73D1-02C18500-U0BK8-NI	2C	185	37	2.0	2.4	1.72	45.1	4050	225
10	73D1-02C24000-U0BK8-NI	2C	240	37	2.2	2.5	1.80	50.6	5240	264
11	73D1-02C30000-U0BK8-NI	2C	300	37	2.4	2.7	1.96	56.1	6585	317
12	73D1-02C40000-U0BK8-NI	2C	400	61	2.6	2.9	2.12	63.6	8275	387
13	73D1-03C01600-U0BK8-NI	3C	16	7	1.0	1.8	1.24	18.3	665	65
14	73D1-03C02500-U0BK8-NI	3C	25	7	1.2	1.8	1.24	21.7	975	79
15	73D1-03C03500-U0BK8-NI	3C	35	7	1.2	1.8	1.24	24.1	1290	88
16	73D1-04C01600-U0BK8-NI	4C	16	7	1.0	1.8	1.24	20.1	855	72
17	73D1-05C01600-U0BK8-NI-02	5C	16	7	1.0	1.8	1.24	21.7	1040	79
18	73D1-05C02500-U0BK8-NI-02	5C	25	7	1.2	1.8	1.24	26.2	1540	97
19	73D1-05C03500-U0BK8-NI-02	5C	35	7	1.2	1.9	1.32	29.3	2065	114
20	73D1-05C05000-U0BK8-NI-02	5C	50	19	1.4	2.0	1.40	34.3	2790	142
21	73D1-05C07000-U0BK8-NI-02	5C	70	19	1.4	2.2	1.56	38.8	3820	177
22	73D1-05C09500-U0BK8-NI-02	5C	95	19	1.6	2.3	1.64	44.5	5110	213
23	73D1-05C12000-U0BK8-NI-02	5C	120	19	1.6	2.5	1.80	48.8	6390	254

**TABLE: IEC 60332-3-24 (CAT C)**

SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73F1-03C02500-U0BK8-00	3C	25	7	1.2	1.8	1.24	19.2	940	69
2	73F1-03C03500-U0BK8-00	3C	35	7	1.2	1.8	1.24	21.1	1240	76
3	73F1-03C05000-U0BK8-00	3C	50	19	1.4	1.8	1.24	24.3	1670	89
4	73F1-03C07000-U0BK8-00	3C	70	19	1.4	2.0	1.40	27.4	2305	112
5	73F1-03C09500-U0BK8-00	3C	95	19	1.6	2.1	1.48	31.3	3080	135
6	73F1-03C12000-U0BK8-00	3C	120	19	1.6	2.2	1.56	34.0	3820	154
7	73F1-03C15000-U0BK8-00	3C	150	19	1.8	2.3	1.64	37.7	4705	179
8	73F1-03C18500-U0BK8-00	3C	185	37	2.0	2.5	1.80	41.7	5795	215
9	73F1-03C24000-U0BK8-00	3C	240	37	2.2	2.7	1.96	46.8	7545	262
10	73F1-03C30000-U0BK8-00	3C	300	37	2.4	2.8	2.04	51.7	9530	301
11	73F1-03C40000-U0BK8-00	3C	400	61	2.6	3.1	2.28	58.6	12000	378
12	73F1-04C02500-U0BK8-00	4C	25	7	1.2	1.8	1.24	22.2	1245	81
13	73F1-04C03500-U0BK8-00	4C	35	7	1.2	1.8	1.24	24.6	1650	90
14	73F1-04C05000-U0BK8-00	4C	50	19	1.4	1.9	1.32	28.3	2220	110
15	73F1-04C07000-U0BK8-00	4C	70	19	1.4	2.1	1.48	32.4	3085	140
16	73F1-04C09500-U0BK8-00	4C	95	19	1.6	2.2	1.56	37.1	4130	169
17	73F1-04C12000-U0BK8-00	4C	120	19	1.6	2.3	1.64	40.4	5120	193
18	73F1-04C15000-U0BK8-00	4C	150	19	1.8	2.5	1.80	45.1	6340	234
19	73F1-04C18500-U0BK8-00	4C	185	37	2.0	2.6	1.88	49.7	7780	269
20	73F1-04C24000-U0BK8-00	4C	240	37	2.2	2.9	2.12	56.1	10165	339
21	73F1-04C30000-U0BK8-00	4C	300	37	2.4	3.1	2.28	62.2	12795	403
22	73F1-04C40000-U0BK8-00	4C	400	61	2.6	3.4	2.52	70.6	16155	502



**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73F1-03C02500-U0BK8-0A	3C	25	7	1.2	1.8	1.24	19.2	940	69
2	73F1-03C03500-U0BK8-0A	3C	35	7	1.2	1.8	1.24	21.1	1240	76
3	73F1-03C05000-U0BK8-0A	3C	50	19	1.4	1.8	1.24	24.3	1670	89
4	73F1-03C07000-U0BK8-0A	3C	70	19	1.4	2.0	1.40	27.4	2305	112
5	73F1-03C09500-U0BK8-0A	3C	95	19	1.6	2.1	1.48	31.3	3080	135
6	73F1-03C12000-U0BK8-0A	3C	120	19	1.6	2.2	1.56	34.0	3820	154
7	73F1-03C15000-U0BK8-0A	3C	150	19	1.8	2.3	1.64	37.7	4705	179
8	73F1-03C18500-U0BK8-0A	3C	185	37	2.0	2.5	1.80	41.7	5795	215
9	73F1-03C24000-U0BK8-0A	3C	240	37	2.2	2.7	1.96	46.8	7545	262
10	73F1-03C30000-U0BK8-0A	3C	300	37	2.4	2.8	2.04	51.7	9530	301
11	73F1-03C40000-U0BK8-0A	3C	400	61	2.6	3.1	2.28	58.6	12000	378
12	73F1-04C02500-U0BK8-0A	4C	25	7	1.2	1.8	1.24	22.2	1245	81
13	73F1-04C03500-U0BK8-0A	4C	35	7	1.2	1.8	1.24	24.6	1650	90
14	73F1-04C05000-U0BK8-0A	4C	50	19	1.4	1.9	1.32	28.3	2220	110
15	73F1-04C07000-U0BK8-0A	4C	70	19	1.4	2.1	1.48	32.4	3085	140
16	73F1-04C09500-U0BK8-0A	4C	95	19	1.6	2.2	1.56	37.1	4130	169
17	73F1-04C12000-U0BK8-0A	4C	120	19	1.6	2.3	1.64	40.4	5120	193
18	73F1-04C15000-U0BK8-0A	4C	150	19	1.8	2.5	1.80	45.1	6340	234
19	73F1-04C18500-U0BK8-0A	4C	185	37	2.0	2.6	1.88	49.7	7780	269
20	73F1-04C24000-U0BK8-0A	4C	240	37	2.2	2.9	2.12	56.1	10165	339
21	73F1-04C30000-U0BK8-0A	4C	300	37	2.4	3.1	2.28	62.2	12795	403
22	73F1-04C40000-U0BK8-0A	4C	400	61	2.6	3.4	2.52	70.6	16155	502

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73F1-03C02500-U0BK8-NI	3C	25	7	1.2	1.8	1.24	19.2	940	69
2	73F1-03C03500-U0BK8-NI	3C	35	7	1.2	1.8	1.24	21.1	1240	76
3	73F1-03C05000-U0BK8-NI	3C	50	19	1.4	1.8	1.24	24.3	1670	89
4	73F1-03C07000-U0BK8-NI	3C	70	19	1.4	2.0	1.40	27.4	2305	112
5	73F1-03C09500-U0BK8-NI	3C	95	19	1.6	2.1	1.48	31.3	3080	135
6	73F1-03C12000-U0BK8-NI	3C	120	19	1.6	2.2	1.56	34.0	3820	154
7	73F1-03C15000-U0BK8-NI	3C	150	19	1.8	2.3	1.64	37.7	4705	179
8	73F1-03C18500-U0BK8-NI	3C	185	37	2.0	2.5	1.80	41.7	5795	215
9	73F1-03C24000-U0BK8-NI	3C	240	37	2.2	2.7	1.96	46.8	7545	262
10	73F1-03C30000-U0BK8-NI	3C	300	37	2.4	2.8	2.04	51.7	9530	301
11	73F1-03C40000-U0BK8-NI	3C	400	61	2.6	3.1	2.28	58.6	12000	378
12	73F1-04C02500-U0BK8-NI	4C	25	7	1.2	1.8	1.24	22.2	1245	81
13	73F1-04C03500-U0BK8-NI	4C	35	7	1.2	1.8	1.24	24.6	1650	90
14	73F1-04C05000-U0BK8-NI	4C	50	19	1.4	1.9	1.32	28.3	2220	110
15	73F1-04C07000-U0BK8-NI	4C	70	19	1.4	2.1	1.48	32.4	3085	140
16	73F1-04C09500-U0BK8-NI	4C	95	19	1.6	2.2	1.56	37.1	4130	169
17	73F1-04C12000-U0BK8-NI	4C	120	19	1.6	2.3	1.64	40.4	5120	193
18	73F1-04C15000-U0BK8-NI	4C	150	19	1.8	2.5	1.80	45.1	6340	234
19	73F1-04C18500-U0BK8-NI	4C	185	37	2.0	2.6	1.88	49.7	7780	269
20	73F1-04C24000-U0BK8-NI	4C	240	37	2.2	2.9	2.12	56.1	10165	339
21	73F1-04C30000-U0BK8-NI	4C	300	37	2.4	3.1	2.28	62.2	12795	403
22	73F1-04C40000-U0BK8-NI	4C	400	61	2.6	3.4	2.52	70.6	16155	502

# CONTROL, MULTI CORE, UNARMoured CABLE

CU/PVC/PVC

SPECIFICATION: IEC 60502-1



## APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building.

## CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C & above: Black core with Number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/PVC/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\* Other sheath color available on request.

\*\*\*Flame Retardant Property of cable will be as per requirement.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	7311-02C00150-U0BK8-00	2	1.5	7	0.8	1.8	1.24	10.2	130	33
2	7311-03C00150-U0BK8-00	3	1.5	7	0.8	1.8	1.24	10.7	155	35
3	7311-04C00150-U0BK8-00	4	1.5	7	0.8	1.8	1.24	11.5	190	38
4	7311-05C00150-U0BK8-00	5	1.5	7	0.8	1.8	1.24	12.4	220	42
5	7311-06C00150-U0BK8-00	6	1.5	7	0.8	1.8	1.24	13.3	255	45
6	7311-07C00150-U0BK8-00	7	1.5	7	0.8	1.8	1.24	13.3	275	45
7	7311-08C00150-U0BK8-00	8	1.5	7	0.8	1.8	1.24	14.8	315	51
8	7311-10C00150-U0BK8-00	10	1.5	7	0.8	1.8	1.24	16.5	377	58
9	7311-12C00150-U0BK8-00	12	1.5	7	0.8	1.8	1.24	17.0	443	60
10	7311-14C00150-U0BK8-00	14	1.5	7	0.8	1.8	1.24	17.8	487	63
11	7311-15C00150-U0BK8-00	15	1.5	7	0.8	1.8	1.24	18.7	518	67
12	7311-16C00150-U0BK8-00	16	1.5	7	0.8	1.8	1.24	18.7	542	67
13	7311-18C00150-U0BK8-00	18	1.5	7	0.8	1.8	1.24	19.7	605	71
14	7311-19C00150-U0BK8-00	19	1.5	7	0.8	1.8	1.24	19.7	625	71
15	7311-20C00150-U0BK8-00	20	1.5	7	0.8	1.8	1.24	20.7	656	75
16	7311-22C00150-U0BK8-00	22	1.5	7	0.8	1.8	1.24	21.8	723	79
17	7311-24C00150-U0BK8-00	24	1.5	7	0.8	1.8	1.24	22.9	775	83
18	7311-25C00150-U0BK8-00	25	1.5	7	0.8	1.8	1.24	22.9	800	83
19	7311-26C00150-U0BK8-00	26	1.5	7	0.8	1.8	1.24	22.9	825	83
20	7311-30C00150-U0BK8-00	30	1.5	7	0.8	1.8	1.24	24.2	931	89
21	7311-32C00150-U0BK8-00	32	1.5	7	0.8	1.8	1.24	25.1	991	92
22	7311-35C00150-U0BK8-00	35	1.5	7	0.8	1.8	1.24	26.1	1074	96
23	7311-36C00150-U0BK8-00	36	1.5	7	0.8	1.8	1.24	26.1	1094	96
24	7311-40C00150-U0BK8-00	40	1.5	7	0.8	1.8	1.24	27.1	1199	100
25	7311-50C00150-U0BK8-00	50	1.5	7	0.8	1.9	1.32	30.6	1483	120
26	7311-61C00150-U0BK8-00	61	1.5	7	0.8	1.9	1.32	32.7	1769	129

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7311-02C00250-U0BK8-00	2	2.5	7	0.8	1.8	1.24	11.0	155	36
28	7311-03C00250-U0BK8-00	3	2.5	7	0.8	1.8	1.24	11.6	195	39
29	7311-04C00250-U0BK8-00	4	2.5	7	0.8	1.8	1.24	12.5	240	42
30	7311-05C00250-U0BK8-00	5	2.5	7	0.8	1.8	1.24	13.6	285	47
31	7311-06C00250-U0BK8-00	6	2.5	7	0.8	1.8	1.24	14.6	330	51
32	7311-07C00250-U0BK8-00	7	2.5	7	0.8	1.8	1.24	14.6	360	51
33	7311-08C00250-U0BK8-00	8	2.5	7	0.8	1.8	1.24	16.2	409	57
34	7311-10C00250-U0BK8-00	10	2.5	7	0.8	1.8	1.24	18.2	497	65
35	7311-12C00250-U0BK8-00	12	2.5	7	0.8	1.8	1.24	18.8	585	67
36	7311-14C00250-U0BK8-00	14	2.5	7	0.8	1.8	1.24	19.7	662	71
37	7311-15C00250-U0BK8-00	15	2.5	7	0.8	1.8	1.24	20.7	692	75
38	7311-16C00250-U0BK8-00	16	2.5	7	0.8	1.8	1.24	20.7	726	75
39	7311-18C00250-U0BK8-00	18	2.5	7	0.8	1.8	1.24	21.8	810	79
40	7311-19C00250-U0BK8-00	19	2.5	7	0.8	1.8	1.24	21.8	840	79
41	7311-20C00250-U0BK8-00	20	2.5	7	0.8	1.8	1.24	23.0	886	84
42	7311-22C00250-U0BK8-00	22	2.5	7	0.8	1.8	1.24	24.2	964	89
43	7311-24C00250-U0BK8-00	24	2.5	7	0.8	1.8	1.24	25.4	1045	93
44	7311-25C00250-U0BK8-00	25	2.5	7	0.8	1.8	1.24	25.4	1080	93
45	7311-26C00250-U0BK8-00	26	2.5	7	0.8	1.8	1.24	25.4	1115	93
46	7311-30C00250-U0BK8-00	30	2.5	7	0.8	1.8	1.24	26.9	1265	99
47	7311-32C00250-U0BK8-00	32	2.5	7	0.8	1.8	1.24	27.9	1340	103
48	7311-35C00250-U0BK8-00	35	2.5	7	0.8	1.8	1.24	29.0	1453	108
49	7311-36C00250-U0BK8-00	36	2.5	7	0.8	1.8	1.24	29.0	1490	108
50	7311-40C00250-U0BK8-00	40	2.5	7	0.8	1.9	1.32	30.4	1650	113
51	7311-50C00250-U0BK8-00	50	2.5	7	0.8	2.0	1.40	34.3	2045	129
52	7311-61C00250-U0BK8-00	61	2.5	7	0.8	2.1	1.48	36.8	2465	138

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-02C00150-U0BK8-0A	2	1.5	7	0.8	1.8	1.24	10.2	130	33
2	7311-03C00150-U0BK8-0A	3	1.5	7	0.8	1.8	1.24	10.7	155	35
3	7311-04C00150-U0BK8-0A	4	1.5	7	0.8	1.8	1.24	11.5	190	38
4	7311-05C00150-U0BK8-0A	5	1.5	7	0.8	1.8	1.24	12.4	220	42
5	7311-06C00150-U0BK8-0A	6	1.5	7	0.8	1.8	1.24	13.3	255	45
6	7311-07C00150-U0BK8-0A	7	1.5	7	0.8	1.8	1.24	13.3	275	45
7	7311-08C00150-U0BK8-0A	8	1.5	7	0.8	1.8	1.24	14.8	315	51
8	7311-10C00150-U0BK8-0A	10	1.5	7	0.8	1.8	1.24	16.5	377	58
9	7311-12C00150-U0BK8-0A	12	1.5	7	0.8	1.8	1.24	17.0	443	60
10	7311-14C00150-U0BK8-0A	14	1.5	7	0.8	1.8	1.24	17.8	487	63
11	7311-15C00150-U0BK8-0A	15	1.5	7	0.8	1.8	1.24	18.7	518	67
12	7311-16C00150-U0BK8-0A	16	1.5	7	0.8	1.8	1.24	18.7	542	67
13	7311-18C00150-U0BK8-0A	18	1.5	7	0.8	1.8	1.24	19.7	605	71
14	7311-19C00150-U0BK8-0A	19	1.5	7	0.8	1.8	1.24	19.7	625	71
15	7311-20C00150-U0BK8-0A	20	1.5	7	0.8	1.8	1.24	20.7	656	75
16	7311-22C00150-U0BK8-0A	22	1.5	7	0.8	1.8	1.24	21.8	723	79
17	7311-24C00150-U0BK8-0A	24	1.5	7	0.8	1.8	1.24	22.9	775	83
18	7311-25C00150-U0BK8-0A	25	1.5	7	0.8	1.8	1.24	22.9	800	83
19	7311-26C00150-U0BK8-0A	26	1.5	7	0.8	1.8	1.24	22.9	825	83
20	7311-30C00150-U0BK8-0A	30	1.5	7	0.8	1.8	1.24	24.2	931	89
21	7311-32C00150-U0BK8-0A	32	1.5	7	0.8	1.8	1.24	25.1	991	92
22	7311-35C00150-U0BK8-0A	35	1.5	7	0.8	1.8	1.24	26.1	1074	96
23	7311-36C00150-U0BK8-0A	36	1.5	7	0.8	1.8	1.24	26.1	1094	96
24	7311-40C00150-U0BK8-0A	40	1.5	7	0.8	1.8	1.24	27.1	1199	100
25	7311-50C00150-U0BK8-0A	50	1.5	7	0.8	1.8	1.24	30.6	1483	120
26	7311-61C00150-U0BK8-0A	61	1.5	7	0.8	1.9	1.32	32.7	1769	129

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7311-02C00250-U0BK8-0A	2	2.5	7	0.8	1.8	1.24	11.0	155	36
28	7311-03C00250-U0BK8-0A	3	2.5	7	0.8	1.8	1.24	11.6	195	39
29	7311-04C00250-U0BK8-0A	4	2.5	7	0.8	1.8	1.24	12.5	240	42
30	7311-05C00250-U0BK8-0A	5	2.5	7	0.8	1.8	1.24	13.6	285	47
31	7311-06C00250-U0BK8-0A	6	2.5	7	0.8	1.8	1.24	14.6	330	51
32	7311-07C00250-U0BK8-0A	7	2.5	7	0.8	1.8	1.24	14.6	360	51
33	7311-08C00250-U0BK8-0A	8	2.5	7	0.8	1.8	1.24	16.2	409	57
34	7311-10C00250-U0BK8-0A	10	2.5	7	0.8	1.8	1.24	18.2	497	65
35	7311-12C00250-U0BK8-0A	12	2.5	7	0.8	1.8	1.24	18.8	585	67
36	7311-14C00250-U0BK8-0A	14	2.5	7	0.8	1.8	1.24	19.7	662	71
37	7311-15C00250-U0BK8-0A	15	2.5	7	0.8	1.8	1.24	20.7	692	75
38	7311-16C00250-U0BK8-0A	16	2.5	7	0.8	1.8	1.24	20.7	726	75
39	7311-18C00250-U0BK8-0A	18	2.5	7	0.8	1.8	1.24	21.8	810	79
40	7311-19C00250-U0BK8-0A	19	2.5	7	0.8	1.8	1.24	21.8	840	79
41	7311-20C00250-U0BK8-0A	20	2.5	7	0.8	1.8	1.24	23.0	886	84
42	7311-22C00250-U0BK8-0A	22	2.5	7	0.8	1.8	1.24	24.2	964	89
43	7311-24C00250-U0BK8-0A	24	2.5	7	0.8	1.8	1.24	25.4	1045	93
44	7311-25C00250-U0BK8-0A	25	2.5	7	0.8	1.8	1.24	25.4	1080	93
45	7311-26C00250-U0BK8-0A	26	2.5	7	0.8	1.8	1.24	25.4	1115	93
46	7311-30C00250-U0BK8-0A	30	2.5	7	0.8	1.8	1.24	26.9	1265	99
47	7311-32C00250-U0BK8-0A	32	2.5	7	0.8	1.8	1.24	27.9	1340	103
48	7311-35C00250-U0BK8-0A	35	2.5	7	0.8	1.8	1.24	29.0	1453	108
49	7311-36C00250-U0BK8-0A	36	2.5	7	0.8	1.8	1.24	29.0	1490	108
50	7311-40C00250-U0BK8-0A	40	2.5	7	0.8	1.8	1.24	30.4	1650	113
51	7311-50C00250-U0BK8-0A	50	2.5	7	0.8	1.9	1.32	34.3	2045	129
52	7311-61C00250-U0BK8-0A	61	2.5	7	0.8	2.0	1.40	36.8	2465	138

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-02C00150-U0BK8-NI	2	1.5	7	0.8	1.8	1.24	10.2	130	33
2	7311-03C00150-U0BK8-NI	3	1.5	7	0.8	1.8	1.24	10.7	155	35
3	7311-04C00150-U0BK8-NI	4	1.5	7	0.8	1.8	1.24	11.5	190	38
4	7311-05C00150-U0BK8-NI	5	1.5	7	0.8	1.8	1.24	12.4	220	42
5	7311-06C00150-U0BK8-NI	6	1.5	7	0.8	1.8	1.24	13.3	255	45
6	7311-07C00150-U0BK8-NI	7	1.5	7	0.8	1.8	1.24	13.3	275	45
7	7311-08C00150-U0BK8-NI	8	1.5	7	0.8	1.8	1.24	14.8	315	51
8	7311-10C00150-U0BK8-NI	10	1.5	7	0.8	1.8	1.24	16.5	377	58
9	7311-12C00150-U0BK8-NI	12	1.5	7	0.8	1.8	1.24	17.0	443	60
10	7311-14C00150-U0BK8-NI	14	1.5	7	0.8	1.8	1.24	17.8	487	63
11	7311-15C00150-U0BK8-NI	15	1.5	7	0.8	1.8	1.24	18.7	518	67
12	7311-16C00150-U0BK8-NI	16	1.5	7	0.8	1.8	1.24	18.7	542	67
13	7311-18C00150-U0BK8-NI	18	1.5	7	0.8	1.8	1.24	19.7	605	71
14	7311-19C00150-U0BK8-NI	19	1.5	7	0.8	1.8	1.24	19.7	625	71
15	7311-20C00150-U0BK8-NI	20	1.5	7	0.8	1.8	1.24	20.7	656	75
16	7311-22C00150-U0BK8-NI	22	1.5	7	0.8	1.8	1.24	21.8	723	79
17	7311-24C00150-U0BK8-NI	24	1.5	7	0.8	1.8	1.24	22.9	775	83
18	7311-25C00150-U0BK8-NI	25	1.5	7	0.8	1.8	1.24	22.9	800	83
19	7311-26C00150-U0BK8-NI	26	1.5	7	0.8	1.8	1.24	22.9	825	83
20	7311-30C00150-U0BK8-NI	30	1.5	7	0.8	1.8	1.24	24.2	931	89
21	7311-32C00150-U0BK8-NI	32	1.5	7	0.8	1.8	1.24	25.1	991	92
22	7311-35C00150-U0BK8-NI	35	1.5	7	0.8	1.8	1.24	26.1	1074	96
23	7311-36C00150-U0BK8-NI	36	1.5	7	0.8	1.8	1.24	26.1	1094	96
24	7311-40C00150-U0BK8-NI	40	1.5	7	0.8	1.8	1.24	27.1	1199	100
25	7311-50C00150-U0BK8-NI	50	1.5	7	0.8	1.8	1.24	30.6	1483	120
26	7311-61C00150-U0BK8-NI	61	1.5	7	0.8	1.9	1.32	32.7	1769	129

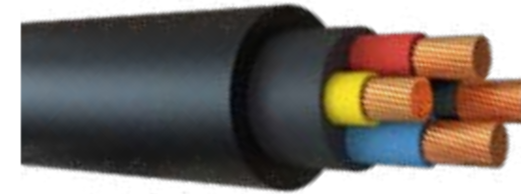


**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
27	7311-02C00250-U0BK8-NI	2	2.5	7	0.8	1.8	1.24	11.0	155	36
28	7311-03C00250-U0BK8-NI	3	2.5	7	0.8	1.8	1.24	11.6	195	39
29	7311-04C00250-U0BK8-NI	4	2.5	7	0.8	1.8	1.24	12.5	240	42
30	7311-05C00250-U0BK8-NI	5	2.5	7	0.8	1.8	1.24	13.6	285	47
31	7311-06C00250-U0BK8-NI	6	2.5	7	0.8	1.8	1.24	14.6	330	51
32	7311-07C00250-U0BK8-NI	7	2.5	7	0.8	1.8	1.24	14.6	360	51
33	7311-08C00250-U0BK8-NI	8	2.5	7	0.8	1.8	1.24	16.2	409	57
34	7311-10C00250-U0BK8-NI	10	2.5	7	0.8	1.8	1.24	18.2	497	65
35	7311-12C00250-U0BK8-NI	12	2.5	7	0.8	1.8	1.24	18.8	585	67
36	7311-14C00250-U0BK8-NI	14	2.5	7	0.8	1.8	1.24	19.7	662	71
37	7311-15C00250-U0BK8-NI	15	2.5	7	0.8	1.8	1.24	20.7	692	75
38	7311-16C00250-U0BK8-NI	16	2.5	7	0.8	1.8	1.24	20.7	726	75
39	7311-18C00250-U0BK8-NI	18	2.5	7	0.8	1.8	1.24	21.8	810	79
40	7311-19C00250-U0BK8-NI	19	2.5	7	0.8	1.8	1.24	21.8	840	79
41	7311-20C00250-U0BK8-NI	20	2.5	7	0.8	1.8	1.24	23.0	886	84
42	7311-22C00250-U0BK8-NI	22	2.5	7	0.8	1.8	1.24	24.2	964	89
43	7311-24C00250-U0BK8-NI	24	2.5	7	0.8	1.8	1.24	25.4	1045	93
44	7311-25C00250-U0BK8-NI	25	2.5	7	0.8	1.8	1.24	25.4	1080	93
45	7311-26C00250-U0BK8-NI	26	2.5	7	0.8	1.8	1.24	25.4	1115	93
46	7311-30C00250-U0BK8-NI	30	2.5	7	0.8	1.8	1.24	26.9	1265	99
47	7311-32C00250-U0BK8-NI	32	2.5	7	0.8	1.8	1.24	27.9	1340	103
48	7311-35C00250-U0BK8-NI	35	2.5	7	0.8	1.8	1.24	29.0	1453	108
49	7311-36C00250-U0BK8-NI	36	2.5	7	0.8	1.8	1.24	29.0	1490	108
50	7311-40C00250-U0BK8-NI	40	2.5	7	0.8	1.8	1.24	30.4	1650	113
51	7311-50C00250-U0BK8-NI	50	2.5	7	0.8	1.9	1.32	34.3	2045	129
52	7311-61C00250-U0BK8-NI	61	2.5	7	0.8	2.0	1.40	36.8	2465	138

**LV POWER, MULTI CORE, UN-ARMOURED, DOUBLE SHEATHED (SUBMERSIBLE) CABLE**  
CU/PVC/PVC/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and witching station, local distribution system, industrial plant, commercial building and submersible motor & pump.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer & extruded filled type sheath is provided over Assembly.
Inner Covering	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/PVC/PVC NO. OF CORES C X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

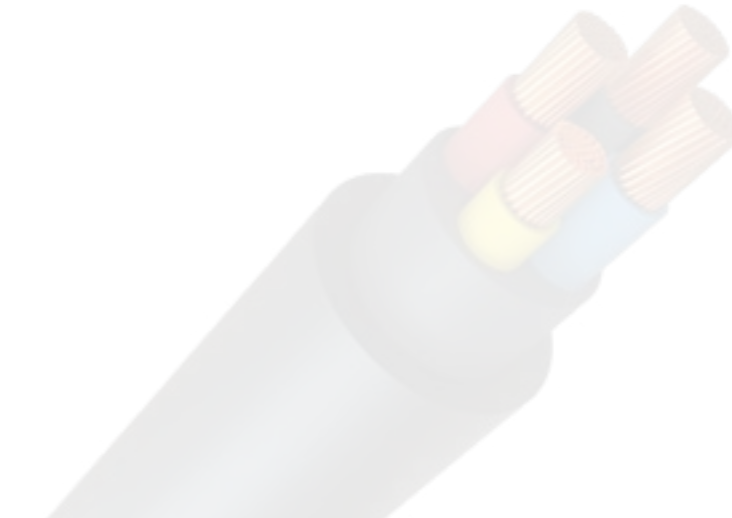
\*Other Insulation color available on request.

\*\*Other sheath color available on request.

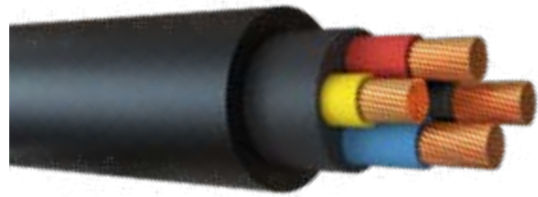
\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, IEC 60332-3-23 CAT C, UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

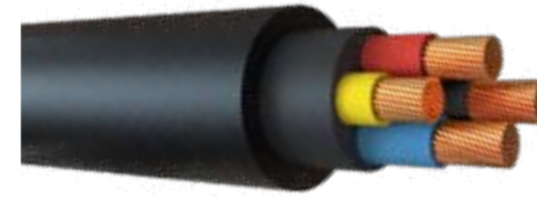


**TABLE: IEC 60332-1-2  
CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7311-02C00150-U0BK8-IRQ*	2C	1.5	7	0.8	1.8	1.24	11.8	202	40
2	7311-02C00250-U0BK8-IRQ*	2C	2.5	7	0.8	1.8	1.24	12.6	241	43
3	7311-02C00400-U0BK8-IRQ*	2C	4	7	1.0	1.8	1.24	14.4	324	50
4	7311-02C00600-U0BK8-IRQ*	2C	6	7	1.0	1.8	1.24	15.6	400	55
5	7311-02C01000-U0BK8-IRQ*	2C	10	7	1.0	1.8	1.24	17.5	540	62
6	73D1-02C01600-U0BK8-IRQ	2C	16	7	1.0	1.8	1.24	18.8	683	67
7	73D1-02C02500-U0BK8-IRQ	2C	25	7	1.2	1.8	1.24	22.0	975	80
8	73D1-02C03500-U0BK8-IRQ	2C	35	7	1.2	1.8	1.24	24.2	1250	89
9	73D1-02C05000-U0BK8-IRQ	2C	50	19	1.4	1.8	1.24	27.7	1650	102
10	73D1-02C07000-U0BK8-IRQ	2C	70	19	1.4	1.9	1.32	31.1	2205	122
11	73D1-02C09500-U0BK8-IRQ	2C	95	19	1.6	2.0	1.40	35.4	2915	147
12	73D1-02C12000-U0BK8-IRQ	2C	120	19	1.6	2.1	1.48	38.5	3570	168
13	73D1-02C15000-U0BK8-IRQ	2C	150	19	1.8	2.2	1.56	42.5	4375	195
14	73D1-02C18500-U0BK8-IRQ	2C	185	37	2.0	2.4	1.72	46.9	5345	235
15	73D1-02C24000-U0BK8-IRQ	2C	240	37	2.2	2.6	1.88	52.6	6890	285
16	7311-03C00150-U0BK8-IRQ*	3C	1.5	7	0.8	1.8	1.24	12.3	230	42
17	7311-03C00250-U0BK8-IRQ*	3C	2.5	7	0.8	1.8	1.24	13.2	278	45
18	7311-03C00400-U0BK8-IRQ*	3C	4	7	1.0	1.8	1.24	15.2	380	53
19	7311-03C00600-U0BK8-IRQ*	3C	6	7	1.0	1.8	1.24	16.5	479	58
20	7311-03C01000-U0BK8-IRQ*	3C	10	7	1.0	1.8	1.24	18.5	658	66
21	73D1-03C01600-U0BK8-IRQ	3C	16	7	1.0	1.8	1.24	19.9	850	72
22	73D1-03C02500-U0BK8-IRQ	3C	25	7	1.2	1.8	1.24	23.3	1225	85
23	73D1-03C03500-U0BK8-IRQ	3C	35	7	1.2	1.8	1.24	25.7	1590	95
24	73D1-03C05000-U0BK8-IRQ	3C	50	19	1.4	1.8	1.24	29.5	2085	110
25	7311-04C00150-U0BK8-IRQ*	4C	1.5	7	0.8	1.8	1.24	13.1	265	45
26	7311-04C00250-U0BK8-IRQ*	4C	2.5	7	0.8	1.8	1.24	14.1	327	49

**TABLE: IEC 60332-1-2  
CIRCULAR CONDUCTOR:**



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7311-04C00400-U0BK8-IRQ*	4C	4	7	1.0	1.8	1.24	16.3	453	57
28	7311-04C00600-U0BK8-IRQ*	4C	6	7	1.0	1.8	1.24	17.8	578	63
29	7311-04C01000-U0BK8-IRQ*	4C	10	7	1.0	1.8	1.24	20.0	805	72
30	73D1-04C01600-U0BK8-IRQ	4C	16	7	1.0	1.8	1.24	21.7	1058	79
31	73D1-04C02500-U0BK8-IRQ	4C	25	7	1.2	1.8	1.24	25.5	1535	94
32	73D1-04C03500-U0BK8-IRQ	4C	35	7	1.2	1.8	1.24	28.1	1955	104
33	73D1-04C05000-U0BK8-IRQ	4C	50	19	1.4	1.9	1.32	32.6	2655	128
34	7311-05C00150-U0BK8-IRQ-02*	5C	1.5	7	0.8	1.8	1.24	14.0	307	48
35	7311-05C00250-U0BK8-IRQ-02*	5C	2.5	7	0.8	1.8	1.24	15.2	385	53
36	7311-05C00400-U0BK8-IRQ-02*	5C	4	7	1.0	1.8	1.24	17.6	535	62
37	7311-05C00600-U0BK8-IRQ-02*	5C	6	7	1.0	1.8	1.24	19.2	687	69
38	7311-05C01000-U0BK8-IRQ-02*	5C	10	7	1.0	1.8	1.24	21.7	965	79
39	73D1-05C01600-U0BK8-IRQ-02	5C	16	7	1.0	1.8	1.24	23.5	1275	86
40	73D1-05C02500-U0BK8-IRQ-02	5C	25	7	1.2	1.8	1.24	27.8	1870	103
41	73D1-05C03500-U0BK8-IRQ-02	5C	35	7	1.2	1.9	1.32	30.9	2465	121
42	73D1-05C05000-U0BK8-IRQ-02	5C	50	19	1.4	2.0	1.40	35.9	3300	149
43	73D1-05C07000-U0BK8-IRQ-02	5C	70	19	1.4	2.2	1.56	40.8	4540	187
44	73D1-05C09500-U0BK8-IRQ-02	5C	95	19	1.6	2.4	1.72	46.7	6055	234
45	73D1-05C12000-U0BK8-IRQ-02	5C	120	19	1.6	2.5	1.80	50.8	7475	265

\*Non-Compacted conductor, all other compacted conductor

# LV POWER, MULTI CORE, UN-ARMoured DOUBLE SHEATHED CABLE

CU/PVC/PVC/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and witching station, local distribution system, industrial plant, commercial building and mountain area.

## CONSTRUCTION

Conductor	Sector shaped stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code*	3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Inner Covering	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/PVC/PVC NO. OF CORES C X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.  
\*\*Other sheath color available on request.  
\*\*\* Flame Retardant Property of cable will be as per requirement.  
Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, IEC 60332-3-23 CAT C, UV/Sunlight resistance & Oil resistance.  
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:

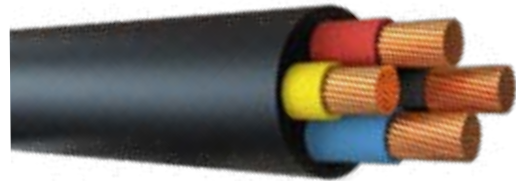


SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	73F1-03C02500-U0BK8-IRQ	3C	25	7	1.2	1.8	1.24	21.0	1040	76
2	73F1-03C03500-U0BK8-IRQ	3C	35	7	1.2	1.8	1.24	22.9	1347	83
3	73F1-03C05000-U0BK8-IRQ	3C	50	19	1.4	1.8	1.24	26.1	1795	96
4	73F1-03C07000-U0BK8-IRQ	3C	70	19	1.4	2.0	1.40	29.4	2458	120
5	73F1-03C09500-U0BK8-IRQ	3C	95	19	1.6	2.1	1.48	33.3	3253	144
6	73F1-03C12000-U0BK8-IRQ	3C	120	19	1.6	2.2	1.56	36.0	4012	163
7	73F1-03C15000-U0BK8-IRQ	3C	150	19	1.8	2.3	1.64	39.7	4935	189
8	73F1-03C18500-U0BK8-IRQ	3C	185	37	2.0	2.5	1.80	43.7	6020	226
9	73F1-03C24000-U0BK8-IRQ	3C	240	37	2.2	2.7	1.96	48.8	7822	274
10	73F1-04C02500-U0BK8-IRQ	4C	25	7	1.2	1.8	1.24	24.0	1355	88
11	73F1-04C03500-U0BK8-IRQ	4C	35	7	1.2	1.8	1.24	26.4	1769	97
12	73F1-04C05000-U0BK8-IRQ	4C	50	19	1.4	1.9	1.32	30.5	2394	119
13	73F1-04C07000-U0BK8-IRQ	4C	70	19	1.4	2.1	1.48	34.4	3265	149
14	73F1-04C09500-U0BK8-IRQ	4C	95	19	1.6	2.2	1.56	39.1	4330	178
15	73F1-04C12000-U0BK8-IRQ	4C	120	19	1.6	2.3	1.64	42.4	5345	203
16	73F1-04C15000-U0BK8-IRQ	4C	150	19	1.8	2.5	1.80	47.1	6592	245
17	73F1-04C18500-U0BK8-IRQ	4C	185	37	2.0	2.7	1.96	51.9	8075	292
18	73F1-04C24000-U0BK8-IRQ	4C	240	37	2.2	2.9	2.12	57.7	10425	349

# LV POWER, SINGLE/MULTI CORE, UNARMoured CABLE

CU/XLPE/PVC

SPECIFICATION: IEC 60502-1



## APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building.

## CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	1C: Black 2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling**	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Applicable only for Multi-Core cables.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE: IEC 60332-1-2

CIRCULAR CONDUCTOR:

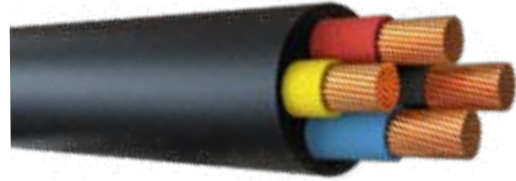


SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-01C00150-U0BK8-NI*	1C	1.5	7	0.7	1.4	0.92	5.8	50	14
2	7614-01C00250-U0BK8-NI*	1C	2.5	7	0.7	1.4	0.92	6.2	61	15
3	7614-01C00400-U0BK8-NI*	1C	4	7	0.7	1.4	0.92	6.7	75	16
4	7614-01C00600-U0BK8-NI*	1C	6	7	0.7	1.4	0.92	7.3	100	18
5	7614-01C01000-U0BK8-NI*	1C	10	7	0.7	1.4	0.92	8.3	150	21
6	76D4-01C01600-U0BK8-NI	1C	16	7	0.7	1.4	0.92	8.9	205	23
7	76D4-01C02500-U0BK8-NI	1C	25	7	0.9	1.4	0.92	10.5	300	28
8	76D4-01C03500-U0BK8-NI	1C	35	7	0.9	1.4	0.92	11.6	400	31
9	76D4-01C05000-U0BK8-NI	1C	50	19	1.0	1.4	0.92	13.1	525	36
10	76D4-01C07000-U0BK8-NI	1C	70	19	1.1	1.4	0.92	14.9	725	42
11	76D4-01C09500-U0BK8-NI	1C	95	19	1.1	1.5	1.00	16.7	970	47
12	76D4-01C12000-U0BK8-NI	1C	120	19	1.2	1.5	1.00	18.3	1215	55
13	76D4-01C15000-U0BK8-NI	1C	150	19	1.4	1.6	1.08	20.5	1500	66
14	76D4-01C18500-U0BK8-NI	1C	185	37	1.6	1.6	1.08	22.7	1850	73
15	76D4-01C24000-U0BK8-NI	1C	240	37	1.7	1.7	1.16	25.1	2385	87
16	76D4-01C30000-U0BK8-NI	1C	300	37	1.8	1.8	1.24	27.6	2975	102
17	76D4-01C40000-U0BK8-NI	1C	400	61	2.0	1.9	1.32	31.4	3775	123
18	76D4-01C50000-U0BK8-NI	1C	500	61	2.2	2.0	1.40	34.8	4800	144
13	76D4-01C63000-U0BK8-NI	1C	630	61	2.4	2.2	1.56	39.1	6200	178
14	76D4-01C80000-U0BK8-NI	1C	800	61	2.6	2.3	1.64	43.5	8100	208
15	76D4-1C100000-U0BK8-NI	1C	1000	61	2.8	2.4	1.72	48.7	10125	244
16	7614-01C80000-U0BK8-NI*	1C	800	91	2.6	2.3	1.64	46.9	8150	226
17	7614-1C100000-U0BK8-NI*	1C	1000	91	2.8	2.4	1.72	52.0	10200	262

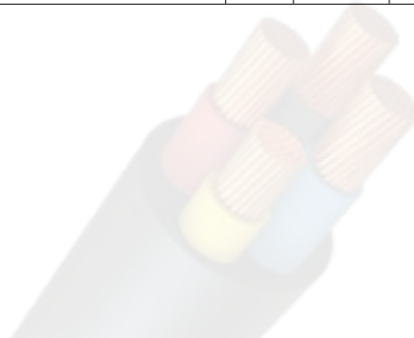
\*Non-Compacted circular conductor, other compacted circular conductor



**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-00	2C	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-02C00250-U0BK8-00	2C	2.5	7	0.7	1.8	1.24	10.6	135	35
3	7614-02C00400-U0BK8-00	2C	4	7	0.7	1.8	1.24	11.6	175	39
4	7614-02C00600-U0BK8-00	2C	6	7	0.7	1.8	1.24	12.8	230	43
5	7614-02C01000-U0BK8-00	2C	10	7	0.7	1.8	1.24	14.7	325	51
6	7614-03C00150-U0BK8-00	3C	1.5	7	0.7	1.8	1.24	10.3	140	34
7	7614-03C00250-U0BK8-00	3C	2.5	7	0.7	1.8	1.24	11.2	175	37
8	7614-03C00400-U0BK8-00	3C	4	7	0.7	1.8	1.24	12.3	230	42
9	7614-03C00600-U0BK8-00	3C	6	7	0.7	1.8	1.24	13.6	300	46
10	7614-03C01000-U0BK8-00	3C	10	7	0.7	1.8	1.24	15.6	440	55
11	7614-04C00150-U0BK8-00	4C	1.5	7	0.7	1.8	1.24	11.0	165	36
12	7614-04C00250-U0BK8-00	4C	2.5	7	0.7	1.8	1.24	12.1	210	41
13	7614-04C00400-U0BK8-00	4C	4	7	0.7	1.8	1.24	13.3	280	45
14	7614-04C00600-U0BK8-00	4C	6	7	0.7	1.8	1.24	14.7	375	51
15	7614-04C01000-U0BK8-00	4C	10	7	0.7	1.8	1.24	17.0	550	60
16	7614-05C00150-U0BK8-00-02	5C	1.5	7	0.7	1.8	1.24	11.9	190	40
17	7614-05C00250-U0BK8-00-02	5C	2.5	7	0.7	1.8	1.24	13.0	250	44
18	7614-05C00400-U0BK8-00-02	5C	4	7	0.7	1.8	1.24	14.4	330	50
19	7614-05C00600-U0BK8-00-02	5C	6	7	0.7	1.8	1.24	16.0	450	56
20	7614-05C01000-U0BK8-00-02	5C	10	7	0.7	1.8	1.24	18.5	675	66



**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:

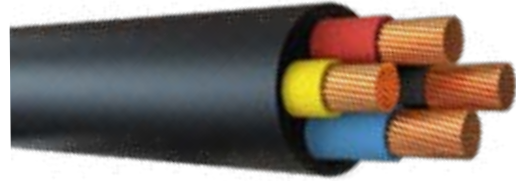


SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-0A	2C	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-02C00250-U0BK8-0A	2C	2.5	7	0.7	1.8	1.24	10.6	135	35
3	7614-02C00400-U0BK8-0A	2C	4	7	0.7	1.8	1.24	11.6	175	39
4	7614-02C00600-U0BK8-0A	2C	6	7	0.7	1.8	1.24	12.8	230	43
5	7614-02C01000-U0BK8-0A	2C	10	7	0.7	1.8	1.24	14.7	325	51
6	7614-03C00150-U0BK8-0A	3C	1.5	7	0.7	1.8	1.24	10.3	140	34
7	7614-03C00250-U0BK8-0A	3C	2.5	7	0.7	1.8	1.24	11.2	175	37
8	7614-03C00400-U0BK8-0A	3C	4	7	0.7	1.8	1.24	12.3	230	42
9	7614-03C00600-U0BK8-0A	3C	6	7	0.7	1.8	1.24	13.6	300	46
10	7614-03C01000-U0BK8-0A	3C	10	7	0.7	1.8	1.24	15.6	440	55
11	7614-04C00150-U0BK8-0A	4C	1.5	7	0.7	1.8	1.24	11.0	165	36
12	7614-04C00250-U0BK8-0A	4C	2.5	7	0.7	1.8	1.24	12.1	210	41
13	7614-04C00400-U0BK8-0A	4C	4	7	0.7	1.8	1.24	13.3	280	45
14	7614-04C00600-U0BK8-0A	4C	6	7	0.7	1.8	1.24	14.7	375	51
15	7614-04C01000-U0BK8-0A	4C	10	7	0.7	1.8	1.24	17.0	550	60
16	7614-05C00150-U0BK8-0A-02	5C	1.5	7	0.7	1.8	1.24	11.9	190	40
17	7614-05C00250-U0BK8-0A-02	5C	2.5	7	0.7	1.8	1.24	13.0	250	44
18	7614-05C00400-U0BK8-0A-02	5C	4	7	0.7	1.8	1.24	14.4	330	50
19	7614-05C00600-U0BK8-0A-02	5C	6	7	0.7	1.8	1.24	16.0	450	56
20	7614-05C01000-U0BK8-0A-02	5C	10	7	0.7	1.8	1.24	18.5	675	66



**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	7614-02C00150-U0BK8-NI	2C	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-02C00250-U0BK8-NI	2C	2.5	7	0.7	1.8	1.24	10.6	135	35
3	7614-02C00400-U0BK8-NI	2C	4	7	0.7	1.8	1.24	11.6	175	39
4	7614-02C00600-U0BK8-NI	2C	6	7	0.7	1.8	1.24	12.8	230	43
5	7614-02C01000-U0BK8-NI	2C	10	7	0.7	1.8	1.24	14.7	325	51
6	7614-03C00150-U0BK8-NI	3C	1.5	7	0.7	1.8	1.24	10.3	140	34
7	7614-03C00250-U0BK8-NI	3C	2.5	7	0.7	1.8	1.24	11.2	175	37
8	7614-03C00400-U0BK8-NI	3C	4	7	0.7	1.8	1.24	12.3	230	42
9	7614-03C00600-U0BK8-NI	3C	6	7	0.7	1.8	1.24	13.6	300	46
10	7614-03C01000-U0BK8-NI	3C	10	7	0.7	1.8	1.24	15.6	440	55
11	7614-04C00150-U0BK8-NI	4C	1.5	7	0.7	1.8	1.24	11.0	165	36
12	7614-04C00250-U0BK8-NI	4C	2.5	7	0.7	1.8	1.24	12.1	210	41
13	7614-04C00400-U0BK8-NI	4C	4	7	0.7	1.8	1.24	13.3	280	45
14	7614-04C00600-U0BK8-NI	4C	6	7	0.7	1.8	1.24	14.7	375	51
15	7614-04C01000-U0BK8-NI	4C	10	7	0.7	1.8	1.24	17.0	550	60
16	7614-05C00150-U0BK8-NI-02	5C	1.5	7	0.7	1.8	1.24	11.9	190	40
17	7614-05C00250-U0BK8-NI-02	5C	2.5	7	0.7	1.8	1.24	13.0	250	44
18	7614-05C00400-U0BK8-NI-02	5C	4	7	0.7	1.8	1.24	14.4	330	50
19	7614-05C00600-U0BK8-NI-02	5C	6	7	0.7	1.8	1.24	16.0	450	56
20	7614-05C01000-U0BK8-NI-02	5C	10	7	0.7	1.8	1.24	18.5	675	66

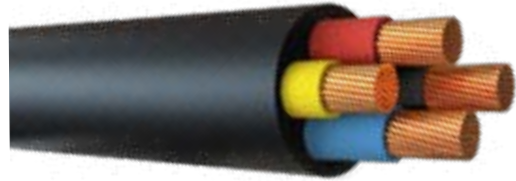
**TABLE: IEC 60332-3-24 (CAT C)**

COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76D4-02C01600-U0BK8-00	2C	16	7	0.7	1.8	1.24	15.8	440	55
2	76D4-02C02500-U0BK8-00	2C	25	7	0.9	1.8	1.24	19.2	640	69
3	76D4-02C03500-U0BK8-00	2C	35	7	0.9	1.8	1.24	21.4	845	78
4	76D4-02C05000-U0BK8-00	2C	50	19	1.0	1.8	1.24	24.5	1110	90
5	76D4-02C07000-U0BK8-00	2C	70	19	1.1	1.8	1.24	27.9	1520	103
6	76D4-02C09500-U0BK8-00	2C	95	19	1.1	1.9	1.32	31.4	2010	123
7	76D4-02C12000-U0BK8-00	2C	120	19	1.2	2.0	1.40	34.9	2530	145
8	76D4-02C15000-U0BK8-00	2C	150	19	1.4	2.2	1.56	39.1	3125	178
9	76D4-02C18500-U0BK8-00	2C	185	37	1.6	2.3	1.64	43.3	3815	207
10	76D4-02C24000-U0BK8-00	2C	240	37	1.7	2.5	1.80	48.6	4975	253
11	76D4-02C30000-U0BK8-00	2C	300	37	1.8	2.6	1.88	53.5	6225	291
12	76D4-02C40000-U0BK8-00	2C	400	61	2.0	2.9	2.12	61.2	7875	372
13	76D4-03C01600-U0BK8-00	3C	16	7	0.7	1.8	1.24	17.0	600	60
14	76D4-03C02500-U0BK8-00	3C	25	7	0.9	1.8	1.24	20.4	885	74
15	76D4-03C03500-U0BK8-00	3C	35	7	0.9	1.8	1.24	22.8	1185	83
16	76D4-04C01600-U0BK8-00	4C	16	7	0.7	1.8	1.24	18.6	770	66
17	76D4-05C01600-U0BK8-00-02	5C	16	7	0.7	1.8	1.24	20.1	935	72
18	76D4-05C02500-U0BK8-00-02	5C	25	7	0.9	1.8	1.24	24.6	1400	90
19	76D4-05C03500-U0BK8-00-02	5C	35	7	0.9	1.8	1.24	27.5	1885	102
20	76D4-05C05000-U0BK8-00-02	5C	50	19	1.0	1.9	1.32	31.9	2550	125
21	76D4-05C07000-U0BK8-00-02	5C	70	19	1.1	2.1	1.48	37.0	3575	161
22	76D4-05C09500-U0BK8-00-02	5C	95	19	1.1	2.2	1.56	41.6	4750	191
23	76D4-05C12000-U0BK8-00-02	5C	120	19	1.2	2.4	1.72	46.4	6000	232

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76D4-02C01600-U0BK8-0A	2C	16	7	0.7	1.8	1.24	15.8	440	55
2	76D4-02C02500-U0BK8-0A	2C	25	7	0.9	1.8	1.24	19.2	640	69
3	76D4-02C03500-U0BK8-0A	2C	35	7	0.9	1.8	1.24	21.4	845	78
4	76D4-02C05000-U0BK8-0A	2C	50	19	1.0	1.8	1.24	24.5	1110	90
5	76D4-02C07000-U0BK8-0A	2C	70	19	1.1	1.8	1.24	27.9	1520	103
6	76D4-02C09500-U0BK8-0A	2C	95	19	1.1	1.9	1.32	31.4	2010	123
7	76D4-02C12000-U0BK8-0A	2C	120	19	1.2	2.0	1.40	34.9	2530	145
8	76D4-02C15000-U0BK8-0A	2C	150	19	1.4	2.2	1.56	39.1	3125	178
9	76D4-02C18500-U0BK8-0A	2C	185	37	1.6	2.3	1.64	43.3	3815	207
10	76D4-02C24000-U0BK8-0A	2C	240	37	1.7	2.5	1.80	48.6	4975	253
11	76D4-02C30000-U0BK8-0A	2C	300	37	1.8	2.6	1.88	53.5	6225	291
12	76D4-02C40000-U0BK8-0A	2C	400	61	2.0	2.9	2.12	61.2	7875	372
13	76D4-03C01600-U0BK8-0A	3C	16	7	0.7	1.8	1.24	17.0	600	60
14	76D4-03C02500-U0BK8-0A	3C	25	7	0.9	1.8	1.24	20.4	885	74
15	76D4-03C03500-U0BK8-0A	3C	35	7	0.9	1.8	1.24	22.8	1185	83
16	76D4-04C01600-U0BK8-0A	4C	16	7	0.7	1.8	1.24	18.6	770	66
17	76D4-05C01600-U0BK8-0A-02	5C	16	7	0.7	1.8	1.24	20.1	935	72
18	76D4-05C02500-U0BK8-0A-02	5C	25	7	0.9	1.8	1.24	24.6	1400	90
19	76D4-05C03500-U0BK8-0A-02	5C	35	7	0.9	1.8	1.24	27.5	1885	102
20	76D4-05C05000-U0BK8-0A-02	5C	50	19	1.0	1.9	1.32	31.9	2550	125
21	76D4-05C07000-U0BK8-0A-02	5C	70	19	1.1	2.1	1.48	37.0	3575	161
22	76D4-05C09500-U0BK8-0A-02	5C	95	19	1.1	2.2	1.56	41.6	4750	191
23	76D4-05C12000-U0BK8-0A-02	5C	120	19	1.2	2.4	1.72	46.4	6000	232

**TABLE: IEC 60332-1-2**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76D4-02C01600-U0BK8-NI	2C	16	7	0.7	1.8	1.24	15.8	440	55
2	76D4-02C02500-U0BK8-NI	2C	25	7	0.9	1.8	1.24	19.2	640	69
3	76D4-02C03500-U0BK8-NI	2C	35	7	0.9	1.8	1.24	21.4	845	78
4	76D4-02C05000-U0BK8-NI	2C	50	19	1.0	1.8	1.24	24.5	1110	90
5	76D4-02C07000-U0BK8-NI	2C	70	19	1.1	1.8	1.24	27.9	1520	103
6	76D4-02C09500-U0BK8-NI	2C	95	19	1.1	1.9	1.32	31.4	2010	123
7	76D4-02C12000-U0BK8-NI	2C	120	19	1.2	2.0	1.40	34.9	2530	145
8	76D4-02C15000-U0BK8-NI	2C	150	19	1.4	2.2	1.56	39.1	3125	178
9	76D4-02C18500-U0BK8-NI	2C	185	37	1.6	2.3	1.64	43.3	3815	207
10	76D4-02C24000-U0BK8-NI	2C	240	37	1.7	2.5	1.80	48.6	4975	253
11	76D4-02C30000-U0BK8-NI	2C	300	37	1.8	2.6	1.88	53.5	6225	291
12	76D4-02C40000-U0BK8-NI	2C	400	61	2.0	2.9	2.12	61.2	7875	372
13	76D4-03C01600-U0BK8-NI	3C	16	7	0.7	1.8	1.24	17.0	600	60
14	76D4-03C02500-U0BK8-NI	3C	25	7	0.9	1.8	1.24	20.4	885	74
15	76D4-03C03500-U0BK8-NI	3C	35	7	0.9	1.8	1.24	22.8	1185	83
16	76D4-04C01600-U0BK8-NI	4C	16	7	0.7	1.8	1.24	18.6	770	66
17	76D4-05C01600-U0BK8-NI-02	5C	16	7	0.7	1.8	1.24	20.1	935	72
18	76D4-05C02500-U0BK8-NI-02	5C	25	7	0.9	1.8	1.24	24.6	1400	90
19	76D4-05C03500-U0BK8-NI-02	5C	35	7	0.9	1.8	1.24	27.5	1885	102
20	76D4-05C05000-U0BK8-NI-02	5C	50	19	1.0	1.9	1.32	31.9	2550	125
21	76D4-05C07000-U0BK8-NI-02	5C	70	19	1.1	2.1	1.48	37.0	3575	161
22	76D4-05C09500-U0BK8-NI-02	5C	95	19	1.1	2.2	1.56	41.6	4750	191
23	76D4-05C12000-U0BK8-NI-02	5C	120	19	1.2	2.4	1.72	46.4	6000	232

**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76F4-03C02500-U0BK8-00	3C	25	7	0.9	1.8	1.24	17.5	835	62
2	76F4-03C03500-U0BK8-00	3C	35	7	0.9	1.8	1.24	19.4	1120	70
3	76F4-03C05000-U0BK8-00	3C	50	19	1.0	1.8	1.24	22.2	1510	81
4	76F4-03C07000-U0BK8-00	3C	70	19	1.1	1.9	1.32	25.5	2125	93
5	76F4-03C09500-U0BK8-00	3C	95	19	1.1	2.0	1.40	28.6	2820	111
6	76F4-03C12000-U0BK8-00	3C	120	19	1.2	2.1	1.48	31.7	3560	130
7	76F4-03C15000-U0BK8-00	3C	150	19	1.4	2.3	1.64	35.6	4400	153
8	76F4-03C18500-U0BK8-00	3C	185	37	1.6	2.4	1.72	39.4	5425	178
9	76F4-03C24000-U0BK8-00	3C	240	37	1.7	2.6	1.88	44.1	7075	218
10	76F4-03C30000-U0BK8-00	3C	300	37	1.8	2.8	2.04	48.7	8975	251
11	76F4-03C40000-U0BK8-00	3C	400	61	2.0	3.0	2.20	55.5	11320	310
12	76F4-04C02500-U0BK8-00	4C	25	7	0.9	1.8	1.24	20.4	1100	74
13	76F4-04C03500-U0BK8-00	4C	35	7	0.9	1.8	1.24	22.8	1475	83
14	76F4-04C05000-U0BK8-00	4C	50	19	1.0	1.9	1.32	26.5	2025	97
15	76F4-04C07000-U0BK8-00	4C	70	19	1.1	2.0	1.40	30.5	2825	119
16	76F4-04C09500-U0BK8-00	4C	95	19	1.1	2.1	1.48	34.2	3765	148
17	76F4-04C12000-U0BK8-00	4C	120	19	1.2	2.3	1.64	38.2	4775	173
18	76F4-04C15000-U0BK8-00	4C	150	19	1.4	2.4	1.72	42.7	5895	203
19	76F4-04C18500-U0BK8-00	4C	185	37	1.6	2.6	1.88	47.5	7285	246
20	76F4-04C24000-U0BK8-00	4C	240	37	1.7	2.8	2.04	53.2	9490	299
21	76F4-04C30000-U0BK8-00	4C	300	37	1.8	3.0	2.20	58.8	11965	355
22	76F4-04C40000-U0BK8-00	4C	400	61	2.0	3.3	2.44	67.3	15175	435

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	76F4-03C02500-U0BK8-0A	3C	25	7	0.9	1.8	1.24	17.5	835	62
2	76F4-03C03500-U0BK8-0A	3C	35	7	0.9	1.8	1.24	19.4	1120	70
3	76F4-03C05000-U0BK8-0A	3C	50	19	1.0	1.8	1.24	22.2	1510	81
4	76F4-03C07000-U0BK8-0A	3C	70	19	1.1	1.9	1.32	25.5	2125	93
5	76F4-03C09500-U0BK8-0A	3C	95	19	1.1	2.0	1.40	28.6	2820	111
6	76F4-03C12000-U0BK8-0A	3C	120	19	1.2	2.1	1.48	31.7	3560	130
7	76F4-03C15000-U0BK8-0A	3C	150	19	1.4	2.3	1.64	35.6	4400	153
8	76F4-03C18500-U0BK8-0A	3C	185	37	1.6	2.4	1.72	39.4	5425	178
9	76F4-03C24000-U0BK8-0A	3C	240	37	1.7	2.6	1.88	44.1	7075	218
10	76F4-03C30000-U0BK8-0A	3C	300	37	1.8	2.8	2.04	48.7	8975	251
11	76F4-03C40000-U0BK8-0A	3C	400	61	2.0	3.0	2.20	55.5	11320	310
12	76F4-04C02500-U0BK8-0A	4C	25	7	0.9	1.8	1.24	20.4	1100	74
13	76F4-04C03500-U0BK8-0A	4C	35	7	0.9	1.8	1.24	22.8	1475	83
14	76F4-04C05000-U0BK8-0A	4C	50	19	1.0	1.9	1.32	26.5	2025	97
15	76F4-04C07000-U0BK8-0A	4C	70	19	1.1	2.0	1.40	30.5	2825	119
16	76F4-04C09500-U0BK8-0A	4C	95	19	1.1	2.1	1.48	34.2	3765	148
17	76F4-04C12000-U0BK8-0A	4C	120	19	1.2	2.3	1.64	38.2	4775	173
18	76F4-04C15000-U0BK8-0A	4C	150	19	1.4	2.4	1.72	42.7	5895	203
19	76F4-04C18500-U0BK8-0A	4C	185	37	1.6	2.6	1.88	47.5	7285	246
20	76F4-04C24000-U0BK8-0A	4C	240	37	1.7	2.8	2.04	53.2	9490	299
21	76F4-04C30000-U0BK8-0A	4C	300	37	1.8	3.0	2.20	58.8	11965	355
22	76F4-04C40000-U0BK8-0A	4C	400	61	2.0	3.3	2.44	67.3	15175	435



**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	76F4-03C02500-U0BK8-NI	3C	25	7	0.9	1.8	1.24	17.5	835	62
2	76F4-03C03500-U0BK8-NI	3C	35	7	0.9	1.8	1.24	19.4	1120	70
3	76F4-03C05000-U0BK8-NI	3C	50	19	1.0	1.8	1.24	22.2	1510	81
4	76F4-03C07000-U0BK8-NI	3C	70	19	1.1	1.9	1.32	25.5	2125	93
5	76F4-03C09500-U0BK8-NI	3C	95	19	1.1	2.0	1.40	28.6	2820	111
6	76F4-03C12000-U0BK8-NI	3C	120	19	1.2	2.1	1.48	31.7	3560	130
7	76F4-03C15000-U0BK8-NI	3C	150	19	1.4	2.3	1.64	35.6	4400	153
8	76F4-03C18500-U0BK8-NI	3C	185	37	1.6	2.4	1.72	39.4	5425	178
9	76F4-03C24000-U0BK8-NI	3C	240	37	1.7	2.6	1.88	44.1	7075	218
10	76F4-03C30000-U0BK8-NI	3C	300	37	1.8	2.8	2.04	48.7	8975	251
11	76F4-03C40000-U0BK8-NI	3C	400	61	2.0	3.0	2.20	55.5	11320	310
12	76F4-04C02500-U0BK8-NI	4C	25	7	0.9	1.8	1.24	20.4	1100	74
13	76F4-04C03500-U0BK8-NI	4C	35	7	0.9	1.8	1.24	22.8	1475	83
14	76F4-04C05000-U0BK8-NI	4C	50	19	1.0	1.9	1.32	26.5	2025	97
15	76F4-04C07000-U0BK8-NI	4C	70	19	1.1	2.0	1.40	30.5	2825	119
16	76F4-04C09500-U0BK8-NI	4C	95	19	1.1	2.1	1.48	34.2	3765	148
17	76F4-04C12000-U0BK8-NI	4C	120	19	1.2	2.3	1.64	38.2	4775	173
18	76F4-04C15000-U0BK8-NI	4C	150	19	1.4	2.4	1.72	42.7	5895	203
19	76F4-04C18500-U0BK8-NI	4C	185	37	1.6	2.6	1.88	47.5	7285	246
20	76F4-04C24000-U0BK8-NI	4C	240	37	1.7	2.8	2.04	53.2	9490	299
21	76F4-04C30000-U0BK8-NI	4C	300	37	1.8	3.0	2.20	58.8	11965	355
22	76F4-04C40000-U0BK8-NI	4C	400	61	2.0	3.3	2.44	67.3	15175	435

**CONTROL, MULTI CORE, UNARMOURED CABLE**  
CU/XLPE/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C & above: Black core with Number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\* Other sheath color available on request.

\*\*\*Flame Retardant Property of cable will be as per requirement.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-00	2	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-03C00150-U0BK8-00	3	1.5	7	0.7	1.8	1.24	10.3	140	34
3	7614-04C00150-U0BK8-00	4	1.5	7	0.7	1.8	1.24	11.0	165	36
4	7614-05C00150-U0BK8-00	5	1.5	7	0.7	1.8	1.24	11.9	190	40
5	7614-06C00150-U0BK8-00	6	1.5	7	0.7	1.8	1.24	12.7	222	43
6	7614-07C00150-U0BK8-00	7	1.5	7	0.7	1.8	1.24	12.7	238	43
7	7614-08C00150-U0BK8-00	8	1.5	7	0.7	1.8	1.24	14.1	272	49
8	7614-10C00150-U0BK8-00	10	1.5	7	0.7	1.8	1.24	15.7	325	55
9	7614-12C00150-U0BK8-00	12	1.5	7	0.7	1.8	1.24	16.2	382	57
10	7614-14C00150-U0BK8-00	14	1.5	7	0.7	1.8	1.24	16.9	415	60
11	7614-15C00150-U0BK8-00	15	1.5	7	0.7	1.8	1.24	17.8	444	63
12	7614-16C00150-U0BK8-00	16	1.5	7	0.7	1.8	1.24	17.8	463	63
13	7614-18C00150-U0BK8-00	18	1.5	7	0.7	1.8	1.24	18.7	514	67
14	7614-19C00150-U0BK8-00	19	1.5	7	0.7	1.8	1.24	18.7	530	67
15	7614-20C00150-U0BK8-00	20	1.5	7	0.7	1.8	1.24	19.7	559	71
16	7614-22C00150-U0BK8-00	22	1.5	7	0.7	1.8	1.24	20.7	615	75
17	7614-24C00150-U0BK8-00	24	1.5	7	0.7	1.8	1.24	21.7	655	79
18	7614-25C00150-U0BK8-00	25	1.5	7	0.7	1.8	1.24	21.7	675	79
19	7614-26C00150-U0BK8-00	26	1.5	7	0.7	1.8	1.24	21.7	696	79
20	7614-30C00150-U0BK8-00	30	1.5	7	0.7	1.8	1.24	22.9	783	83
21	7614-32C00150-U0BK8-00	32	1.5	7	0.7	1.8	1.24	23.8	837	87
22	7614-35C00150-U0BK8-00	35	1.5	7	0.7	1.8	1.24	24.7	903	91
23	7614-36C00150-U0BK8-00	36	1.5	7	0.7	1.8	1.24	24.7	918	91
24	7614-40C00150-U0BK8-00	40	1.5	7	0.7	1.8	1.24	25.7	1008	95
25	7614-50C00150-U0BK8-00	50	1.5	7	0.7	1.8	1.24	28.7	1225	106
26	7614-61C00150-U0BK8-00	61	1.5	7	0.7	1.9	1.32	30.9	1476	121

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7614-02C00250-U0BK8-00	2	2.5	7	0.7	1.8	1.24	10.6	135	35
28	7614-03C00250-U0BK8-00	3	2.5	7	0.7	1.8	1.24	11.2	175	37
29	7614-04C00250-U0BK8-00	4	2.5	7	0.7	1.8	1.24	12.1	210	41
30	7614-05C00250-U0BK8-00	5	2.5	7	0.7	1.8	1.24	13.0	250	44
31	7614-06C00250-U0BK8-00	6	2.5	7	0.7	1.8	1.24	14.0	292	48
32	7614-07C00250-U0BK8-00	7	2.5	7	0.7	1.8	1.24	14.0	317	48
33	7614-08C00250-U0BK8-00	8	2.5	7	0.7	1.8	1.24	15.5	360	54
34	7614-10C00250-U0BK8-00	10	2.5	7	0.7	1.8	1.24	17.4	436	62
35	7614-12C00250-U0BK8-00	12	2.5	7	0.7	1.8	1.24	17.9	510	64
36	7614-14C00250-U0BK8-00	14	2.5	7	0.7	1.8	1.24	18.8	578	67
37	7614-15C00250-U0BK8-00	15	2.5	7	0.7	1.8	1.24	19.8	605	71
38	7614-16C00250-U0BK8-00	16	2.5	7	0.7	1.8	1.24	19.8	634	71
39	7614-18C00250-U0BK8-00	18	2.5	7	0.7	1.8	1.24	20.8	704	75
40	7614-19C00250-U0BK8-00	19	2.5	7	0.7	1.8	1.24	20.8	729	75
41	7614-20C00250-U0BK8-00	20	2.5	7	0.7	1.8	1.24	21.9	767	80
42	7614-22C00250-U0BK8-00	22	2.5	7	0.7	1.8	1.24	23.1	838	84
43	7614-24C00250-U0BK8-00	24	2.5	7	0.7	1.8	1.24	24.2	905	89
44	7614-25C00250-U0BK8-00	25	2.5	7	0.7	1.8	1.24	24.2	935	89
45	7614-26C00250-U0BK8-00	26	2.5	7	0.7	1.8	1.24	24.2	965	89
46	7614-30C00250-U0BK8-00	30	2.5	7	0.7	1.8	1.24	25.6	1092	94
47	7614-32C00250-U0BK8-00	32	2.5	7	0.7	1.8	1.24	26.6	1159	98
48	7614-35C00250-U0BK8-00	35	2.5	7	0.7	1.8	1.24	27.6	1253	102
49	7614-36C00250-U0BK8-00	36	2.5	7	0.7	1.8	1.24	27.6	1284	102
50	7614-40C00250-U0BK8-00	40	2.5	7	0.7	1.8	1.24	28.7	1405	106
51	7614-50C00250-U0BK8-00	50	2.5	7	0.7	1.9	1.32	32.4	1742	121
52	7614-61C00250-U0BK8-00	61	2.5	7	0.7	2.0	1.40	34.8	2100	131

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-0A	2	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-03C00150-U0BK8-0A	3	1.5	7	0.7	1.8	1.24	10.3	140	34
3	7614-04C00150-U0BK8-0A	4	1.5	7	0.7	1.8	1.24	11.0	165	36
4	7614-05C00150-U0BK8-0A	5	1.5	7	0.7	1.8	1.24	11.9	190	40
5	7614-06C00150-U0BK8-0A	6	1.5	7	0.7	1.8	1.24	12.7	222	43
6	7614-07C00150-U0BK8-0A	7	1.5	7	0.7	1.8	1.24	12.7	238	43
7	7614-08C00150-U0BK8-0A	8	1.5	7	0.7	1.8	1.24	14.1	272	49
8	7614-10C00150-U0BK8-0A	10	1.5	7	0.7	1.8	1.24	15.7	325	55
9	7614-12C00150-U0BK8-0A	12	1.5	7	0.7	1.8	1.24	16.2	382	57
10	7614-14C00150-U0BK8-0A	14	1.5	7	0.7	1.8	1.24	16.9	415	60
11	7614-15C00150-U0BK8-0A	15	1.5	7	0.7	1.8	1.24	17.8	444	63
12	7614-16C00150-U0BK8-0A	16	1.5	7	0.7	1.8	1.24	17.8	463	63
13	7614-18C00150-U0BK8-0A	18	1.5	7	0.7	1.8	1.24	18.7	514	67
14	7614-19C00150-U0BK8-0A	19	1.5	7	0.7	1.8	1.24	18.7	530	67
15	7614-20C00150-U0BK8-0A	20	1.5	7	0.7	1.8	1.24	19.7	559	71
16	7614-22C00150-U0BK8-0A	22	1.5	7	0.7	1.8	1.24	20.7	615	75
17	7614-24C00150-U0BK8-0A	24	1.5	7	0.7	1.8	1.24	21.7	655	79
18	7614-25C00150-U0BK8-0A	25	1.5	7	0.7	1.8	1.24	21.7	675	79
19	7614-26C00150-U0BK8-0A	26	1.5	7	0.7	1.8	1.24	21.7	696	79
20	7614-30C00150-U0BK8-0A	30	1.5	7	0.7	1.8	1.24	22.9	783	83
21	7614-32C00150-U0BK8-0A	32	1.5	7	0.7	1.8	1.24	23.8	837	87
22	7614-35C00150-U0BK8-0A	35	1.5	7	0.7	1.8	1.24	24.7	903	91
23	7614-36C00150-U0BK8-0A	36	1.5	7	0.7	1.8	1.24	24.7	918	91
24	7614-40C00150-U0BK8-0A	40	1.5	7	0.7	1.8	1.24	25.7	1008	95
25	7614-50C00150-U0BK8-0A	50	1.5	7	0.7	1.8	1.24	28.7	1225	106
26	7614-61C00150-U0BK8-0A	61	1.5	7	0.7	1.9	1.32	30.9	1476	121

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7614-02C00250-U0BK8-0A	2	2.5	7	0.7	1.8	1.24	10.6	135	35
28	7614-03C00250-U0BK8-0A	3	2.5	7	0.7	1.8	1.24	11.2	175	37
29	7614-04C00250-U0BK8-0A	4	2.5	7	0.7	1.8	1.24	12.1	210	41
30	7614-05C00250-U0BK8-0A	5	2.5	7	0.7	1.8	1.24	13.0	250	44
31	7614-06C00250-U0BK8-0A	6	2.5	7	0.7	1.8	1.24	14.0	292	48
32	7614-07C00250-U0BK8-0A	7	2.5	7	0.7	1.8	1.24	14.0	317	48
33	7614-08C00250-U0BK8-0A	8	2.5	7	0.7	1.8	1.24	15.5	360	54
34	7614-10C00250-U0BK8-0A	10	2.5	7	0.7	1.8	1.24	17.4	436	62
35	7614-12C00250-U0BK8-0A	12	2.5	7	0.7	1.8	1.24	17.9	510	64
36	7614-14C00250-U0BK8-0A	14	2.5	7	0.7	1.8	1.24	18.8	578	67
37	7614-15C00250-U0BK8-0A	15	2.5	7	0.7	1.8	1.24	19.8	605	71
38	7614-16C00250-U0BK8-0A	16	2.5	7	0.7	1.8	1.24	19.8	634	71
39	7614-18C00250-U0BK8-0A	18	2.5	7	0.7	1.8	1.24	20.8	704	75
40	7614-19C00250-U0BK8-0A	19	2.5	7	0.7	1.8	1.24	20.8	729	75
41	7614-20C00250-U0BK8-0A	20	2.5	7	0.7	1.8	1.24	21.9	767	80
42	7614-22C00250-U0BK8-0A	22	2.5	7	0.7	1.8	1.24	23.1	838	84
43	7614-24C00250-U0BK8-0A	24	2.5	7	0.7	1.8	1.24	24.2	905	89
44	7614-25C00250-U0BK8-0A	25	2.5	7	0.7	1.8	1.24	24.2	935	89
45	7614-26C00250-U0BK8-0A	26	2.5	7	0.7	1.8	1.24	24.2	965	89
46	7614-30C00250-U0BK8-0A	30	2.5	7	0.7	1.8	1.24	25.6	1092	94
47	7614-32C00250-U0BK8-0A	32	2.5	7	0.7	1.8	1.24	26.6	1159	98
48	7614-35C00250-U0BK8-0A	35	2.5	7	0.7	1.8	1.24	27.6	1253	102
49	7614-36C00250-U0BK8-0A	36	2.5	7	0.7	1.8	1.24	27.6	1284	102
50	7614-40C00250-U0BK8-0A	40	2.5	7	0.7	1.8	1.24	28.7	1405	106
51	7614-50C00250-U0BK8-0A	50	2.5	7	0.7	1.9	1.32	32.4	1742	121
52	7614-61C00250-U0BK8-0A	61	2.5	7	0.7	2.0	1.40	34.8	2100	131

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-NI	2	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-03C00150-U0BK8-NI	3	1.5	7	0.7	1.8	1.24	10.3	140	34
3	7614-04C00150-U0BK8-NI	4	1.5	7	0.7	1.8	1.24	11.0	165	36
4	7614-05C00150-U0BK8-NI	5	1.5	7	0.7	1.8	1.24	11.9	190	40
5	7614-06C00150-U0BK8-NI	6	1.5	7	0.7	1.8	1.24	12.7	222	43
6	7614-07C00150-U0BK8-NI	7	1.5	7	0.7	1.8	1.24	12.7	238	43
7	7614-08C00150-U0BK8-NI	8	1.5	7	0.7	1.8	1.24	14.1	272	49
8	7614-10C00150-U0BK8-NI	10	1.5	7	0.7	1.8	1.24	15.7	325	55
9	7614-12C00150-U0BK8-NI	12	1.5	7	0.7	1.8	1.24	16.2	382	57
10	7614-14C00150-U0BK8-NI	14	1.5	7	0.7	1.8	1.24	16.9	415	60
11	7614-15C00150-U0BK8-NI	15	1.5	7	0.7	1.8	1.24	17.8	444	63
12	7614-16C00150-U0BK8-NI	16	1.5	7	0.7	1.8	1.24	17.8	463	63
13	7614-18C00150-U0BK8-NI	18	1.5	7	0.7	1.8	1.24	18.7	514	67
14	7614-19C00150-U0BK8-NI	19	1.5	7	0.7	1.8	1.24	18.7	530	67
15	7614-20C00150-U0BK8-NI	20	1.5	7	0.7	1.8	1.24	19.7	559	71
16	7614-22C00150-U0BK8-NI	22	1.5	7	0.7	1.8	1.24	20.7	615	75
17	7614-24C00150-U0BK8-NI	24	1.5	7	0.7	1.8	1.24	21.7	655	79
18	7614-25C00150-U0BK8-NI	25	1.5	7	0.7	1.8	1.24	21.7	675	79
19	7614-26C00150-U0BK8-NI	26	1.5	7	0.7	1.8	1.24	21.7	696	79
20	7614-30C00150-U0BK8-NI	30	1.5	7	0.7	1.8	1.24	22.9	783	83
21	7614-32C00150-U0BK8-NI	32	1.5	7	0.7	1.8	1.24	23.8	837	87
22	7614-35C00150-U0BK8-NI	35	1.5	7	0.7	1.8	1.24	24.7	903	91
23	7614-36C00150-U0BK8-NI	36	1.5	7	0.7	1.8	1.24	24.7	918	91
24	7614-40C00150-U0BK8-NI	40	1.5	7	0.7	1.8	1.24	25.7	1008	95
25	7614-50C00150-U0BK8-NI	50	1.5	7	0.7	1.8	1.24	28.7	1225	106
26	7614-61C00150-U0BK8-NI	61	1.5	7	0.7	1.9	1.32	30.9	1476	121

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



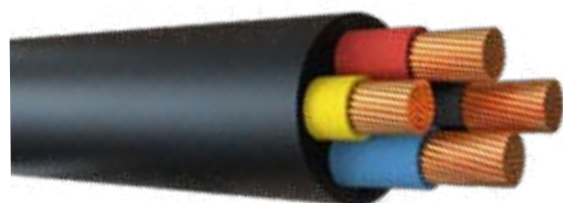
SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7614-02C00250-U0BK8-NI	2	2.5	7	0.7	1.8	1.24	10.6	135	35
28	7614-03C00250-U0BK8-NI	3	2.5	7	0.7	1.8	1.24	11.2	175	37
29	7614-04C00250-U0BK8-NI	4	2.5	7	0.7	1.8	1.24	12.1	210	41
30	7614-05C00250-U0BK8-NI	5	2.5	7	0.7	1.8	1.24	13.0	250	44
31	7614-06C00250-U0BK8-NI	6	2.5	7	0.7	1.8	1.24	14.0	292	48
32	7614-07C00250-U0BK8-NI	7	2.5	7	0.7	1.8	1.24	14.0	317	48
33	7614-08C00250-U0BK8-NI	8	2.5	7	0.7	1.8	1.24	15.5	360	54
34	7614-10C00250-U0BK8-NI	10	2.5	7	0.7	1.8	1.24	17.4	436	62
35	7614-12C00250-U0BK8-NI	12	2.5	7	0.7	1.8	1.24	17.9	510	64
36	7614-14C00250-U0BK8-NI	14	2.5	7	0.7	1.8	1.24	18.8	578	67
37	7614-15C00250-U0BK8-NI	15	2.5	7	0.7	1.8	1.24	19.8	605	71
38	7614-16C00250-U0BK8-NI	16	2.5	7	0.7	1.8	1.24	19.8	634	71
39	7614-18C00250-U0BK8-NI	18	2.5	7	0.7	1.8	1.24	20.8	704	75
40	7614-19C00250-U0BK8-NI	19	2.5	7	0.7	1.8	1.24	20.8	729	75
41	7614-20C00250-U0BK8-NI	20	2.5	7	0.7	1.8	1.24	21.9	767	80
42	7614-22C00250-U0BK8-NI	22	2.5	7	0.7	1.8	1.24	23.1	838	84
43	7614-24C00250-U0BK8-NI	24	2.5	7	0.7	1.8	1.24	24.2	905	89
44	7614-25C00250-U0BK8-NI	25	2.5	7	0.7	1.8	1.24	24.2	935	89
45	7614-26C00250-U0BK8-NI	26	2.5	7	0.7	1.8	1.24	24.2	965	89
46	7614-30C00250-U0BK8-NI	30	2.5	7	0.7	1.8	1.24	25.6	1092	94
47	7614-32C00250-U0BK8-NI	32	2.5	7	0.7	1.8	1.24	26.6	1159	98
48	7614-35C00250-U0BK8-NI	35	2.5	7	0.7	1.8	1.24	27.6	1253	102
49	7614-36C00250-U0BK8-NI	36	2.5	7	0.7	1.8	1.24	27.6	1284	102
50	7614-40C00250-U0BK8-NI	40	2.5	7	0.7	1.8	1.24	28.7	1405	106
51	7614-50C00250-U0BK8-NI	50	2.5	7	0.7	1.9	1.32	32.4	1742	121
52	7614-61C00250-U0BK8-NI	61	2.5	7	0.7	2.0	1.40	34.8	2100	131



# LV POWER, SINGLE/MULTI CORE, UNARMoured CABLE

## CU/XLPE/LSZH

### SPECIFICATION: IEC 60502-1



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	1C: Black 2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling**	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.  
 \*\*Applicable only for Multi-Core cables.  
 \*\*\* Other sheath color available on request.  
 \*\*\*\*Flame Retardant Property of cable will be as per requirement.  
 Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.  
 The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

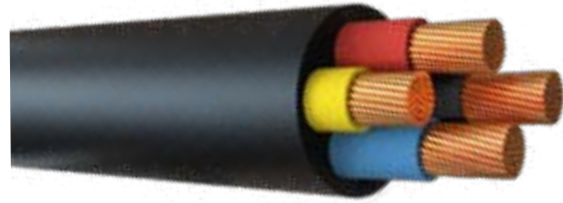
**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
						Nom	Min			
1	7614-01C00150-U0BK8-H0*	1C	1.5	7	0.7	1.4	0.92	5.8	50	14
2	7614-01C00250-U0BK8-H0*	1C	2.5	7	0.7	1.4	0.92	6.2	60	15
3	7614-01C00400-U0BK8-H0*	1C	4	7	0.7	1.4	0.92	6.7	75	16
4	7614-01C00600-U0BK8-H0*	1C	6	7	0.7	1.4	0.92	7.3	100	18
5	7614-01C01000-U0BK8-H0*	1C	10	7	0.7	1.4	0.92	8.3	150	21
6	76D4-01C01600-U0BK8-H0	1C	16	7	0.7	1.4	0.92	8.9	205	23
7	76D4-01C02500-U0BK8-H0	1C	25	7	0.9	1.4	0.92	10.5	300	28
8	76D4-01C03500-U0BK8-H0	1C	35	7	0.9	1.4	0.92	11.6	400	31
9	76D4-01C05000-U0BK8-H0	1C	50	19	1.0	1.4	0.92	13.1	525	36
10	76D4-01C07000-U0BK8-H0	1C	70	19	1.1	1.4	0.92	14.9	725	42
11	76D4-01C09500-U0BK8-H0	1C	95	19	1.1	1.5	1.00	16.7	970	47
12	76D4-01C12000-U0BK8-H0	1C	120	19	1.2	1.5	1.00	18.3	1210	55
13	76D4-01C15000-U0BK8-H0	1C	150	19	1.4	1.6	1.08	20.5	1500	66
14	76D4-01C18500-U0BK8-H0	1C	185	37	1.6	1.6	1.08	22.7	1840	73
15	76D4-01C24000-U0BK8-H0	1C	240	37	1.7	1.7	1.16	25.1	2385	87
16	76D4-01C30000-U0BK8-H0	1C	300	37	1.8	1.8	1.24	27.6	2965	102
17	76D4-01C40000-U0BK8-H0	1C	400	61	2.0	1.9	1.32	31.4	3775	123
18	76D4-01C50000-U0BK8-H0	1C	500	61	2.2	2.0	1.40	34.8	4795	144
19	76D4-01C63000-U0BK8-H0	1C	630	61	2.4	2.2	1.56	39.1	6185	178
20	76D4-01C80000-U0BK8-H0	1C	800	61	2.6	2.3	1.64	43.5	8085	208
21	76D4-1C100000-U0BK8-H0	1C	1000	61	2.8	2.4	1.72	48.7	10120	244
22	7614-01C80000-U0BK8-H0*	1C	800	91	2.6	2.3	1.64	46.9	8145	226
23	7614-1C100000-U0BK8-H0*	1C	1000	91	2.8	2.4	1.72	52.0	10185	262

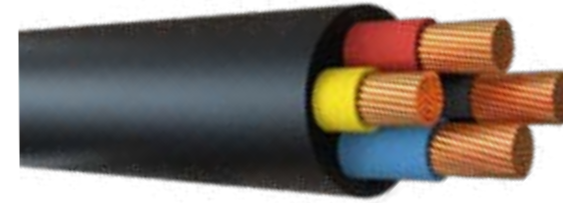
\*Non-Compacted circular conductor, other compacted circular conductor

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-H0	2C	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-02C00250-U0BK8-H0	2C	2.5	7	0.7	1.8	1.24	10.6	135	35
3	7614-02C00400-U0BK8-H0	2C	4	7	0.7	1.8	1.24	11.6	175	39
4	7614-02C00600-U0BK8-H0	2C	6	7	0.7	1.8	1.24	12.8	230	43
5	7614-02C01000-U0BK8-H0	2C	10	7	0.7	1.8	1.24	14.7	325	51
6	7614-03C00150-U0BK8-H0	3C	1.5	7	0.7	1.8	1.24	10.3	140	34
7	7614-03C00250-U0BK8-H0	3C	2.5	7	0.7	1.8	1.24	11.2	175	37
8	7614-03C00400-U0BK8-H0	3C	4	7	0.7	1.8	1.24	12.3	230	42
9	7614-03C00600-U0BK8-H0	3C	6	7	0.7	1.8	1.24	13.6	300	46
10	7614-03C01000-U0BK8-H0	3C	10	7	0.7	1.8	1.24	15.6	440	55
11	7614-04C00150-U0BK8-H0	4C	1.5	7	0.7	1.8	1.24	11.0	160	36
12	7614-04C00250-U0BK8-H0	4C	2.5	7	0.7	1.8	1.24	12.1	210	41
13	7614-04C00400-U0BK8-H0	4C	4	7	0.7	1.8	1.24	13.3	280	45
14	7614-04C00600-U0BK8-H0	4C	6	7	0.7	1.8	1.24	14.7	370	51
15	7614-04C01000-U0BK8-H0	4C	10	7	0.7	1.8	1.24	17.0	550	60
16	7614-05C00150-U0BK8-H0-02	5C	1.5	7	0.7	1.8	1.24	11.9	190	40
17	7614-05C00250-U0BK8-H0-02	5C	2.5	7	0.7	1.8	1.24	13.0	245	44
18	7614-05C00400-U0BK8-H0-02	5C	4	7	0.7	1.8	1.24	14.4	330	50
19	7614-05C00600-U0BK8-H0-02	5C	6	7	0.7	1.8	1.24	16.0	450	56
20	7614-05C01000-U0BK8-H0-02	5C	10	7	0.7	1.8	1.24	18.5	670	66

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	76D4-02C01600-U0BK8-H0	2C	16	7	0.7	1.8	1.24	15.8	430	55
2	76D4-02C02500-U0BK8-H0	2C	25	7	0.9	1.8	1.24	19.2	635	69
3	76D4-02C03500-U0BK8-H0	2C	35	7	0.9	1.8	1.24	21.4	840	78
4	76D4-02C05000-U0BK8-H0	2C	50	19	1.0	1.8	1.24	24.5	1100	90
5	76D4-02C07000-U0BK8-H0	2C	70	19	1.1	1.8	1.24	27.9	1510	103
6	76D4-02C09500-U0BK8-H0	2C	95	19	1.1	1.9	1.32	31.4	2000	123
7	76D4-02C12000-U0BK8-H0	2C	120	19	1.2	2.0	1.40	34.9	2520	145
8	76D4-02C15000-U0BK8-H0	2C	150	19	1.4	2.2	1.56	39.1	3115	178
9	76D4-02C18500-U0BK8-H0	2C	185	37	1.6	2.3	1.64	43.3	3810	207
10	76D4-02C24000-U0BK8-H0	2C	240	37	1.7	2.5	1.80	48.6	4960	253
11	76D4-02C30000-U0BK8-H0	2C	300	37	1.8	2.6	1.88	53.5	6210	291
12	76D4-02C40000-U0BK8-H0	2C	400	61	2.0	2.9	2.12	61.2	7860	372
13	76D4-03C01600-U0BK8-H0	3C	16	7	0.7	1.8	1.24	17.0	595	60
14	76D4-03C02500-U0BK8-H0	3C	25	7	0.9	1.8	1.24	20.4	880	74
15	76D4-03C03500-U0BK8-H0	3C	35	7	0.9	1.8	1.24	22.8	1180	83
16	76D4-04C01600-U0BK8-H0	4C	16	7	0.7	1.8	1.24	18.6	765	66
17	76D4-05C01600-U0BK8-H0-02	5C	16	7	0.7	1.8	1.24	20.1	930	72
18	76D4-05C02500-U0BK8-H0-02	5C	25	7	0.9	1.8	1.24	24.6	1395	90
19	76D4-05C03500-U0BK8-H0-02	5C	35	7	0.9	1.8	1.24	27.5	1880	102
20	76D4-05C05000-U0BK8-H0-02	5C	50	19	1.0	1.9	1.32	31.9	2545	125
21	76D4-05C07000-U0BK8-H0-02	5C	70	19	1.1	2.1	1.48	37.0	3560	161
22	76D4-05C09500-U0BK8-H0-02	5C	95	19	1.1	2.2	1.56	41.6	4730	191
23	76D4-05C12000-U0BK8-H0-02	5C	120	19	1.2	2.4	1.72	46.4	5990	232

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	76F4-03C02500-U0BK8-H0	3C	25	7	0.9	1.8	1.24	17.5	830	62
2	76F4-03C03500-U0BK8-H0	3C	35	7	0.9	1.8	1.24	19.4	1115	70
3	76F4-03C05000-U0BK8-H0	3C	50	19	1.0	1.8	1.24	22.2	1505	81
4	76F4-03C07000-U0BK8-H0	3C	70	19	1.1	1.9	1.32	25.5	2115	93
5	76F4-03C09500-U0BK8-H0	3C	95	19	1.1	2.0	1.40	28.6	2815	111
6	76F4-03C12000-U0BK8-H0	3C	120	19	1.2	2.1	1.48	31.7	3550	130
7	76F4-03C15000-U0BK8-H0	3C	150	19	1.4	2.3	1.64	35.6	4400	153
8	76F4-03C18500-U0BK8-H0	3C	185	37	1.6	2.4	1.72	39.4	5415	178
9	76F4-03C24000-U0BK8-H0	3C	240	37	1.7	2.6	1.88	44.1	7065	218
10	76F4-03C30000-U0BK8-H0	3C	300	37	1.8	2.8	2.04	48.7	8955	251
11	76F4-03C40000-U0BK8-H0	3C	400	61	2.0	3.0	2.20	55.5	11300	310
12	76F4-04C02500-U0BK8-H0	4C	25	7	0.9	1.8	1.24	20.4	1095	74
13	76F4-04C03500-U0BK8-H0	4C	35	7	0.9	1.8	1.24	22.8	1475	83
14	76F4-04C05000-U0BK8-H0	4C	50	19	1.0	1.9	1.32	26.5	2015	97
15	76F4-04C07000-U0BK8-H0	4C	70	19	1.1	2.0	1.40	30.5	2825	119
16	76F4-04C09500-U0BK8-H0	4C	95	19	1.1	2.1	1.48	34.2	3755	148
17	76F4-04C12000-U0BK8-H0	4C	120	19	1.2	2.3	1.64	38.2	4760	173
18	76F4-04C15000-U0BK8-H0	4C	150	19	1.4	2.4	1.72	42.7	5875	203
19	76F4-04C18500-U0BK8-H0	4C	185	37	1.6	2.6	1.88	47.5	7265	246
20	76F4-04C24000-U0BK8-H0	4C	240	37	1.7	2.8	2.04	53.2	9470	299
21	76F4-04C30000-U0BK8-H0	4C	300	37	1.8	3.0	2.20	58.8	11960	355
22	76F4-04C40000-U0BK8-H0	4C	400	61	2.0	3.3	2.44	67.3	15135	435

## CONTROL, MULTI CORE, UNARMoured CABLE

CU/XLPE/LSZH  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/ corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C & above: Black core with Number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler & assembly is wrapped with binder tape.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-3 CAT C*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.

\*\* Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
1	7614-02C00150-U0BK8-H0	2	1.5	7	0.7	1.8	1.24	9.8	110	32
2	7614-03C00150-U0BK8-H0	3	1.5	7	0.7	1.8	1.24	10.3	140	34
3	7614-04C00150-U0BK8-H0	4	1.5	7	0.7	1.8	1.24	11.0	160	36
4	7614-05C00150-U0BK8-H0	5	1.5	7	0.7	1.8	1.24	11.9	190	40
5	7614-06C00150-U0BK8-H0	6	1.5	7	0.7	1.8	1.24	12.7	220	43
6	7614-07C00150-U0BK8-H0	7	1.5	7	0.7	1.8	1.24	12.7	235	43
7	7614-08C00150-U0BK8-H0	8	1.5	7	0.7	1.8	1.24	14.1	269	49
8	7614-10C00150-U0BK8-H0	10	1.5	7	0.7	1.8	1.24	15.7	321	55
9	7614-12C00150-U0BK8-H0	12	1.5	7	0.7	1.8	1.24	16.2	378	57
10	7614-14C00150-U0BK8-H0	14	1.5	7	0.7	1.8	1.24	16.9	410	60
11	7614-15C00150-U0BK8-H0	15	1.5	7	0.7	1.8	1.24	17.8	439	63
12	7614-16C00150-U0BK8-H0	16	1.5	7	0.7	1.8	1.24	17.8	458	63
13	7614-18C00150-U0BK8-H0	18	1.5	7	0.7	1.8	1.24	18.7	509	67
14	7614-19C00150-U0BK8-H0	19	1.5	7	0.7	1.8	1.24	18.7	525	67
15	7614-20C00150-U0BK8-H0	20	1.5	7	0.7	1.8	1.24	19.7	554	71
16	7614-22C00150-U0BK8-H0	22	1.5	7	0.7	1.8	1.24	20.7	610	75
17	7614-24C00150-U0BK8-H0	24	1.5	7	0.7	1.8	1.24	21.7	650	79
18	7614-25C00150-U0BK8-H0	25	1.5	7	0.7	1.8	1.24	21.7	670	79
19	7614-26C00150-U0BK8-H0	26	1.5	7	0.7	1.8	1.24	21.7	690	79
20	7614-30C00150-U0BK8-H0	30	1.5	7	0.7	1.8	1.24	22.9	777	83
21	7614-32C00150-U0BK8-H0	32	1.5	7	0.7	1.8	1.24	23.8	831	87
22	7614-35C00150-U0BK8-H0	35	1.5	7	0.7	1.8	1.24	24.7	896	91
23	7614-36C00150-U0BK8-H0	36	1.5	7	0.7	1.8	1.24	24.7	912	91
24	7614-40C00150-U0BK8-H0	40	1.5	7	0.7	1.8	1.24	25.7	1002	95
25	7614-50C00150-U0BK8-H0	50	1.5	7	0.7	1.8	1.24	28.7	1218	106
26	7614-61C00150-U0BK8-H0	61	1.5	7	0.7	1.9	1.32	30.9	1468	121

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
						Nom	Min			
27	7614-02C00250-U0BK8-H0	2	2.5	7	0.7	1.8	1.24	10.6	135	35
28	7614-03C00250-U0BK8-H0	3	2.5	7	0.7	1.8	1.24	11.2	175	37
29	7614-04C00250-U0BK8-H0	4	2.5	7	0.7	1.8	1.24	12.1	210	41
30	7614-05C00250-U0BK8-H0	5	2.5	7	0.7	1.8	1.24	13.0	245	44
31	7614-06C00250-U0BK8-H0	6	2.5	7	0.7	1.8	1.24	14.0	289	48
32	7614-07C00250-U0BK8-H0	7	2.5	7	0.7	1.8	1.24	14.0	314	48
33	7614-08C00250-U0BK8-H0	8	2.5	7	0.7	1.8	1.24	15.5	356	54
34	7614-10C00250-U0BK8-H0	10	2.5	7	0.7	1.8	1.24	17.4	431	62
35	7614-12C00250-U0BK8-H0	12	2.5	7	0.7	1.8	1.24	17.9	506	64
36	7614-14C00250-U0BK8-H0	14	2.5	7	0.7	1.8	1.24	18.8	573	67
37	7614-15C00250-U0BK8-H0	15	2.5	7	0.7	1.8	1.24	19.8	600	71
38	7614-16C00250-U0BK8-H0	16	2.5	7	0.7	1.8	1.24	19.8	628	71
39	7614-18C00250-U0BK8-H0	18	2.5	7	0.7	1.8	1.24	20.8	699	75
40	7614-19C00250-U0BK8-H0	19	2.5	7	0.7	1.8	1.24	20.8	724	75
41	7614-20C00250-U0BK8-H0	20	2.5	7	0.7	1.8	1.24	21.9	762	80
42	7614-22C00250-U0BK8-H0	22	2.5	7	0.7	1.8	1.24	23.1	832	84
43	7614-24C00250-U0BK8-H0	24	2.5	7	0.7	1.8	1.24	24.2	899	89
44	7614-25C00250-U0BK8-H0	25	2.5	7	0.7	1.8	1.24	24.2	928	89
45	7614-26C00250-U0BK8-H0	26	2.5	7	0.7	1.8	1.24	24.2	958	89
46	7614-30C00250-U0BK8-H0	30	2.5	7	0.7	1.8	1.24	25.6	1085	94
47	7614-32C00250-U0BK8-H0	32	2.5	7	0.7	1.8	1.24	26.6	1152	98
48	7614-35C00250-U0BK8-H0	35	2.5	7	0.7	1.8	1.24	27.6	1246	102
49	7614-36C00250-U0BK8-H0	36	2.5	7	0.7	1.8	1.24	27.6	1277	102
50	7614-40C00250-U0BK8-H0	40	2.5	7	0.7	1.8	1.24	28.7	1398	106
51	7614-50C00250-U0BK8-H0	50	2.5	7	0.7	1.9	1.32	32.4	1732	121
52	7614-61C00250-U0BK8-H0	61	2.5	7	0.7	2.0	1.40	34.8	2092	131



## LV POWER, SINGLE CORE, ARMoured CABLE

CU/PVC/PVC/AWA/PVC

SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code	1C: Black
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of Aluminium wire armor is applied over the inner sheath.
Outer Sheath**	Extruded Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example – CU/PVC/AWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**

CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	73D1-01C02500-A0BK8-00	1C	25	7	1.2	1.0	10.5	1.6	13.7	1.4	0.92	16.3	485	46
2	73D1-01C03500-A0BK8-00	1C	35	7	1.2	1.0	11.6	1.6	14.8	1.4	0.92	17.4	646	50
3	73D1-01C05000-A0BK8-00	1C	50	19	1.4	1.0	13.3	1.6	16.5	1.5	1.00	19.3	815	59
4	73D1-01C07000-A0BK8-00	1C	70	19	1.4	1.0	14.9	1.6	18.1	1.5	1.00	20.9	1046	64
5	73D1-01C09500-A0BK8-00	1C	95	19	1.6	1.0	16.9	1.6	20.1	1.6	1.08	22.9	1335	75
6	73D1-01C12000-A0BK8-00	1C	120	19	1.6	1.0	18.3	1.6	21.5	1.7	1.16	24.5	1610	85
7	73D1-01C15000-A0BK8-00	1C	150	19	1.8	1.0	20.3	1.6	23.5	1.7	1.16	26.5	1941	93
8	73D1-01C18500-A0BK8-00	1C	185	37	2.0	1.0	22.3	1.6	25.5	1.8	1.24	28.7	2325	103
9	73D1-01C24000-A0BK8-00	1C	240	37	2.2	1.0	24.9	1.6	28.1	1.9	1.32	31.5	2950	124
10	73D1-01C30000-A0BK8-00	1C	300	37	2.4	1.0	27.4	2.0	31.4	2.0	1.40	35.0	3690	145
11	73D1-01C40000-A0BK8-00	1C	400	61	2.6	1.2	31.4	2.0	35.4	2.1	1.48	39.2	4640	171
12	73D1-01C50000-A0BK8-00	1C	500	61	2.8	1.2	34.6	2.0	38.6	2.2	1.56	42.6	5760	195
13	73D1-01C63000-A0BK8-00	1C	630	61	2.8	1.2	38.1	2.0	42.1	2.4	1.72	46.5	7230	233
14	73D1-01C80000-A0BK8-00	1C	800	61	2.8	1.4	42.3	2.5	47.3	2.5	1.80	51.9	9400	272
15	73D1-1C100000-A0BK8-00	1C	1000	61	3.0	1.4	47.3	2.5	52.3	2.7	1.96	57.3	11620	324
16	7311-01C80000-A0BK8-00*	1C	800	91	2.8	1.4	45.7	2.5	50.7	2.5	1.80	55.3	9550	290
17	7311-1C100000-A0BK8-00*	1C	1000	91	3.0	1.4	50.6	2.5	55.6	2.7	1.96	60.6	11790	344

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	73D1-01C02500-A0BK8-0A	1C	25	7	1.2	1.0	10.5	1.6	13.7	1.4	0.92	16.3	485	46
2	73D1-01C03500-A0BK8-0A	1C	35	7	1.2	1.0	11.6	1.6	14.8	1.4	0.92	17.4	646	50
3	73D1-01C05000-A0BK8-0A	1C	50	19	1.4	1.0	13.3	1.6	16.5	1.5	1.00	19.3	815	59
4	73D1-01C07000-A0BK8-0A	1C	70	19	1.4	1.0	14.9	1.6	18.1	1.5	1.00	20.9	1046	64
5	73D1-01C09500-A0BK8-0A	1C	95	19	1.6	1.0	16.9	1.6	20.1	1.6	1.08	22.9	1335	75
6	73D1-01C12000-A0BK8-0A	1C	120	19	1.6	1.0	18.3	1.6	21.5	1.7	1.16	24.5	1610	85
7	73D1-01C15000-A0BK8-0A	1C	150	19	1.8	1.0	20.3	1.6	23.5	1.7	1.16	26.5	1941	93
8	73D1-01C18500-A0BK8-0A	1C	185	37	2.0	1.0	22.3	1.6	25.5	1.8	1.24	28.7	2325	103
9	73D1-01C24000-A0BK8-0A	1C	240	37	2.2	1.0	24.9	1.6	28.1	1.9	1.32	31.5	2950	124
10	73D1-01C30000-A0BK8-0A	1C	300	37	2.4	1.0	27.4	2.0	31.4	2.0	1.40	35.0	3690	145
11	73D1-01C40000-A0BK8-0A	1C	400	61	2.6	1.2	31.4	2.0	35.4	2.1	1.48	39.2	4640	171
12	73D1-01C50000-A0BK8-0A	1C	500	61	2.8	1.2	34.6	2.0	38.6	2.2	1.56	42.6	5760	195
13	73D1-01C63000-A0BK8-0A	1C	630	61	2.8	1.2	38.1	2.0	42.1	2.4	1.72	46.5	7230	233
14	73D1-01C80000-A0BK8-0A	1C	800	61	2.8	1.4	42.3	2.5	47.3	2.5	1.80	51.9	9400	272
15	73D1-1C100000-A0BK8-0A	1C	1000	61	3.0	1.4	47.3	2.5	52.3	2.7	1.96	57.3	11620	324
16	7311-01C80000-A0BK8-0A*	1C	800	91	2.8	1.4	45.7	2.5	50.7	2.5	1.80	55.3	9550	290
17	7311-1C100000-A0BK8-0A*	1C	1000	91	3.0	1.4	50.6	2.5	55.6	2.7	1.96	60.6	11790	344

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	73D1-01C02500-A0BK8-NI	1C	25	7	1.2	1.0	10.5	1.6	13.7	1.4	0.92	16.3	485	46
2	73D1-01C03500-A0BK8-NI	1C	35	7	1.2	1.0	11.6	1.6	14.8	1.4	0.92	17.4	646	50
3	73D1-01C05000-A0BK8-NI	1C	50	19	1.4	1.0	13.3	1.6	16.5	1.5	1.00	19.3	815	59
4	73D1-01C07000-A0BK8-NI	1C	70	19	1.4	1.0	14.9	1.6	18.1	1.5	1.00	20.9	1046	64
5	73D1-01C09500-A0BK8-NI	1C	95	19	1.6	1.0	16.9	1.6	20.1	1.6	1.08	22.9	1335	75
6	73D1-01C12000-A0BK8-NI	1C	120	19	1.6	1.0	18.3	1.6	21.5	1.7	1.16	24.5	1610	85
7	73D1-01C15000-A0BK8-NI	1C	150	19	1.8	1.0	20.3	1.6	23.5	1.7	1.16	26.5	1941	93
8	73D1-01C18500-A0BK8-NI	1C	185	37	2.0	1.0	22.3	1.6	25.5	1.8	1.24	28.7	2325	103
9	73D1-01C24000-A0BK8-NI	1C	240	37	2.2	1.0	24.9	1.6	28.1	1.9	1.32	31.5	2950	124
10	73D1-01C30000-A0BK8-NI	1C	300	37	2.4	1.0	27.4	2.0	31.4	2.0	1.40	35.0	3690	145
11	73D1-01C40000-A0BK8-NI	1C	400	61	2.6	1.2	31.4	2.0	35.4	2.1	1.48	39.2	4640	171
12	73D1-01C50000-A0BK8-NI	1C	500	61	2.8	1.2	34.6	2.0	38.6	2.2	1.56	42.6	5760	195
13	73D1-01C63000-A0BK8-NI	1C	630	61	2.8	1.2	38.1	2.0	42.1	2.4	1.72	46.5	7230	233
14	73D1-01C80000-A0BK8-NI	1C	800	61	2.8	1.4	42.3	2.5	47.3	2.5	1.80	51.9	9400	272
15	73D1-1C100000-A0BK8-NI	1C	1000	61	3.0	1.4	47.3	2.5	52.3	2.7	1.96	57.3	11620	324
16	7311-01C80000-A0BK8-NI*	1C	800	91	2.8	1.4	45.7	2.5	50.7	2.5	1.80	55.3	9550	290
17	7311-1C100000-A0BK8-NI*	1C	1000	91	3.0	1.4	50.6	2.5	55.6	2.7	1.96	60.6	11790	344

\*Non-Compacted circular conductor, all other compacted circular conductor.

## LV POWER, MULTI CORE, ARMoured CABLE

CU/PVC/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/PVC/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

Cables with Two/Three/Four and half core is available on request.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE: IEC 60332-3-24 (CAT C)

CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7311-02C00150-W0BK8-00*	2C	1.5	7	0.8	1.0	8.8	0.9	10.6	1.8	1.24	13.8	345	47
2	7311-02C00250-W0BK8-00*	2C	2.5	7	0.8	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
3	7311-02C00400-W0BK8-00*	2C	4	7	1.0	1.0	11.4	0.9	13.2	1.8	1.24	16.4	480	58
4	7311-02C00600-W0BK8-00*	2C	6	7	1.0	1.0	12.6	1.25	15.1	1.8	1.24	18.3	645	65
5	7311-02C01000-W0BK8-00*	2C	10	7	1.0	1.0	14.5	1.25	17.0	1.8	1.24	20.2	805	73
6	73D1-02C01600-W0BK8-00	2C	16	7	1.0	1.0	15.8	1.25	18.3	1.8	1.24	21.5	955	78
7	73D1-02C02500-W0BK8-00	2C	25	7	1.2	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1380	93
8	73D1-02C03500-W0BK8-00	2C	35	7	1.2	1.0	21.2	1.6	24.4	1.8	1.24	27.6	1670	102
9	73D1-02C05000-W0BK8-00	2C	50	19	1.4	1.0	24.7	1.6	27.9	1.9	1.32	31.3	2085	123
10	73D1-02C07000-W0BK8-00	2C	70	19	1.4	1.0	27.7	2.0	31.7	2.0	1.40	35.3	2840	146
11	73D1-02C09500-W0BK8-00	2C	95	19	1.6	1.2	32.2	2.0	36.2	2.2	1.56	40.2	3615	184
12	73D1-02C12000-W0BK8-00	2C	120	19	1.6	1.2	35.1	2.0	39.1	2.3	1.64	43.3	4265	207
13	73D1-02C15000-W0BK8-00	2C	150	19	1.8	1.2	38.9	2.5	43.9	2.4	1.72	48.3	5435	242
14	73D1-02C18500-W0BK8-00	2C	185	37	2.0	1.4	43.3	2.5	48.3	2.6	1.88	53.1	6455	289
15	73D1-02C24000-W0BK8-00	2C	240	37	2.2	1.4	48.6	2.5	53.6	2.8	2.04	58.8	7960	345
16	73D1-02C30000-W0BK8-00	2C	300	37	2.4	1.6	54.1	2.5	59.1	2.9	2.12	64.5	9620	393
17	73D1-02C40000-W0BK8-00	2C	400	61	2.6	1.6	61.2	2.5	66.2	3.2	2.36	72.2	11735	486
18	7311-03C00150-W0BK8-00*	3C	1.5	7	0.8	1.0	9.3	0.9	11.1	1.8	1.24	14.3	380	49
19	7311-03C00250-W0BK8-00*	3C	2.5	7	0.8	1.0	10.2	0.9	12.0	1.8	1.24	15.2	435	53
20	7311-03C00400-W0BK8-00*	3C	4	7	1.0	1.0	12.2	1.25	14.7	1.8	1.24	17.9	650	64
21	7311-03C00600-W0BK8-00*	3C	6	7	1.0	1.0	13.5	1.25	16.0	1.8	1.24	19.2	755	69
22	7311-03C01000-W0BK8-00*	3C	10	7	1.0	1.0	15.5	1.25	18.0	1.8	1.24	21.2	960	77
23	73D1-03C01600-W0BK8-00	3C	16	7	1.0	1.0	16.9	1.25	19.4	1.8	1.24	22.6	1165	82
24	73D1-03C02500-W0BK8-00	3C	25	7	1.2	1.0	20.3	1.6	23.5	1.8	1.24	26.7	1705	99
25	73D1-03C03500-W0BK8-00	3C	35	7	1.2	1.0	22.7	1.6	25.9	1.8	1.24	29.1	2070	108

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
26	7311-04C00150-W0BK8-00*	4C	1.5	7	0.8	1.0	10.1	0.9	11.9	1.8	1.24	15.1	430	53
27	7311-04C00250-W0BK8-00*	4C	2.5	7	0.8	1.0	11.1	0.9	12.9	1.8	1.24	16.1	500	57
28	7311-04C00400-W0BK8-00*	4C	4	7	1.0	1.0	13.3	1.25	15.8	1.8	1.24	19.0	735	68
29	7311-04C00600-W0BK8-00*	4C	6	7	1.0	1.0	14.8	1.25	17.3	1.8	1.24	20.5	875	74
30	7311-04C01000-W0BK8-00*	4C	10	7	1.0	1.0	17.0	1.25	19.5	1.8	1.24	22.7	1125	83
31	73D1-04C01600-W0BK8-00	4C	16	7	1.0	1.0	18.7	1.6	21.9	1.8	1.24	25.1	1535	92
32	7311-05C00150-W0BK8-00-02*	5C	1.5	7	0.8	1.0	11.0	0.9	12.8	1.8	1.24	16.0	475	56
33	7311-05C00250-W0BK8-00-02*	5C	2.5	7	0.8	1.0	12.2	0.9	14.0	1.8	1.24	17.2	565	61
34	7311-05C00400-W0BK8-00-02*	5C	4	7	1.0	1.0	14.6	1.25	17.1	1.8	1.24	20.3	840	73
35	7311-05C00600-W0BK8-00-02*	5C	6	7	1.0	1.0	16.2	1.25	18.7	1.8	1.24	21.9	1010	80
36	7311-05C01000-W0BK8-00-02*	5C	10	7	1.0	1.0	18.7	1.6	21.9	1.8	1.24	25.1	1440	92
37	73D1-05C01600-W0BK8-00-02	5C	16	7	1.0	1.0	20.5	1.6	23.7	1.8	1.24	26.9	1775	99
38	73D1-05C02500-W0BK8-00-02	5C	25	7	1.2	1.0	24.8	1.6	28.0	1.9	1.32	31.4	2440	123
39	73D1-05C03500-W0BK8-00-02	5C	35	7	1.2	1.0	27.7	2.0	31.7	2.0	1.40	35.3	3280	146
40	73D1-05C05000-W0BK8-00-02	5C	50	19	1.4	1.2	32.9	2.0	36.9	2.2	1.56	40.9	4240	187
41	73D1-05C07000-W0BK8-00-02	5C	70	19	1.4	1.2	37.0	2.0	41.0	2.3	1.64	45.2	5455	217
42	73D1-05C09500-W0BK8-00-02	5C	95	19	1.6	1.4	42.9	2.5	47.9	2.5	1.80	52.5	7475	275
43	73D1-05C12000-W0BK8-00-02	5C	120	19	1.6	1.4	46.8	2.5	51.8	2.7	1.96	56.8	8990	321

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7311-02C00150-W0BK8-0A*	2C	1.5	7	0.8	1.0	8.8	0.9	10.6	1.8	1.24	13.8	345	47
2	7311-02C00250-W0BK8-0A*	2C	2.5	7	0.8	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
3	7311-02C00400-W0BK8-0A*	2C	4	7	1.0	1.0	11.4	0.9	13.2	1.8	1.24	16.4	480	58
4	7311-02C00600-W0BK8-0A*	2C	6	7	1.0	1.0	12.6	1.25	15.1	1.8	1.24	18.3	645	65
5	7311-02C01000-W0BK8-0A*	2C	10	7	1.0	1.0	14.5	1.25	17.0	1.8	1.24	20.2	805	73
6	73D1-02C01600-W0BK8-0A	2C	16	7	1.0	1.0	15.8	1.25	18.3	1.8	1.24	21.5	955	78
7	73D1-02C02500-W0BK8-0A	2C	25	7	1.2	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1380	93
8	73D1-02C03500-W0BK8-0A	2C	35	7	1.2	1.0	21.2	1.6	24.4	1.8	1.24	27.6	1670	102
9	73D1-02C05000-W0BK8-0A	2C	50	19	1.4	1.0	24.7	1.6	27.9	1.9	1.32	31.3	2085	123
10	73D1-02C07000-W0BK8-0A	2C	70	19	1.4	1.0	27.7	2.0	31.7	2.0	1.40	35.3	2840	146
11	73D1-02C09500-W0BK8-0A	2C	95	19	1.6	1.2	32.2	2.0	36.2	2.2	1.56	40.2	3615	184
12	73D1-02C12000-W0BK8-0A	2C	120	19	1.6	1.2	35.1	2.0	39.1	2.3	1.64	43.3	4265	207
13	73D1-02C15000-W0BK8-0A	2C	150	19	1.8	1.2	38.9	2.5	43.9	2.4	1.72	48.3	5435	242
14	73D1-02C18500-W0BK8-0A	2C	185	37	2.0	1.4	43.3	2.5	48.3	2.6	1.88	53.1	6455	289
15	73D1-02C24000-W0BK8-0A	2C	240	37	2.2	1.4	48.6	2.5	53.6	2.8	2.04	58.8	7960	345
16	73D1-02C30000-W0BK8-0A	2C	300	37	2.4	1.6	54.1	2.5	59.1	2.9	2.12	64.5	9620	393
17	73D1-02C40000-W0BK8-0A	2C	400	61	2.6	1.6	61.2	2.5	66.2	3.2	2.36	72.2	11735	486
18	7311-03C00150-W0BK8-0A*	3C	1.5	7	0.8	1.0	9.3	0.9	11.1	1.8	1.24	14.3	380	49
19	7311-03C00250-W0BK8-0A*	3C	2.5	7	0.8	1.0	10.2	0.9	12.0	1.8	1.24	15.2	435	53
20	7311-03C00400-W0BK8-0A*	3C	4	7	1.0	1.0	12.2	1.25	14.7	1.8	1.24	17.9	650	64

\*Non-Compacted circular conductor, all other compacted circular conductor.



**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
21	7311-03C00600-W0BK8-0A*	3C	6	7	1.0	1.0	13.5	1.25	16.0	1.8	1.24	19.2	755	69
22	7311-03C01000-W0BK8-0A*	3C	10	7	1.0	1.0	15.5	1.25	18.0	1.8	1.24	21.2	960	77
23	73D1-03C01600-W0BK8-0A	3C	16	7	1.0	1.0	16.9	1.25	19.4	1.8	1.24	22.6	1165	82
24	73D1-03C02500-W0BK8-0A	3C	25	7	1.2	1.0	20.3	1.6	23.5	1.8	1.24	26.7	1705	99
25	73D1-03C03500-W0BK8-0A	3C	35	7	1.2	1.0	22.7	1.6	25.9	1.8	1.24	29.1	2070	108
26	7311-04C00150-W0BK8-0A*	4C	1.5	7	0.8	1.0	10.1	0.9	11.9	1.8	1.24	15.1	430	53
27	7311-04C00250-W0BK8-0A*	4C	2.5	7	0.8	1.0	11.1	0.9	12.9	1.8	1.24	16.1	500	57
28	7311-04C00400-W0BK8-0A*	4C	4	7	1.0	1.0	13.3	1.25	15.8	1.8	1.24	19.0	735	68
29	7311-04C00600-W0BK8-0A*	4C	6	7	1.0	1.0	14.8	1.25	17.3	1.8	1.24	20.5	875	74
30	7311-04C01000-W0BK8-0A*	4C	10	7	1.0	1.0	17.0	1.25	19.5	1.8	1.24	22.7	1125	83
31	73D1-04C01600-W0BK8-0A	4C	16	7	1.0	1.0	18.7	1.6	21.9	1.8	1.24	25.1	1535	92
32	7311-05C00150-W0BK8-0A-02*	5C	1.5	7	0.8	1.0	11.0	0.9	12.8	1.8	1.24	16.0	475	56
33	7311-05C00250-W0BK8-0A-02*	5C	2.5	7	0.8	1.0	12.2	0.9	14.0	1.8	1.24	17.2	565	61
34	7311-05C00400-W0BK8-0A-02*	5C	4	7	1.0	1.0	14.6	1.25	17.1	1.8	1.24	20.3	840	73
35	7311-05C00600-W0BK8-0A-02*	5C	6	7	1.0	1.0	16.2	1.25	18.7	1.8	1.24	21.9	1010	80
36	7311-05C01000-W0BK8-0A-02*	5C	10	7	1.0	1.0	18.7	1.6	21.9	1.8	1.24	25.1	1440	92
37	73D1-05C01600-W0BK8-0A-02	5C	16	7	1.0	1.0	20.5	1.6	23.7	1.8	1.24	26.9	1775	99
38	73D1-05C02500-W0BK8-0A-02	5C	25	7	1.2	1.0	24.8	1.6	28.0	1.9	1.32	31.4	2440	123
39	73D1-05C03500-W0BK8-0A-02	5C	35	7	1.2	1.0	27.7	2.0	31.7	2.0	1.40	35.3	3280	146
49	73D1-05C05000-W0BK8-0A-02	5C	50	19	1.4	1.2	32.9	2.0	36.9	2.2	1.56	40.9	4240	187
41	73D1-05C07000-W0BK8-0A-02	5C	70	19	1.4	1.2	37.0	2.0	41.0	2.3	1.64	45.2	5455	217
42	73D1-05C09500-W0BK8-0A-02	5C	95	19	1.6	1.4	42.9	2.5	47.9	2.5	1.80	52.5	7475	275
43	73D1-05C12000-W0BK8-0A-02	5C	120	19	1.6	1.4	46.8	2.5	51.8	2.7	1.96	56.8	8990	321

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7311-02C00150-W0BK8-NI*	2C	1.5	7	0.8	1.0	8.8	0.9	10.6	1.8	1.24	13.8	345	47
2	7311-02C00250-W0BK8-NI*	2C	2.5	7	0.8	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
3	7311-02C00400-W0BK8-NI*	2C	4	7	1.0	1.0	11.4	0.9	13.2	1.8	1.24	16.4	480	58
4	7311-02C00600-W0BK8-NI*	2C	6	7	1.0	1.0	12.6	1.25	15.1	1.8	1.24	18.3	645	65
5	7311-02C01000-W0BK8-NI*	2C	10	7	1.0	1.0	14.5	1.25	17.0	1.8	1.24	20.2	805	73
6	73D1-02C01600-W0BK8-NI	2C	16	7	1.0	1.0	15.8	1.25	18.3	1.8	1.24	21.5	955	78
7	73D1-02C02500-W0BK8-NI	2C	25	7	1.2	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1380	93
8	73D1-02C03500-W0BK8-NI	2C	35	7	1.2	1.0	21.2	1.6	24.4	1.8	1.24	27.6	1670	102
9	73D1-02C05000-W0BK8-NI	2C	50	19	1.4	1.0	24.7	1.6	27.9	1.9	1.32	31.3	2085	123
10	73D1-02C07000-W0BK8-NI	2C	70	19	1.4	1.0	27.7	2.0	31.7	2.0	1.40	35.3	2840	146
11	73D1-02C09500-W0BK8-NI	2C	95	19	1.6	1.2	32.2	2.0	36.2	2.2	1.56	40.2	3615	184
12	73D1-02C12000-W0BK8-NI	2C	120	19	1.6	1.2	35.1	2.0	39.1	2.3	1.64	43.3	4265	207
13	73D1-02C15000-W0BK8-NI	2C	150	19	1.8	1.2	38.9	2.5	43.9	2.4	1.72	48.3	5435	242
14	73D1-02C18500-W0BK8-NI	2C	185	37	2.0	1.4	43.3	2.5	48.3	2.6	1.88	53.1	6455	289
15	73D1-02C24000-W0BK8-NI	2C	240	37	2.2	1.4	48.6	2.5	53.6	2.8	2.04	58.8	7960	345
16	73D1-02C30000-W0BK8-NI	2C	300	37	2.4	1.6	54.1	2.5	59.1	2.9	2.12	64.5	9620	393
17	73D1-02C40000-W0BK8-NI	2C	400	61	2.6	1.6	61.2	2.5	66.2	3.2	2.36	72.2	11735	486
18	7311-03C00150-W0BK8-NI*	3C	1.5	7	0.8	1.0	9.3	0.9	11.1	1.8	1.24	14.3	380	49
19	7311-03C00250-W0BK8-NI*	3C	2.5	7	0.8	1.0	10.2	0.9	12.0	1.8	1.24	15.2	435	53
20	7311-03C00400-W0BK8-NI*	3C	4	7	1.0	1.0	12.2	1.25	14.7	1.8	1.24	17.9	650	64
21	7311-03C00600-W0BK8-NI*	3C	6	7	1.0	1.0	13.5	1.25	16.0	1.8	1.24	19.2	755	69
22	7311-03C01000-W0BK8-NI*	3C	10	7	1.0	1.0	15.5	1.25	18.0	1.8	1.24	21.2	960	77
23	73D1-03C01600-W0BK8-NI	3C	16	7	1.0	1.0	16.9	1.25	19.4	1.8	1.24	22.6	1165	82
24	73D1-03C02500-W0BK8-NI	3C	25	7	1.2	1.0	20.3	1.6	23.5	1.8	1.24	26.7	1705	99
25	73D1-03C03500-W0BK8-NI	3C	35	7	1.2	1.0	22.7	1.6	25.9	1.8	1.24	29.1	2070w	108

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
26	7311-04C00150-W0BK8-NI*	4C	1.5	7	0.8	1.0	10.1	0.9	11.9	1.8	1.24	15.1	430	53
27	7311-04C00250-W0BK8-NI*	4C	2.5	7	0.8	1.0	11.1	0.9	12.9	1.8	1.24	16.1	500	57
28	7311-04C00400-W0BK8-NI*	4C	4	7	1.0	1.0	13.3	1.25	15.8	1.8	1.24	19.0	735	68
29	7311-04C00600-W0BK8-NI*	4C	6	7	1.0	1.0	14.8	1.25	17.3	1.8	1.24	20.5	875	74
30	7311-04C01000-W0BK8-NI*	4C	10	7	1.0	1.0	17.0	1.25	19.5	1.8	1.24	22.7	1125	83
31	73D1-04C01600-W0BK8-NI	4C	16	7	1.0	1.0	18.7	1.6	21.9	1.8	1.24	25.1	1535	92
32	7311-05C00150-W0BK8-NI-02*	5C	1.5	7	0.8	1.0	11.0	0.9	12.8	1.8	1.24	16.0	475	56
33	7311-05C00250-W0BK8-NI-02*	5C	2.5	7	0.8	1.0	12.2	0.9	14.0	1.8	1.24	17.2	565	61
34	7311-05C00400-W0BK8-NI-02*	5C	4	7	1.0	1.0	14.6	1.25	17.1	1.8	1.24	20.3	840	73
35	7311-05C00600-W0BK8-NI-02*	5C	6	7	1.0	1.0	16.2	1.25	18.7	1.8	1.24	21.9	1010	80
36	7311-05C01000-W0BK8-NI-02*	5C	10	7	1.0	1.0	18.7	1.6	21.9	1.8	1.24	25.1	1440	92
37	73D1-05C01600-W0BK8-NI-02	5C	16	7	1.0	1.0	20.5	1.6	23.7	1.8	1.24	26.9	1775	99
38	73D1-05C02500-W0BK8-NI-02	5C	25	7	1.2	1.0	24.8	1.6	28.0	1.9	1.32	31.4	2440	123
39	73D1-05C03500-W0BK8-NI-02	5C	35	7	1.2	1.0	27.7	2.0	31.7	2.0	1.40	35.3	3280	146
40	73D1-05C05000-W0BK8-NI-02	5C	50	19	1.4	1.2	32.9	2.0	36.9	2.2	1.56	40.9	4240	187
41	73D1-05C07000-W0BK8-NI-02	5C	70	19	1.4	1.2	37.0	2.0	41.0	2.3	1.64	45.2	5455	217
42	73D1-05C09500-W0BK8-NI-02	5C	95	19	1.6	1.4	42.9	2.5	47.9	2.5	1.80	52.5	7475	275
43	73D1-05C12000-W0BK8-NI-02	5C	120	19	1.6	1.4	46.8	2.5	51.8	2.7	1.96	56.8	8990	321

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	73F1-03C02500-W0BK8-00	3C	25	7	1.2	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1585	89
2	73F1-03C03500-W0BK8-00	3C	35	7	1.2	1.0	19.7	1.6	22.9	1.8	1.24	26.1	1960	96
3	73F1-03C05000-W0BK8-00	3C	50	19	1.4	1.0	22.9	1.6	26.1	2.0	1.40	29.7	2515	122
4	73F1-03C07000-W0BK8-00	3C	70	19	1.4	1.2	26.0	2.0	30.0	2.1	1.48	33.8	3490	146
5	73F1-03C09500-W0BK8-00	3C	95	19	1.6	1.2	29.7	2.0	33.7	2.2	1.56	37.7	4420	172
6	73F1-03C12000-W0BK8-00	3C	120	19	1.6	1.2	32.1	2.0	36.1	2.3	1.64	40.4	5260	193
7	73F1-03C15000-W0BK8-00	3C	150	19	1.8	1.4	36.0	2.5	41.0	2.5	1.80	45.7	6760	237
8	73F1-03C18500-W0BK8-00	3C	185	37	2.0	1.4	39.7	2.5	44.7	2.7	1.96	49.7	8020	279
9	73F1-03C24000-W0BK8-00	3C	240	37	2.2	1.6	44.8	2.5	49.8	2.9	2.12	55.2	10125	333
10	73F1-03C30000-W0BK8-00	3C	300	37	2.4	1.6	49.4	2.5	54.4	3.1	2.28	60.3	12370	390
11	73F1-03C40000-W0BK8-00	3C	400	61	2.6	1.8	56.2	3.15	62.5	3.4	2.52	68.9	15945	490
12	73F1-04C02500-W0BK8-00	4C	25	7	1.2	1.0	20.8	1.6	24.0	1.8	1.24	27.2	1995	100
13	73F1-04C03500-W0BK8-00	4C	35	7	1.2	1.0	23.2	1.6	26.4	1.9	1.32	29.8	2490	117
14	73F1-04C05000-W0BK8-00	4C	50	19	1.4	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3510	153
15	73F1-04C07000-W0BK8-00	4C	70	19	1.4	1.2	30.8	2.0	34.8	2.2	1.56	38.8	4455	177
16	73F1-04C09500-W0BK8-00	4C	95	19	1.6	1.2	35.3	2.5	40.3	2.4	1.72	44.7	6070	223
17	73F1-04C12000-W0BK8-00	4C	120	19	1.6	1.4	38.8	2.5	43.8	2.5	1.80	48.4	7300	252
18	73F1-04C15000-W0BK8-00	4C	150	19	1.8	1.4	43.1	2.5	48.1	2.7	1.96	53.1	8760	299
19	73F1-04C18500-W0BK8-00	4C	185	37	2.0	1.6	47.9	2.5	52.9	2.9	2.12	58.3	10510	353
20	73F1-04C24000-W0BK8-00	4C	240	37	2.2	1.6	53.7	2.5	58.7	3.1	2.28	64.5	13215	419
21	73F1-04C30000-W0BK8-00	4C	300	37	2.4	1.6	59.4	3.15	65.7	3.3	2.44	71.9	16910	498
22	73F1-04C40000-W0BK8-00	4C	400	61	2.6	1.8	67.6	3.15	73.9	3.6	2.68	80.7	20825	610

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	73F1-03C02500-W0BK8-0A	3C	25	7	1.2	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1585	89
2	73F1-03C03500-W0BK8-0A	3C	35	7	1.2	1.0	19.7	1.6	22.9	1.8	1.24	26.1	1960	96
3	73F1-03C05000-W0BK8-0A	3C	50	19	1.4	1.0	22.9	1.6	26.1	2.0	1.40	29.7	2515	122
4	73F1-03C07000-W0BK8-0A	3C	70	19	1.4	1.2	26.0	2.0	30.0	2.1	1.48	33.8	3490	146
5	73F1-03C09500-W0BK8-0A	3C	95	19	1.6	1.2	29.7	2.0	33.7	2.2	1.56	37.7	4420	172
6	73F1-03C12000-W0BK8-0A	3C	120	19	1.6	1.2	32.1	2.0	36.1	2.3	1.64	40.4	5260	193
7	73F1-03C15000-W0BK8-0A	3C	150	19	1.8	1.4	36.0	2.5	41.0	2.5	1.80	45.7	6760	237
8	73F1-03C18500-W0BK8-0A	3C	185	37	2.0	1.4	39.7	2.5	44.7	2.7	1.96	49.7	8020	279
9	73F1-03C24000-W0BK8-0A	3C	240	37	2.2	1.6	44.8	2.5	49.8	2.9	2.12	55.2	10125	333
10	73F1-03C30000-W0BK8-0A	3C	300	37	2.4	1.6	49.4	2.5	54.4	3.1	2.28	60.3	12370	390
11	73F1-03C40000-W0BK8-0A	3C	400	61	2.6	1.8	56.2	3.15	62.5	3.4	2.52	68.9	15945	490
12	73F1-04C02500-W0BK8-0A	4C	25	7	1.2	1.0	20.8	1.6	24.0	1.8	1.24	27.2	1995	100
13	73F1-04C03500-W0BK8-0A	4C	35	7	1.2	1.0	23.2	1.6	26.4	1.9	1.32	29.8	2490	117
14	73F1-04C05000-W0BK8-0A	4C	50	19	1.4	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3510	153
15	73F1-04C07000-W0BK8-0A	4C	70	19	1.4	1.2	30.8	2.0	34.8	2.2	1.56	38.8	4455	177
16	73F1-04C09500-W0BK8-0A	4C	95	19	1.6	1.2	35.3	2.5	40.3	2.4	1.72	44.7	6070	223
17	73F1-04C12000-W0BK8-0A	4C	120	19	1.6	1.4	38.8	2.5	43.8	2.5	1.80	48.4	7300	252
18	73F1-04C15000-W0BK8-0A	4C	150	19	1.8	1.4	43.1	2.5	48.1	2.7	1.96	53.1	8760	299
19	73F1-04C18500-W0BK8-0A	4C	185	37	2.0	1.6	47.9	2.5	52.9	2.9	2.12	58.3	10510	353
20	73F1-04C24000-W0BK8-0A	4C	240	37	2.2	1.6	53.7	2.5	58.7	3.1	2.28	64.5	13215	419
21	73F1-04C30000-W0BK8-0A	4C	300	37	2.4	1.6	59.4	3.15	65.7	3.3	2.44	71.9	16910	498
22	73F1-04C40000-W0BK8-0A	4C	400	61	2.6	1.8	67.6	3.15	73.9	3.6	2.68	80.7	20825	610

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	73F1-03C02500-W0BK8-NI	3C	25	7	1.2	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1585	89
2	73F1-03C03500-W0BK8-NI	3C	35	7	1.2	1.0	19.7	1.6	22.9	1.8	1.24	26.1	1960	96
3	73F1-03C05000-W0BK8-NI	3C	50	19	1.4	1.0	22.9	1.6	26.1	2.0	1.40	29.7	2515	122
4	73F1-03C07000-W0BK8-NI	3C	70	19	1.4	1.2	26.0	2.0	30.0	2.1	1.48	33.8	3490	146
5	73F1-03C09500-W0BK8-NI	3C	95	19	1.6	1.2	29.7	2.0	33.7	2.2	1.56	37.7	4420	172
6	73F1-03C12000-W0BK8-NI	3C	120	19	1.6	1.2	32.1	2.0	36.1	2.3	1.64	40.4	5260	193
7	73F1-03C15000-W0BK8-NI	3C	150	19	1.8	1.4	36.0	2.5	41.0	2.5	1.80	45.7	6760	237
8	73F1-03C18500-W0BK8-NI	3C	185	37	2.0	1.4	39.7	2.5	44.7	2.7	1.96	49.7	8020	279
9	73F1-03C24000-W0BK8-NI	3C	240	37	2.2	1.6	44.8	2.5	49.8	2.9	2.12	55.2	10125	333
10	73F1-03C30000-W0BK8-NI	3C	300	37	2.4	1.6	49.4	2.5	54.4	3.1	2.28	60.3	12370	390
11	73F1-03C40000-W0BK8-NI	3C	400	61	2.6	1.8	56.2	3.15	62.5	3.4	2.52	68.9	15945	490
12	73F1-04C02500-W0BK8-NI	4C	25	7	1.2	1.0	20.8	1.6	24.0	1.8	1.24	27.2	1995	100
13	73F1-04C03500-W0BK8-NI	4C	35	7	1.2	1.0	23.2	1.6	26.4	1.9	1.32	29.8	2490	117
14	73F1-04C05000-W0BK8-NI	4C	50	19	1.4	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3510	153
15	73F1-04C07000-W0BK8-NI	4C	70	19	1.4	1.2	30.8	2.0	34.8	2.2	1.56	38.8	4455	177
16	73F1-04C09500-W0BK8-NI	4C	95	19	1.6	1.2	35.3	2.5	40.3	2.4	1.72	44.7	6070	223
17	73F1-04C12000-W0BK8-NI	4C	120	19	1.6	1.4	38.8	2.5	43.8	2.5	1.80	48.4	7300	252
18	73F1-04C15000-W0BK8-NI	4C	150	19	1.8	1.4	43.1	2.5	48.1	2.7	1.96	53.1	8760	299
19	73F1-04C18500-W0BK8-NI	4C	185	37	2.0	1.6	47.9	2.5	52.9	2.9	2.12	58.3	10510	353
20	73F1-04C24000-W0BK8-NI	4C	240	37	2.2	1.6	53.7	2.5	58.7	3.1	2.28	64.5	13215	419
21	73F1-04C30000-W0BK8-NI	4C	300	37	2.4	1.6	59.4	3.15	65.7	3.3	2.44	71.9	16910	498
22	73F1-04C40000-W0BK8-NI	4C	400	61	2.6	1.8	67.6	3.15	73.9	3.6	2.68	80.7	20825	610

# CONTROL, MULTI CORE, ARMoured CABLE

CU/PVC/PVC/GSWA/PVC

SPECIFICATION: IEC 60502-1



## APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

## CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	PVC TI-3
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C & Above: Black cores with Number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/PVC/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.



TABLE: IEC 60332-3-24 (CAT C)

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm2)	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7311-02C00150-W0BK8-00	2	1.5	7	0.8	1.0	8.8	0.9	10.6	1.8	1.24	13.8	345	47
2	7311-03C00150-W0BK8-00	3	1.5	7	0.8	1.0	9.3	0.9	11.1	1.8	1.24	14.3	380	49
3	7311-04C00150-W0BK8-00	4	1.5	7	0.8	1.0	10.1	0.9	11.9	1.8	1.24	15.1	430	51
4	7311-05C00150-W0BK8-00	5	1.5	7	0.8	1.0	11.0	0.9	12.8	1.8	1.24	16.0	475	56
5	7311-06C00150-W0BK8-00	6	1.5	7	0.8	1.0	11.9	0.9	13.7	1.8	1.24	16.9	529	60
6	7311-07C00150-W0BK8-00	7	1.5	7	0.8	1.0	11.9	0.9	13.7	1.8	1.24	16.9	549	60
7	7311-08C00150-W0BK8-00	8	1.5	7	0.8	1.0	13.4	1.25	15.9	1.8	1.24	19.1	715	68
8	7311-10C00150-W0BK8-00	10	1.5	7	0.8	1.0	15.1	1.25	17.6	1.8	1.24	20.8	825	75
9	7311-12C00150-W0BK8-00	12	1.5	7	0.8	1.0	15.6	1.25	18.1	1.8	1.24	21.3	903	77
10	7311-14C00150-W0BK8-00	14	1.5	7	0.8	1.0	16.4	1.25	18.9	1.8	1.24	22.1	967	80
11	7311-15C00150-W0BK8-00	15	1.5	7	0.8	1.0	17.3	1.25	19.8	1.8	1.24	23.0	1025	84
12	7311-16C00150-W0BK8-00	16	1.5	7	0.8	1.0	17.3	1.25	19.8	1.8	1.24	23.0	1049	84
13	7311-18C00150-W0BK8-00	18	1.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1263	91
14	7311-19C00150-W0BK8-00	19	1.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1283	91
15	7311-20C00150-W0BK8-00	20	1.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1352	95
16	7311-22C00150-W0BK8-00	22	1.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1442	99
17	7311-24C00150-W0BK8-00	24	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1546	103
18	7311-25C00150-W0BK8-00	25	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1571	103
19	7311-26C00150-W0BK8-00	26	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1596	103
20	7311-30C00150-W0BK8-00	30	1.5	7	0.8	1.0	22.8	1.6	26.0	1.8	1.24	29.2	1741	108
21	7311-32C00150-W0BK8-00	32	1.5	7	0.8	1.0	23.7	1.6	26.9	1.8	1.24	30.1	1824	112
22	7311-35C00150-W0BK8-00	35	1.5	7	0.8	1.0	24.7	1.6	27.9	1.9	1.32	31.1	1928	122
23	7311-36C00150-W0BK8-00	36	1.5	7	0.8	1.0	24.7	1.6	27.9	1.9	1.32	31.1	1962	122
24	7311-40C00150-W0BK8-00	40	1.5	7	0.8	1.0	25.7	1.6	28.9	1.9	1.32	32.1	2090	126
25	7311-50C00150-W0BK8-00	50	1.5	7	0.8	1.2	29.4	2.0	33.4	2.0	1.40	37.0	2770	154
26	7311-61C00150-W0BK8-00	61	1.5	7	0.8	1.2	31.5	2.0	35.5	2.1	1.48	39.3	3180	172
27	7311-02C00250-W0BK8-00	2	2.5	7	0.8	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
28	7311-03C00250-W0BK8-00	3	2.5	7	0.8	1.0	10.2	0.9	12.0	1.8	1.24	15.2	435	53
29	7311-04C00250-W0BK8-00	4	2.5	7	0.8	1.0	11.1	0.9	12.9	1.8	1.24	16.1	500	57
30	7311-05C00250-W0BK8-00	5	2.5	7	0.8	1.0	12.2	0.9	14.0	1.8	1.24	17.2	565	61
31	7311-06C00250-W0BK8-00	6	2.5	7	0.8	1.0	13.2	1.25	15.7	1.8	1.24	18.9	729	68
32	7311-07C00250-W0BK8-00	7	2.5	7	0.8	1.0	13.2	1.25	15.7	1.8	1.24	18.9	759	68
33	7311-08C00250-W0BK8-00	8	2.5	7	0.8	1.0	14.8	1.25	17.3	1.8	1.24	20.5	845	74



**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MES C MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
34	7311-10C00250-W0BK8-00	10	2.5	7	0.8	1.0	16.8	1.25	19.3	1.8	1.24	22.5	992	82
35	7311-12C00250-W0BK8-00	12	2.5	7	0.8	1.0	17.4	1.25	19.9	1.8	1.24	23.1	1093	84
36	7311-14C00250-W0BK8-00	14	2.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1307	91
37	7311-15C00250-W0BK8-00	15	2.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1388	95
38	7311-16C00250-W0BK8-00	16	2.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1422	95
39	7311-18C00250-W0BK8-00	18	2.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1543	99
40	7311-19C00250-W0BK8-00	19	2.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1574	99
41	7311-20C00250-W0BK8-00	20	2.5	7	0.8	1.0	21.6	1.6	24.8	1.8	1.24	28.0	1658	104
42	7311-22C00250-W0BK8-00	22	2.5	7	0.8	1.0	22.8	1.6	26.0	1.8	1.24	29.2	1769	108
43	7311-24C00250-W0BK8-00	24	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1908	120
44	7311-25C00250-W0BK8-00	25	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1943	120
45	7311-26C00250-W0BK8-00	26	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1978	120
46	7311-30C00250-W0BK8-00	30	2.5	7	0.8	1.0	25.5	1.6	28.7	1.9	1.32	32.1	2186	126
47	7311-32C00250-W0BK8-00	32	2.5	7	0.8	1.0	26.5	1.6	29.7	1.9	1.32	33.1	2289	130
48	7311-35C00250-W0BK8-00	35	2.5	7	0.8	1.0	27.6	1.6	30.8	2.0	1.40	34.4	2458	142
49	7311-36C00250-W0BK8-00	36	2.5	7	0.8	1.0	27.6	1.6	30.8	2.0	1.40	34.4	2469	142
50	7311-40C00250-W0BK8-00	40	2.5	7	0.8	1.0	28.8	2.0	32.8	2.0	1.40	36.4	2910	151
51	7311-50C00250-W0BK8-00	50	2.5	7	0.8	1.2	32.9	2.0	36.9	2.2	1.56	40.9	3510	187
52	7311-61C00250-W0BK8-00	61	2.5	7	0.8	1.2	35.2	2.0	39.2	2.2	1.56	43.2	4038	198

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MES C MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7311-02C00150-W0BK8-0A	2	1.5	7	0.8	1.0	8.8	0.9	10.6	1.8	1.24	13.8	345	47
2	7311-03C00150-W0BK8-0A	3	1.5	7	0.8	1.0	9.3	0.9	11.1	1.8	1.24	14.3	380	49
3	7311-04C00150-W0BK8-0A	4	1.5	7	0.8	1.0	10.1	0.9	11.9	1.8	1.24	15.1	430	51
4	7311-05C00150-W0BK8-0A	5	1.5	7	0.8	1.0	11.0	0.9	12.8	1.8	1.24	16.0	475	56
5	7311-06C00150-W0BK8-0A	6	1.5	7	0.8	1.0	11.9	0.9	13.7	1.8	1.24	16.9	529	60
6	7311-07C00150-W0BK8-0A	7	1.5	7	0.8	1.0	11.9	0.9	13.7	1.8	1.24	16.9	549	60
7	7311-08C00150-W0BK8-0A	8	1.5	7	0.8	1.0	13.4	1.25	15.9	1.8	1.24	19.1	715	68
8	7311-10C00150-W0BK8-0A	10	1.5	7	0.8	1.0	15.1	1.25	17.6	1.8	1.24	20.8	825	75
9	7311-12C00150-W0BK8-0A	12	1.5	7	0.8	1.0	15.6	1.25	18.1	1.8	1.24	21.3	903	77
10	7311-14C00150-W0BK8-0A	14	1.5	7	0.8	1.0	16.4	1.25	18.9	1.8	1.24	22.1	967	80
11	7311-15C00150-W0BK8-0A	15	1.5	7	0.8	1.0	17.3	1.25	19.8	1.8	1.24	23.0	1025	84
12	7311-16C00150-W0BK8-0A	16	1.5	7	0.8	1.0	17.3	1.25	19.8	1.8	1.24	23.0	1049	84
13	7311-18C00150-W0BK8-0A	18	1.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1263	91
14	7311-19C00150-W0BK8-0A	19	1.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1283	91
15	7311-20C00150-W0BK8-0A	20	1.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1352	95
16	7311-22C00150-W0BK8-0A	22	1.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1442	99
17	7311-24C00150-W0BK8-0A	24	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1546	103
18	7311-25C00150-W0BK8-0A	25	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1571	103
19	7311-26C00150-W0BK8-0A	26	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1596	103
20	7311-30C00150-W0BK8-0A	30	1.5	7	0.8	1.0	22.8	1.6	26.0	1.8	1.24	29.2	1741	108
21	7311-32C00150-W0BK8-0A	32	1.5	7	0.8	1.0	23.7	1.6	26.9	1.8	1.24	30.1	1824	112
22	7311-35C00150-W0BK8-0A	35	1.5	7	0.8	1.0	24.7	1.6	27.9	1.9	1.32	31.1	1928	122
23	7311-36C00150-W0BK8-0A	36	1.5	7	0.8	1.0	24.7	1.6	27.9	1.9	1.32	31.1	1962	122
24	7311-40C00150-W0BK8-0A	40	1.5	7	0.8	1.0	25.7	1.6	28.9	1.9	1.32	32.1	2090	126
25	7311-50C00150-W0BK8-0A	50	1.5	7	0.8	1.2	29.4	2.0	33.4	2.0	1.40	37.0	2770	154
26	7311-61C00150-W0BK8-0A	61	1.5	7	0.8	1.2	31.5	2.0	35.5	2.1	1.48	39.3	3180	172
27	7311-02C00250-W0BK8-0A	2	2.5	7	0.8	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
28	7311-03C00250-W0BK8-0A	3	2.5	7	0.8	1.0	10.2	0.9	12.0	1.8	1.24	15.2	435	53
29	7311-04C00250-W0BK8-0A	4	2.5	7	0.8	1.0	11.1	0.9	12.9	1.8	1.24	16.1	500	57
30	7311-05C00250-W0BK8-0A	5	2.5	7	0.8	1.0	12.2	0.9	14.0	1.8	1.24	17.2	565	61
31	7311-06C00250-W0BK8-0A	6	2.5	7	0.8	1.0	13.2	1.25	15.7	1.8	1.24	18.9	729	68
32	7311-07C00250-W0BK8-0A	7	2.5	7	0.8	1.0	13.2	1.25	15.7	1.8	1.24	18.9	759	68
33	7311-08C00250-W0BK8-0A	8	2.5	7	0.8	1.0	14.8	1.25	17.3	1.8	1.24	20.5	845	74

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
34	7311-10C00250-W0BK8-0A	10	2.5	7	0.8	1.0	16.8	1.25	19.3	1.8	1.24	22.5	992	82
35	7311-12C00250-W0BK8-0A	12	2.5	7	0.8	1.0	17.4	1.25	19.9	1.8	1.24	23.1	1093	84
36	7311-14C00250-W0BK8-0A	14	2.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1307	91
37	7311-15C00250-W0BK8-0A	15	2.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1388	95
38	7311-16C00250-W0BK8-0A	16	2.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1422	95
39	7311-18C00250-W0BK8-0A	18	2.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1543	99
40	7311-19C00250-W0BK8-0A	19	2.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1574	99
41	7311-20C00250-W0BK8-0A	20	2.5	7	0.8	1.0	21.6	1.6	24.8	1.8	1.24	28.0	1658	104
42	7311-22C00250-W0BK8-0A	22	2.5	7	0.8	1.0	22.8	1.6	26.0	1.8	1.24	29.2	1769	108
43	7311-24C00250-W0BK8-0A	24	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1908	120
44	7311-25C00250-W0BK8-0A	25	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1943	120
45	7311-26C00250-W0BK8-0A	26	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1978	120
46	7311-30C00250-W0BK8-0A	30	2.5	7	0.8	1.0	25.5	1.6	28.7	1.9	1.32	32.1	2186	126
47	7311-32C00250-W0BK8-0A	32	2.5	7	0.8	1.0	26.5	1.6	29.7	1.9	1.32	33.1	2289	130
48	7311-35C00250-W0BK8-0A	35	2.5	7	0.8	1.0	27.6	1.6	30.8	2.0	1.40	34.4	2458	142
49	7311-36C00250-W0BK8-0A	36	2.5	7	0.8	1.0	27.6	1.6	30.8	2.0	1.40	34.4	2469	142
50	7311-40C00250-W0BK8-0A	40	2.5	7	0.8	1.0	28.8	2.0	32.8	2.0	1.40	36.4	2910	151
51	7311-50C00250-W0BK8-0A	50	2.5	7	0.8	1.2	32.9	2.0	36.9	2.2	1.56	40.9	3510	187
52	7311-61C00250-W0BK8-0A	61	2.5	7	0.8	1.2	35.2	2.0	39.2	2.2	1.56	43.2	4038	198



**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7311-02C00150-W0BK8-NI	2	1.5	7	0.8	1.0	8.8	0.9	10.6	1.8	1.24	13.8	345	47
2	7311-03C00150-W0BK8-NI	3	1.5	7	0.8	1.0	9.3	0.9	11.1	1.8	1.24	14.3	380	49
3	7311-04C00150-W0BK8-NI	4	1.5	7	0.8	1.0	10.1	0.9	11.9	1.8	1.24	15.1	430	51
4	7311-05C00150-W0BK8-NI	5	1.5	7	0.8	1.0	11.0	0.9	12.8	1.8	1.24	16.0	475	56
5	7311-06C00150-W0BK8-NI	6	1.5	7	0.8	1.0	11.9	0.9	13.7	1.8	1.24	16.9	529	60
6	7311-07C00150-W0BK8-NI	7	1.5	7	0.8	1.0	11.9	0.9	13.7	1.8	1.24	16.9	549	60
7	7311-08C00150-W0BK8-NI	8	1.5	7	0.8	1.0	13.4	1.25	15.9	1.8	1.24	19.1	715	68
8	7311-10C00150-W0BK8-NI	10	1.5	7	0.8	1.0	15.1	1.25	17.6	1.8	1.24	20.8	825	75
9	7311-12C00150-W0BK8-NI	12	1.5	7	0.8	1.0	15.6	1.25	18.1	1.8	1.24	21.3	903	77
10	7311-14C00150-W0BK8-NI	14	1.5	7	0.8	1.0	16.4	1.25	18.9	1.8	1.24	22.1	967	80
11	7311-15C00150-W0BK8-NI	15	1.5	7	0.8	1.0	17.3	1.25	19.8	1.8	1.24	23.0	1025	84
12	7311-16C00150-W0BK8-NI	16	1.5	7	0.8	1.0	17.3	1.25	19.8	1.8	1.24	23.0	1049	84
13	7311-18C00150-W0BK8-NI	18	1.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1263	91
14	7311-19C00150-W0BK8-NI	19	1.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1283	91
15	7311-20C00150-W0BK8-NI	20	1.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1352	95
16	7311-22C00150-W0BK8-NI	22	1.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1442	99
17	7311-24C00150-W0BK8-NI	24	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1546	103
18	7311-25C00150-W0BK8-NI	25	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1571	103
19	7311-26C00150-W0BK8-NI	26	1.5	7	0.8	1.0	21.5	1.6	24.7	1.8	1.24	27.9	1596	103
20	7311-30C00150-W0BK8-NI	30	1.5	7	0.8	1.0	22.8	1.6	26.0	1.8	1.24	29.2	1741	108
21	7311-32C00150-W0BK8-NI	32	1.5	7	0.8	1.0	23.7	1.6	26.9	1.8	1.24	30.1	1824	112
22	7311-35C00150-W0BK8-NI	35	1.5	7	0.8	1.0	24.7	1.6	27.9	1.9	1.32	31.1	1928	122
23	7311-36C00150-W0BK8-NI	36	1.5	7	0.8	1.0	24.7	1.6	27.9	1.9	1.32	31.1	1962	122
24	7311-40C00150-W0BK8-NI	40	1.5	7	0.8	1.0	25.7	1.6	28.9	1.9	1.32	32.1	2090	126
25	7311-50C00150-W0BK8-NI	50	1.5	7	0.8	1.2	29.4	2.0	33.4	2.0	1.40	37.0	2770	154
26	7311-61C00150-W0BK8-NI	61	1.5	7	0.8	1.2	31.5	2.0	35.5	2.1	1.48	39.3	3180	172
27	7311-02C00250-W0BK8-NI	2	2.5	7	0.8	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
28	7311-03C00250-W0BK8-NI	3	2.5	7	0.8	1.0	10.2	0.9	12.0	1.8	1.24	15.2	435	53
29	7311-04C00250-W0BK8-NI	4	2.5	7	0.8	1.0	11.1	0.9	12.9	1.8	1.24	16.1	500	57
30	7311-05C00250-W0BK8-NI	5	2.5	7	0.8	1.0	12.2	0.9	14.0	1.8	1.24	17.2	565	61
31	7311-06C00250-W0BK8-NI	6	2.5	7	0.8	1.0	13.2	1.25	15.7	1.8	1.24	18.9	729	68
32	7311-07C00250-W0BK8-NI	7	2.5	7	0.8	1.0	13.2	1.25	15.7	1.8	1.24	18.9	759	68
33	7311-08C00250-W0BK8-NI	8	2.5	7	0.8	1.0	14.8	1.25	17.3	1.8	1.24	20.5	845	74

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
34	7311-10C00250-W0BK8-NI	10	2.5	7	0.8	1.0	16.8	1.25	19.3	1.8	1.24	22.5	992	82
35	7311-12C00250-W0BK8-NI	12	2.5	7	0.8	1.0	17.4	1.25	19.9	1.8	1.24	23.1	1093	84
36	7311-14C00250-W0BK8-NI	14	2.5	7	0.8	1.0	18.3	1.6	21.5	1.8	1.24	24.7	1307	91
37	7311-15C00250-W0BK8-NI	15	2.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1388	95
38	7311-16C00250-W0BK8-NI	16	2.5	7	0.8	1.0	19.3	1.6	22.5	1.8	1.24	25.7	1422	95
39	7311-18C00250-W0BK8-NI	18	2.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1543	99
40	7311-19C00250-W0BK8-NI	19	2.5	7	0.8	1.0	20.4	1.6	23.6	1.8	1.24	26.8	1574	99
41	7311-20C00250-W0BK8-NI	20	2.5	7	0.8	1.0	21.6	1.6	24.8	1.8	1.24	28.0	1658	104
42	7311-22C00250-W0BK8-NI	22	2.5	7	0.8	1.0	22.8	1.6	26.0	1.8	1.24	29.2	1769	108
43	7311-24C00250-W0BK8-NI	24	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1908	120
44	7311-25C00250-W0BK8-NI	25	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1943	120
45	7311-26C00250-W0BK8-NI	26	2.5	7	0.8	1.0	24.0	1.6	27.2	1.9	1.32	30.6	1978	120
46	7311-30C00250-W0BK8-NI	30	2.5	7	0.8	1.0	25.5	1.6	28.7	1.9	1.32	32.1	2186	126
47	7311-32C00250-W0BK8-NI	32	2.5	7	0.8	1.0	26.5	1.6	29.7	1.9	1.32	33.1	2289	130
48	7311-35C00250-W0BK8-NI	35	2.5	7	0.8	1.0	27.6	1.6	30.8	2.0	1.40	34.4	2458	142
49	7311-36C00250-W0BK8-NI	36	2.5	7	0.8	1.0	27.6	1.6	30.8	2.0	1.40	34.4	2469	142
50	7311-40C00250-W0BK8-NI	40	2.5	7	0.8	1.0	28.8	2.0	32.8	2.0	1.40	36.4	2910	151
51	7311-50C00250-W0BK8-NI	50	2.5	7	0.8	1.2	32.9	2.0	36.9	2.2	1.56	40.9	3510	187
52	7311-61C00250-W0BK8-NI	61	2.5	7	0.8	1.2	35.2	2.0	39.2	2.2	1.56	43.2	4038	198

**LV POWER, SINGLE CORE, ARMoured CABLE**  
CU/XLPE/PVC/AWA/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	1C: Black
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of Aluminium wire armor is applied over the inner sheath.
Outer Sheath**	Extruded Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example – CU/XLPE/AWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.



**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76D4-01C02500-A0BK8-00	1C	25	7	0.9	1.0	9.9	1.6	13.1	1.4	0.92	15.7	480	44
2	76D4-01C03500-A0BK8-00	1C	35	7	0.9	1.0	11.0	1.6	14.2	1.4	0.92	16.8	604	47
3	76D4-01C05000-A0BK8-00	1C	50	19	1.0	1.0	12.5	1.6	15.7	1.5	1.00	18.5	760	56
4	76D4-01C07000-A0BK8-00	1C	70	19	1.1	1.0	14.3	1.6	17.5	1.5	1.00	20.3	994	62
5	76D4-01C09500-A0BK8-00	1C	95	19	1.1	1.0	15.9	1.6	19.1	1.6	1.08	22.1	1250	72
6	76D4-01C12000-A0BK8-00	1C	120	19	1.2	1.0	17.5	1.6	20.7	1.7	1.16	23.7	1530	82
7	76D4-01C15000-A0BK8-00	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1839	90
8	76D4-01C18500-A0BK8-00	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2215	103
9	76D4-01C24000-A0BK8-00	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.9	1.32	30.5	2805	119
10	76D4-01C30000-A0BK8-00	1C	300	37	1.8	1.0	26.2	1.6	29.4	2.0	1.40	33.0	3430	136
11	76D4-01C40000-A0BK8-00	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.1	1.48	38.0	4435	166
12	76D4-01C50000-A0BK8-00	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.2	1.56	41.4	5515	190
13	76D4-01C63000-A0BK8-00	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	6975	218
14	76D4-01C80000-A0BK8-00	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.5	1.80	51.5	9150	269
15	76D4-1C100000-A0BK8-00	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.7	1.96	56.9	11350	322
16	7614-01C80000-A0BK8-00*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.5	1.80	54.9	9300	288
17	7614-1C100000-A0BK8-00*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11500	341
18	7614-1C100000-A0BK8-00*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11500	341

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76D4-01C02500-A0BK8-0A	1C	25	7	0.9	1.0	9.9	1.6	13.1	1.4	0.92	15.7	480	44
2	76D4-01C03500-A0BK8-0A	1C	35	7	0.9	1.0	11.0	1.6	14.2	1.4	0.92	16.8	604	47
3	76D4-01C05000-A0BK8-0A	1C	50	19	1.0	1.0	12.5	1.6	15.7	1.5	1.00	18.5	760	56
4	76D4-01C07000-A0BK8-0A	1C	70	19	1.1	1.0	14.3	1.6	17.5	1.5	1.00	20.3	994	62
5	76D4-01C09500-A0BK8-0A	1C	95	19	1.1	1.0	15.9	1.6	19.1	1.6	1.08	22.1	1250	72
6	76D4-01C12000-A0BK8-0A	1C	120	19	1.2	1.0	17.5	1.6	20.7	1.7	1.16	23.7	1530	82
7	76D4-01C15000-A0BK8-0A	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1839	90
8	76D4-01C18500-A0BK8-0A	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2215	103
9	76D4-01C24000-A0BK8-0A	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.9	1.32	30.5	2805	119
10	76D4-01C30000-A0BK8-0A	1C	300	37	1.8	1.0	26.2	1.6	29.4	2.0	1.40	33.0	3430	136
11	76D4-01C40000-A0BK8-0A	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.1	1.48	38.0	4435	166
12	76D4-01C50000-A0BK8-0A	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.2	1.56	41.4	5515	190
13	76D4-01C63000-A0BK8-0A	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	6975	218
14	76D4-01C80000-A0BK8-0A	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.5	1.80	51.5	9150	269
15	76D4-1C100000-A0BK8-0A	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.7	1.96	56.9	11350	322
16	7614-01C80000-A0BK8-0A*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.5	1.80	54.9	9300	288
17	7614-1C100000-A0BK8-0A*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11500	341
18	7614-1C100000-A0BK8-0A*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11500	341

\*Non-Compacted circular conductor, all other compacted circular conductor.



**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76D4-01C02500-A0BK8-NI	1C	25	7	0.9	1.0	9.9	1.6	13.1	1.4	0.92	15.7	480	44
2	76D4-01C03500-A0BK8-NI	1C	35	7	0.9	1.0	11.0	1.6	14.2	1.4	0.92	16.8	604	47
3	76D4-01C05000-A0BK8-NI	1C	50	19	1.0	1.0	12.5	1.6	15.7	1.5	1.00	18.5	760	56
4	76D4-01C07000-A0BK8-NI	1C	70	19	1.1	1.0	14.3	1.6	17.5	1.5	1.00	20.3	994	62
5	76D4-01C09500-A0BK8-NI	1C	95	19	1.1	1.0	15.9	1.6	19.1	1.6	1.08	22.1	1250	72
6	76D4-01C12000-A0BK8-NI	1C	120	19	1.2	1.0	17.5	1.6	20.7	1.7	1.16	23.7	1530	82
7	76D4-01C15000-A0BK8-NI	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1839	90
8	76D4-01C18500-A0BK8-NI	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2215	103
9	76D4-01C24000-A0BK8-NI	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.9	1.32	30.5	2805	119
10	76D4-01C30000-A0BK8-NI	1C	300	37	1.8	1.0	26.2	1.6	29.4	2.0	1.40	33.0	3430	136
11	76D4-01C40000-A0BK8-NI	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.1	1.48	38.0	4435	166
12	76D4-01C50000-A0BK8-NI	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.2	1.56	41.4	5515	190
13	76D4-01C63000-A0BK8-NI	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	6975	218
14	76D4-01C80000-A0BK8-NI	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.5	1.80	51.5	9150	269
15	76D4-1C100000-A0BK8-NI	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.7	1.96	56.9	11350	322
16	7614-01C80000-A0BK8-NI*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.5	1.80	54.9	9300	288
17	7614-1C100000-A0BK8-NI*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11500	341
18	7614-1C100000-A0BK8-NI*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11500	341

\*Non-Compacted circular conductor, all other compacted circular conductor.

## LV POWER, MULTI CORE, ARMoured CABLE

CU/XLPE/PVC/GSWA/PVC  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

Cables with Two/Three/Four and half core is available on request.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7614-02C00150-W0BK8-00*	2C	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	325	46
2	7614-02C00250-W0BK8-00*	2C	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	365	49
3	7614-02C00400-W0BK8-00*	2C	4	7	0.7	1.0	10.2	0.9	12.0	1.8	1.24	15.2	420	53
4	7614-02C00600-W0BK8-00*	2C	6	7	0.7	1.0	11.4	0.9	13.2	1.8	1.24	16.4	500	58
5	7614-02C01000-W0BK8-00*	2C	10	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	730	68
6	76D4-02C01600-W0BK8-00	2C	16	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	875	73
7	76D4-02C02500-W0BK8-00	2C	25	7	0.9	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1280	89
8	76D4-02C03500-W0BK8-00	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.8	1.24	26.4	1560	97
9	76D4-02C05000-W0BK8-00	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.8	1.24	29.5	1935	110
10	76D4-02C07000-W0BK8-00	2C	70	19	1.1	1.0	26.5	1.6	29.7	2.0	1.40	33.3	2495	138
11	76D4-02C09500-W0BK8-00	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3385	166
12	76D4-02C12000-W0BK8-00	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4035	190
13	76D4-02C15000-W0BK8-00	2C	150	19	1.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	4795	218
14	76D4-02C18500-W0BK8-00	2C	185	37	1.6	1.4	41.7	2.5	46.7	2.5	1.80	51.3	6135	268
15	76D4-02C24000-W0BK8-00	2C	240	37	1.7	1.4	46.6	2.5	51.6	2.7	1.96	56.6	7535	320
16	76D4-02C30000-W0BK8-00	2C	300	37	1.8	1.6	51.7	2.5	56.7	2.8	2.04	61.9	9125	364
17	76D4-02C40000-W0BK8-00	2C	400	61	2.0	1.6	58.8	2.5	63.8	3.1	2.28	69.6	11165	453
18	7614-03C00150-W0BK8-00*	3C	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	355	48
19	7614-03C00250-W0BK8-00*	3C	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	410	51
20	7614-03C00400-W0BK8-00*	3C	4	7	0.7	1.0	10.9	0.9	12.7	1.8	1.24	15.9	485	56
21	7614-03C00600-W0BK8-00*	3C	6	7	0.7	1.0	12.2	0.9	14.0	1.8	1.24	17.2	585	61
22	7614-03C01000-W0BK8-00*	3C	10	7	0.7	1.0	14.2	1.25	16.7	1.8	1.24	19.9	865	72
23	76D4-03C01600-W0BK8-00	3C	16	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1060	77
24	76D4-03C02500-W0BK8-00	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1565	93

**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
25	76D4-03C03500-W0BK8-00	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1950	103
26	7614-04C00150-W0BK8-00*	4C	1.5	7	0.7	1.0	9.6	0.9	11.4	1.8	1.24	14.6	390	51
27	7614-04C00250-W0BK8-00*	4C	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	465	55
28	7614-04C00400-W0BK8-00*	4C	4	7	0.7	1.0	11.9	0.9	13.7	1.8	1.24	16.9	555	60
29	7614-04C00600-W0BK8-00*	4C	6	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	775	68
30	7614-04C01000-W0BK8-00*	4C	10	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1015	77
31	76D4-04C01600-W0BK8-00	4C	16	7	0.7	1.0	17.2	1.6	20.4	1.8	1.24	23.6	1390	86
32	7614-05C00150-W0BK8-00-02*	5C	1.5	7	0.7	1.0	10.5	0.9	12.3	1.8	1.24	15.5	440	54
33	7614-05C00250-W0BK8-00-02*	5C	2.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	16.6	520	59
34	7614-05C00400-W0BK8-00-02*	5C	4	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	18.7	725	67
35	7614-05C00600-W0BK8-00-02*	5C	6	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	885	73
36	7614-05C01000-W0BK8-00-02*	5C	10	7	0.7	1.0	17.1	1.25	19.6	1.8	1.24	22.8	1180	83
37	76D4-05C01600-W0BK8-00-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.8	1.24	25.3	1615	93
38	76D4-05C02500-W0BK8-00-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2230	110
39	76D4-05C03500-W0BK8-00-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2825	129
40	76D4-05C05000-W0BK8-00-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.1	1.48	38.5	3910	168
41	76D4-05C07000-W0BK8-00-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.3	1.64	43.6	5170	209
42	76D4-05C09500-W0BK8-00-02	5C	95	19	1.1	1.4	40.2	2.5	45.2	2.5	1.80	49.8	6985	260
43	76D4-05C12000-W0BK8-00-02	5C	120	19	1.2	1.4	44.6	2.5	49.6	2.6	1.88	54.4	8465	296

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-W0BK8-0A*	2C	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	325	46
2	7614-02C00250-W0BK8-0A*	2C	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	365	49
3	7614-02C00400-W0BK8-0A*	2C	4	7	0.7	1.0	10.2	0.9	12.0	1.8	1.24	15.2	420	53
4	7614-02C00600-W0BK8-0A*	2C	6	7	0.7	1.0	11.4	0.9	13.2	1.8	1.24	16.4	500	58
5	7614-02C01000-W0BK8-0A*	2C	10	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	730	68
6	76D4-02C01600-W0BK8-0A	2C	16	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	875	73
7	76D4-02C02500-W0BK8-0A	2C	25	7	0.9	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1280	89
8	76D4-02C03500-W0BK8-0A	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.8	1.24	26.4	1560	97
9	76D4-02C05000-W0BK8-0A	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.8	1.24	29.5	1935	110
10	76D4-02C07000-W0BK8-0A	2C	70	19	1.1	1.0	26.5	1.6	29.7	2.0	1.40	33.3	2495	138
11	76D4-02C09500-W0BK8-0A	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3385	166
12	76D4-02C12000-W0BK8-0A	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4035	190
13	76D4-02C15000-W0BK8-0A	2C	150	19	1.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	4795	218
14	76D4-02C18500-W0BK8-0A	2C	185	37	1.6	1.4	41.7	2.5	46.7	2.5	1.80	51.3	6135	268
15	76D4-02C24000-W0BK8-0A	2C	240	37	1.7	1.4	46.6	2.5	51.6	2.7	1.96	56.6	7535	320
16	76D4-02C30000-W0BK8-0A	2C	300	37	1.8	1.6	51.7	2.5	56.7	2.8	2.04	61.9	9125	364
17	76D4-02C40000-W0BK8-0A	2C	400	61	2.0	1.6	58.8	2.5	63.8	3.1	2.28	69.6	11165	453
18	7614-03C00150-W0BK8-0A*	3C	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	355	48
19	7614-03C00250-W0BK8-0A*	3C	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	410	51
20	7614-03C00400-W0BK8-0A*	3C	4	7	0.7	1.0	10.9	0.9	12.7	1.8	1.24	15.9	485	56
21	7614-03C00600-W0BK8-0A*	3C	6	7	0.7	1.0	12.2	0.9	14.0	1.8	1.24	17.2	585	61
22	7614-03C01000-W0BK8-0A*	3C	10	7	0.7	1.0	14.2	1.25	16.7	1.8	1.24	19.9	865	72
23	76D4-03C01600-W0BK8-0A	3C	16	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1060	77
24	76D4-03C02500-W0BK8-0A	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1565	93

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
25	76D4-03C03500-W0BK8-0A	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1950	103
26	7614-04C00150-W0BK8-0A*	4C	1.5	7	0.7	1.0	9.6	0.9	11.4	1.8	1.24	14.6	390	51
27	7614-04C00250-W0BK8-0A*	4C	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	465	55
28	7614-04C00400-W0BK8-0A*	4C	4	7	0.7	1.0	11.9	0.9	13.7	1.8	1.24	16.9	555	60
29	7614-04C00600-W0BK8-0A*	4C	6	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	775	68
30	7614-04C01000-W0BK8-0A*	4C	10	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1015	77
31	76D4-04C01600-W0BK8-0A	4C	16	7	0.7	1.0	17.2	1.6	20.4	1.8	1.24	23.6	1390	86
32	7614-05C00150-W0BK8-0A-02*	5C	1.5	7	0.7	1.0	10.5	0.9	12.3	1.8	1.24	15.5	440	54
33	7614-05C00250-W0BK8-0A-02*	5C	2.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	16.6	520	59
34	7614-05C00400-W0BK8-0A-02*	5C	4	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	18.7	725	67
35	7614-05C00600-W0BK8-0A-02*	5C	6	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	885	73
36	7614-05C01000-W0BK8-0A-02*	5C	10	7	0.7	1.0	17.1	1.25	19.6	1.8	1.24	22.8	1180	83
37	76D4-05C01600-W0BK8-0A-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.8	1.24	25.3	1615	93
38	76D4-05C02500-W0BK8-0A-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2230	110
39	76D4-05C03500-W0BK8-0A-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2825	129
40	76D4-05C05000-W0BK8-0A-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.1	1.48	38.5	3910	168
41	76D4-05C07000-W0BK8-0A-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.3	1.64	43.6	5170	209
42	76D4-05C09500-W0BK8-0A-02	5C	95	19	1.1	1.4	40.2	2.5	45.2	2.5	1.80	49.8	6985	260
43	76D4-05C12000-W0BK8-0A-02	5C	120	19	1.2	1.4	44.6	2.5	49.6	2.6	1.88	54.4	8465	296

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7614-02C00150-W0BK8-NI*	2C	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	325	46
2	7614-02C00250-W0BK8-NI*	2C	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	365	49
3	7614-02C00400-W0BK8-NI*	2C	4	7	0.7	1.0	10.2	0.9	12.0	1.8	1.24	15.2	420	53
4	7614-02C00600-W0BK8-NI*	2C	6	7	0.7	1.0	11.4	0.9	13.2	1.8	1.24	16.4	500	58
5	7614-02C01000-W0BK8-NI*	2C	10	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	730	68
6	76D4-02C01600-W0BK8-NI	2C	16	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	875	73
7	76D4-02C02500-W0BK8-NI	2C	25	7	0.9	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1280	89
8	76D4-02C03500-W0BK8-NI	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.8	1.24	26.4	1560	97
9	76D4-02C05000-W0BK8-NI	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.8	1.24	29.5	1935	110
10	76D4-02C07000-W0BK8-NI	2C	70	19	1.1	1.0	26.5	1.6	29.7	2.0	1.40	33.3	2495	138
11	76D4-02C09500-W0BK8-NI	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3385	166
12	76D4-02C12000-W0BK8-NI	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4035	190
13	76D4-02C15000-W0BK8-NI	2C	150	19	1.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	4795	218
14	76D4-02C18500-W0BK8-NI	2C	185	37	1.6	1.4	41.7	2.5	46.7	2.5	1.80	51.3	6135	268
15	76D4-02C24000-W0BK8-NI	2C	240	37	1.7	1.4	46.6	2.5	51.6	2.7	1.96	56.6	7535	320
16	76D4-02C30000-W0BK8-NI	2C	300	37	1.8	1.6	51.7	2.5	56.7	2.8	2.04	61.9	9125	364
17	76D4-02C40000-W0BK8-NI	2C	400	61	2.0	1.6	58.8	2.5	63.8	3.1	2.28	69.6	11165	453
18	7614-03C00150-W0BK8-NI*	3C	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	355	48
19	7614-03C00250-W0BK8-NI*	3C	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	410	51
20	7614-03C00400-W0BK8-NI*	3C	4	7	0.7	1.0	10.9	0.9	12.7	1.8	1.24	15.9	485	56
21	7614-03C00600-W0BK8-NI*	3C	6	7	0.7	1.0	12.2	0.9	14.0	1.8	1.24	17.2	585	61
22	7614-03C01000-W0BK8-NI*	3C	10	7	0.7	1.0	14.2	1.25	16.7	1.8	1.24	19.9	865	72
23	76D4-03C01600-W0BK8-NI	3C	16	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1060	77
24	76D4-03C02500-W0BK8-NI	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1565	93

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
25	76D4-03C03500-W0BK8-NI	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1950	103
26	7614-04C00150-W0BK8-NI*	4C	1.5	7	0.7	1.0	9.6	0.9	11.4	1.8	1.24	14.6	390	51
27	7614-04C00250-W0BK8-NI*	4C	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	465	55
28	7614-04C00400-W0BK8-NI*	4C	4	7	0.7	1.0	11.9	0.9	13.7	1.8	1.24	16.9	555	60
29	7614-04C00600-W0BK8-NI*	4C	6	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	775	68
30	7614-04C01000-W0BK8-NI*	4C	10	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1015	77
31	76D4-04C01600-W0BK8-NI	4C	16	7	0.7	1.0	17.2	1.6	20.4	1.8	1.24	23.6	1390	86
32	7614-05C00150-W0BK8-NI-02*	5C	1.5	7	0.7	1.0	10.5	0.9	12.3	1.8	1.24	15.5	440	54
33	7614-05C00250-W0BK8-NI-02*	5C	2.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	16.6	520	59
34	7614-05C00400-W0BK8-NI-02*	5C	4	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	18.7	725	67
35	7614-05C00600-W0BK8-NI-02*	5C	6	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	885	73
36	7614-05C01000-W0BK8-NI-02*	5C	10	7	0.7	1.0	17.1	1.25	19.6	1.8	1.24	22.8	1180	83
37	76D4-05C01600-W0BK8-NI-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.8	1.24	25.3	1615	93
38	76D4-05C02500-W0BK8-NI-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2230	110
39	76D4-05C03500-W0BK8-NI-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2825	129
40	76D4-05C05000-W0BK8-NI-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.1	1.48	38.5	3910	168
41	76D4-05C07000-W0BK8-NI-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.3	1.64	43.6	5170	209
42	76D4-05C09500-W0BK8-NI-02	5C	95	19	1.1	1.4	40.2	2.5	45.2	2.5	1.80	49.8	6985	260
43	76D4-05C12000-W0BK8-NI-02	5C	120	19	1.2	1.4	44.6	2.5	49.6	2.6	1.88	54.4	8465	296

\*Non-Compacted conductor, all other compacted conductor



**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76F4-03C02500-W0BK8-00	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.8	1.24	22.9	1455	83
2	76F4-03C03500-W0BK8-00	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
3	76F4-03C05000-W0BK8-00	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.9	1.32	27.8	2300	108
4	76F4-03C07000-W0BK8-00	3C	70	19	1.1	1.2	25.1	2.0	28.7	2.0	1.40	32.3	3265	133
5	76F4-03C09500-W0BK8-00	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.2	1.56	35.6	4110	162
6	76F4-03C12000-W0BK8-00	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.3	1.64	38.7	4980	184
7	76F4-03C15000-W0BK8-00	3C	150	19	1.4	1.4	35.1	2.5	39.6	2.5	1.80	44.0	6410	228
8	76F4-03C18500-W0BK8-00	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.6	1.88	47.8	7585	258
9	76F4-03C24000-W0BK8-00	3C	240	37	1.7	1.6	42.7	2.5	47.7	2.8	2.04	52.9	9555	308
10	76F4-03C30000-W0BK8-00	3C	300	37	1.8	1.6	46.9	2.5	51.9	3.0	2.20	57.5	11690	360
11	76F4-03C40000-W0BK8-00	3C	400	61	2.0	1.6	53.3	2.5	58.3	3.2	2.36	64.3	14350	430
12	76F4-04C02500-W0BK8-00	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.8	1.24	25.8	1815	95
13	76F4-04C03500-W0BK8-00	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.9	1.32	28.4	2290	111
14	76F4-04C05000-W0BK8-00	4C	50	19	1.0	1.0	25.0	1.6	28.2	2.0	1.40	31.9	2950	131
15	76F4-04C07000-W0BK8-00	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.2	1.56	37.5	4190	171
16	76F4-04C09500-W0BK8-00	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.3	1.64	41.2	5300	197
17	76F4-04C12000-W0BK8-00	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.5	1.80	46.6	6875	242
18	76F4-04C15000-W0BK8-00	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.6	1.88	51.1	8210	277
19	76F4-04C18500-W0BK8-00	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.8	2.04	55.9	9850	327
20	76F4-04C24000-W0BK8-00	4C	240	37	1.7	1.6	51.4	2.5	56.4	3.0	2.20	62.0	12450	389
21	76F4-04C30000-W0BK8-00	4C	300	37	1.8	1.6	56.6	2.5	61.6	3.2	2.36	67.6	15250	453
22	76F4-04C40000-W0BK8-00	4C	400	61	2.0	1.8	64.8	3.15	71.1	3.5	2.60	77.8	19735	572

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA.(mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76F4-03C02500-W0BK8-0A	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.8	1.24	22.9	1455	83
2	76F4-03C03500-W0BK8-0A	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
3	76F4-03C05000-W0BK8-0A	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.9	1.32	27.8	2300	108
4	76F4-03C07000-W0BK8-0A	3C	70	19	1.1	1.2	25.1	2.0	28.7	2.0	1.40	32.3	3265	133
5	76F4-03C09500-W0BK8-0A	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.2	1.56	35.6	4110	162
6	76F4-03C12000-W0BK8-0A	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.3	1.64	38.7	4980	184
7	76F4-03C15000-W0BK8-0A	3C	150	19	1.4	1.4	35.1	2.5	39.6	2.5	1.80	44.0	6410	228
8	76F4-03C18500-W0BK8-0A	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.6	1.88	47.8	7585	258
9	76F4-03C24000-W0BK8-0A	3C	240	37	1.7	1.6	42.7	2.5	47.7	2.8	2.04	52.9	9555	308
10	76F4-03C30000-W0BK8-0A	3C	300	37	1.8	1.6	46.9	2.5	51.9	3.0	2.20	57.5	11690	360
11	76F4-03C40000-W0BK8-0A	3C	400	61	2.0	1.6	53.3	2.5	58.3	3.2	2.36	64.3	14350	430
12	76F4-04C02500-W0BK8-0A	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.8	1.24	25.8	1815	95
13	76F4-04C03500-W0BK8-0A	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.9	1.32	28.4	2290	111
14	76F4-04C05000-W0BK8-0A	4C	50	19	1.0	1.0	25.0	1.6	28.2	2.0	1.40	31.9	2950	131
15	76F4-04C07000-W0BK8-0A	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.2	1.56	37.5	4190	171
16	76F4-04C09500-W0BK8-0A	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.3	1.64	41.2	5300	197
17	76F4-04C12000-W0BK8-0A	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.5	1.80	46.6	6875	242
18	76F4-04C15000-W0BK8-0A	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.6	1.88	51.1	8210	277
19	76F4-04C18500-W0BK8-0A	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.8	2.04	55.9	9850	327
20	76F4-04C24000-W0BK8-0A	4C	240	37	1.7	1.6	51.4	2.5	56.4	3.0	2.20	62.0	12450	389
21	76F4-04C30000-W0BK8-0A	4C	300	37	1.8	1.6	56.6	2.5	61.6	3.2	2.36	67.6	15250	453
22	76F4-04C40000-W0BK8-0A	4C	400	61	2.0	1.8	64.8	3.15	71.1	3.5	2.60	77.8	19735	572

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76F4-03C02500-W0BK8-NI	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.8	1.24	22.9	1455	83
2	76F4-03C03500-W0BK8-NI	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1800	91
3	76F4-03C05000-W0BK8-NI	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.9	1.32	27.8	2300	108
4	76F4-03C07000-W0BK8-NI	3C	70	19	1.1	1.2	25.1	2.0	28.7	2.0	1.40	32.3	3265	133
5	76F4-03C09500-W0BK8-NI	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.2	1.56	35.6	4110	162
6	76F4-03C12000-W0BK8-NI	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.3	1.64	38.7	4980	184
7	76F4-03C15000-W0BK8-NI	3C	150	19	1.4	1.4	35.1	2.5	39.6	2.5	1.80	44.0	6410	228
8	76F4-03C18500-W0BK8-NI	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.6	1.88	47.8	7585	258
9	76F4-03C24000-W0BK8-NI	3C	240	37	1.7	1.6	42.7	2.5	47.7	2.8	2.04	52.9	9555	308
10	76F4-03C30000-W0BK8-NI	3C	300	37	1.8	1.6	46.9	2.5	51.9	3.0	2.20	57.5	11690	360
11	76F4-03C40000-W0BK8-NI	3C	400	61	2.0	1.6	53.3	2.5	58.3	3.2	2.36	64.3	14350	430
12	76F4-04C02500-W0BK8-NI	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.8	1.24	25.8	1815	95
13	76F4-04C03500-W0BK8-NI	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.9	1.32	28.4	2290	111
14	76F4-04C05000-W0BK8-NI	4C	50	19	1.0	1.0	25.0	1.6	28.2	2.0	1.40	31.9	2950	131
15	76F4-04C07000-W0BK8-NI	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.2	1.56	37.5	4190	171
16	76F4-04C09500-W0BK8-NI	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.3	1.64	41.2	5300	197
17	76F4-04C12000-W0BK8-NI	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.5	1.80	46.6	6875	242
18	76F4-04C15000-W0BK8-NI	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.6	1.88	51.1	8210	277
17	76F4-04C18500-W0BK8-NI	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.8	2.04	55.9	9850	327
18	76F4-04C24000-W0BK8-NI	4C	240	37	1.7	1.6	51.4	2.5	56.4	3.0	2.20	62.0	12450	389
19	76F4-04C30000-W0BK8-NI	4C	300	37	1.8	1.6	56.6	2.5	61.6	3.2	2.36	67.6	15250	453
20	76F4-04C40000-W0BK8-NI	4C	400	61	2.0	1.8	64.8	3.15	71.1	3.5	2.60	77.8	19735	572

## CONTROL, MULTI CORE, ARMoured CABLE

CU/XLPE/PVC/GSWA/PVC  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C & Above: Black cores with Number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Armor	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/GSWA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7614-02C00150-W0BK8-00	2	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	325	46
2	7614-03C00150-W0BK8-00	3	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	355	48
3	7614-04C00150-W0BK8-00	4	1.5	7	0.7	1.0	9.7	0.9	11.5	1.8	1.24	14.7	390	51
4	7614-05C00150-W0BK8-00	5	1.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	440	55
5	7614-06C00150-W0BK8-00	6	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	512	60
6	7614-07C00150-W0BK8-00	7	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	528	60
7	7614-08C00150-W0BK8-00	8	1.5	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	19.1	684	68
8	7614-10C00150-W0BK8-00	10	1.5	7	0.7	1.0	14.7	1.25	17.2	1.8	1.24	20.8	789	75
9	7614-12C00150-W0BK8-00	12	1.5	7	0.7	1.0	15.2	1.25	17.7	1.8	1.24	21.3	860	77
10	7614-14C00150-W0BK8-00	14	1.5	7	0.7	1.0	16.0	1.25	18.5	1.8	1.24	22.1	918	80
11	7614-15C00150-W0BK8-00	15	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	974	84
12	7614-16C00150-W0BK8-00	16	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	994	84
13	7614-18C00150-W0BK8-00	18	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1070	87
14	7614-19C00150-W0BK8-00	19	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1086	87
15	7614-20C00150-W0BK8-00	20	1.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1274	94
16	7614-22C00150-W0BK8-00	22	1.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1359	99
17	7614-24C00150-W0BK8-00	24	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1451	102
18	7614-25C00150-W0BK8-00	25	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1472	102
19	7614-26C00150-W0BK8-00	26	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1493	102
20	7614-30C00150-W0BK8-00	30	1.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1625	108
21	7614-32C00150-W0BK8-00	32	1.5	7	0.7	1.0	23.0	1.6	26.2	1.8	1.24	29.8	1696	111
22	7614-35C00150-W0BK8-00	35	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1790	115
23	7614-36C00150-W0BK8-00	36	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1820	115
24	7614-40C00150-W0BK8-00	40	1.5	7	0.7	1.0	25.0	1.6	28.2	1.9	1.32	32.0	1950	126
25	7614-50C00150-W0BK8-00	50	1.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2306	146

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
26	7614-61C00150-W0BK8-00	61	1.5	7	0.7	1.2	30.6	2.0	34.6	2.1	1.48	38.8	2930	169
27	7614-02C00250-W0BK8-00	2	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	365	49
28	7614-03C00250-W0BK8-00	3	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	410	51
29	7614-04C00250-W0BK8-00	4	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	465	55
30	7614-05C00250-W0BK8-00	5	2.5	7	0.7	1.0	11.8	0.9	13.6	1.8	1.24	16.8	520	59
31	7614-06C00250-W0BK8-00	6	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	704	68
32	7614-07C00250-W0BK8-00	7	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	730	68
33	7614-08C00250-W0BK8-00	8	2.5	7	0.7	1.0	14.5	1.25	17.0	1.8	1.24	20.6	824	74
34	7614-10C00250-W0BK8-00	10	2.5	7	0.7	1.0	16.4	1.25	18.9	1.8	1.24	22.5	950	82
35	7614-12C00250-W0BK8-00	12	2.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	1037	84
36	7614-14C00250-W0BK8-00	14	2.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1116	87
37	7614-15C00250-W0BK8-00	15	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1315	94
38	7614-16C00250-W0BK8-00	16	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1345	94
39	7614-18C00250-W0BK8-00	18	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1459	99
40	7614-19C00250-W0BK8-00	19	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1485	99
41	7614-20C00250-W0BK8-00	20	2.5	7	0.7	1.0	21.1	1.6	24.3	1.8	1.24	27.9	1567	103
42	7614-22C00250-W0BK8-00	22	2.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1664	108
43	7614-24C00250-W0BK8-00	24	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1781	112
44	7614-25C00250-W0BK8-00	25	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1812	112
45	7614-26C00250-W0BK8-00	26	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1842	112
46	7614-30C00250-W0BK8-00	30	2.5	7	0.7	1.0	24.8	1.6	28.0	1.9	1.32	31.8	2042	125
47	7614-32C00250-W0BK8-00	32	2.5	7	0.7	1.0	25.9	1.6	29.1	1.9	1.32	32.9	2146	129
48	7614-35C00250-W0BK8-00	35	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2262	134
49	7614-36C00250-W0BK8-00	36	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2301	134
50	7614-40C00250-W0BK8-00	40	2.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2479	146
51	7614-50C00250-W0BK8-00	50	2.5	7	0.7	1.2	32.1	2.0	36.1	2.1	1.48	40.3	3252	176
52	7614-61C00250-W0BK8-00	61	2.5	7	0.7	1.2	34.3	2.0	38.3	2.2	1.56	42.7	3718	196



**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-W0BK8-0A	2	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	325	46
2	7614-03C00150-W0BK8-0A	3	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	355	48
3	7614-04C00150-W0BK8-0A	4	1.5	7	0.7	1.0	9.7	0.9	11.5	1.8	1.24	14.7	390	51
4	7614-05C00150-W0BK8-0A	5	1.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	440	55
5	7614-06C00150-W0BK8-0A	6	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	512	60
6	7614-07C00150-W0BK8-0A	7	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	528	60
7	7614-08C00150-W0BK8-0A	8	1.5	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	19.1	684	68
8	7614-10C00150-W0BK8-0A	10	1.5	7	0.7	1.0	14.7	1.25	17.2	1.8	1.24	20.8	789	75
9	7614-12C00150-W0BK8-0A	12	1.5	7	0.7	1.0	15.2	1.25	17.7	1.8	1.24	21.3	860	77
10	7614-14C00150-W0BK8-0A	14	1.5	7	0.7	1.0	16.0	1.25	18.5	1.8	1.24	22.1	918	80
11	7614-15C00150-W0BK8-0A	15	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	974	84
12	7614-16C00150-W0BK8-0A	16	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	994	84
13	7614-18C00150-W0BK8-0A	18	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1070	87
14	7614-19C00150-W0BK8-0A	19	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1086	87
15	7614-20C00150-W0BK8-0A	20	1.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1274	94
16	7614-22C00150-W0BK8-0A	22	1.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1359	99
17	7614-24C00150-W0BK8-0A	24	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1451	102
18	7614-25C00150-W0BK8-0A	25	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1472	102
19	7614-26C00150-W0BK8-0A	26	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1493	102
20	7614-30C00150-W0BK8-0A	30	1.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1625	108
21	7614-32C00150-W0BK8-0A	32	1.5	7	0.7	1.0	23.0	1.6	26.2	1.8	1.24	29.8	1696	111
22	7614-35C00150-W0BK8-0A	35	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1790	115
23	7614-36C00150-W0BK8-0A	36	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1820	115
24	7614-40C00150-W0BK8-0A	40	1.5	7	0.7	1.0	25.0	1.6	28.2	1.9	1.32	32.0	1950	126
25	7614-50C00150-W0BK8-0A	50	1.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2306	146
26	7614-61C00150-W0BK8-0A	61	1.5	7	0.7	1.2	30.6	2.0	34.6	2.1	1.48	38.8	2930	169
27	7614-02C00250-W0BK8-0A	2	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	365	49
28	7614-03C00250-W0BK8-0A	3	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	410	51
29	7614-04C00250-W0BK8-0A	4	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	465	55
30	7614-05C00250-W0BK8-0A	5	2.5	7	0.7	1.0	11.8	0.9	13.6	1.8	1.24	16.8	520	59
31	7614-06C00250-W0BK8-0A	6	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	704	68
32	7614-07C00250-W0BK8-0A	7	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	730	68

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
33	7614-08C00250-W0BK8-0A	8	2.5	7	0.7	1.0	14.5	1.25	17.0	1.8	1.24	20.6	824	74
34	7614-10C00250-W0BK8-0A	10	2.5	7	0.7	1.0	16.4	1.25	18.9	1.8	1.24	22.5	950	82
35	7614-12C00250-W0BK8-0A	12	2.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	1037	84
36	7614-14C00250-W0BK8-0A	14	2.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1116	87
37	7614-15C00250-W0BK8-0A	15	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1315	94
38	7614-16C00250-W0BK8-0A	16	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1345	94
39	7614-18C00250-W0BK8-0A	18	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1459	99
40	7614-19C00250-W0BK8-0A	19	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1485	99
41	7614-20C00250-W0BK8-0A	20	2.5	7	0.7	1.0	21.1	1.6	24.3	1.8	1.24	27.9	1567	103
42	7614-22C00250-W0BK8-0A	22	2.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1664	108
43	7614-24C00250-W0BK8-0A	24	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1781	112
44	7614-25C00250-W0BK8-0A	25	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1812	112
45	7614-26C00250-W0BK8-0A	26	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1842	112
46	7614-30C00250-W0BK8-0A	30	2.5	7	0.7	1.0	24.8	1.6	28.0	1.9	1.32	31.8	2042	125
47	7614-32C00250-W0BK8-0A	32	2.5	7	0.7	1.0	25.9	1.6	29.1	1.9	1.32	32.9	2146	129
48	7614-35C00250-W0BK8-0A	35	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2262	134
49	7614-36C00250-W0BK8-0A	36	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2301	134
50	7614-40C00250-W0BK8-0A	40	2.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2479	146
51	7614-50C00250-W0BK8-0A	50	2.5	7	0.7	1.2	32.1	2.0	36.1	2.1	1.48	40.3	3252	176
52	7614-61C00250-W0BK8-0A	61	2.5	7	0.7	1.2	34.3	2.0	38.3	2.2	1.56	42.7	3718	196
53	7614-30C00250-W0BK8-00	30	2.5	7	0.7	1.0	24.8	1.6	28.0	1.9	1.32	31.8	2042	125
54	7614-32C00250-W0BK8-00	32	2.5	7	0.7	1.0	25.9	1.6	29.1	1.9	1.32	32.9	2146	129
55	7614-35C00250-W0BK8-00	35	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2262	134
56	7614-36C00250-W0BK8-00	36	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2301	134
57	7614-40C00250-W0BK8-00	40	2.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2479	146
58	7614-50C00250-W0BK8-0A	50	2.5	7	0.7	1.2	32.1	2.0	36.1	2.1	1.48	40.3	3252	176
59	7614-61C00250-W0BK8-0A	61	2.5	7	0.7	1.2	34.3	2.0	38.3	2.2	1.56	42.7	3718	196



**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm2)	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-W0BK8-NI	2	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	325	46
2	7614-03C00150-W0BK8-NI	3	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	355	48
3	7614-04C00150-W0BK8-NI	4	1.5	7	0.7	1.0	9.7	0.9	11.5	1.8	1.24	14.7	390	51
4	7614-05C00150-W0BK8-NI	5	1.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	440	55
5	7614-06C00150-W0BK8-NI	6	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	512	60
6	7614-07C00150-W0BK8-NI	7	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	528	60
7	7614-08C00150-W0BK8-NI	8	1.5	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	19.1	684	68
8	7614-10C00150-W0BK8-NI	10	1.5	7	0.7	1.0	14.7	1.25	17.2	1.8	1.24	20.8	789	75
9	7614-12C00150-W0BK8-NI	12	1.5	7	0.7	1.0	15.2	1.25	17.7	1.8	1.24	21.3	860	77
10	7614-14C00150-W0BK8-NI	14	1.5	7	0.7	1.0	16.0	1.25	18.5	1.8	1.24	22.1	918	80
11	7614-15C00150-W0BK8-NI	15	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	974	84
12	7614-16C00150-W0BK8-NI	16	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	994	84
13	7614-18C00150-W0BK8-NI	18	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1070	87
14	7614-19C00150-W0BK8-NI	19	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1086	87
15	7614-20C00150-W0BK8-NI	20	1.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1274	94
16	7614-22C00150-W0BK8-NI	22	1.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1359	99
17	7614-24C00150-W0BK8-NI	24	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1451	102
18	7614-25C00150-W0BK8-NI	25	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1472	102
19	7614-26C00150-W0BK8-NI	26	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1493	102
20	7614-30C00150-W0BK8-NI	30	1.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1625	108
21	7614-32C00150-W0BK8-NI	32	1.5	7	0.7	1.0	23.0	1.6	26.2	1.8	1.24	29.8	1696	111
22	7614-35C00150-W0BK8-NI	35	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1790	115
23	7614-36C00150-W0BK8-NI	36	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1820	115

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm2)	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
24	7614-40C00150-W0BK8-NI	40	1.5	7	0.7	1.0	25.0	1.6	28.2	1.9	1.32	32.0	1950	126
25	7614-50C00150-W0BK8-NI	50	1.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2306	146
26	7614-61C00150-W0BK8-NI	61	1.5	7	0.7	1.2	30.6	2.0	34.6	2.1	1.48	38.8	2930	169
27	7614-02C00250-W0BK8-NI	2	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	365	49
28	7614-03C00250-W0BK8-NI	3	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	410	51
29	7614-04C00250-W0BK8-NI	4	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	465	55
30	7614-05C00250-W0BK8-NI	5	2.5	7	0.7	1.0	11.8	0.9	13.6	1.8	1.24	16.8	520	59
31	7614-06C00250-W0BK8-NI	6	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	704	68
32	7614-07C00250-W0BK8-NI	7	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	730	68
33	7614-08C00250-W0BK8-NI	8	2.5	7	0.7	1.0	14.5	1.25	17.0	1.8	1.24	20.6	824	74
34	7614-10C00250-W0BK8-NI	10	2.5	7	0.7	1.0	16.4	1.25	18.9	1.8	1.24	22.5	950	82
35	7614-12C00250-W0BK8-NI	12	2.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	1037	84
36	7614-14C00250-W0BK8-NI	14	2.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1116	87
37	7614-15C00250-W0BK8-NI	15	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1315	94
38	7614-16C00250-W0BK8-NI	16	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1345	94
39	7614-18C00250-W0BK8-NI	18	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1459	99
40	7614-19C00250-W0BK8-NI	19	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1485	99
41	7614-20C00250-W0BK8-NI	20	2.5	7	0.7	1.0	21.1	1.6	24.3	1.8	1.24	27.9	1567	103
42	7614-22C00250-W0BK8-NI	22	2.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1664	108
43	7614-24C00250-W0BK8-NI	24	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1781	112
44	7614-25C00250-W0BK8-NI	25	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1812	112
45	7614-26C00250-W0BK8-NI	26	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1842	112
46	7614-30C00250-W0BK8-NI	30	2.5	7	0.7	1.0	24.8	1.6	28.0	1.9	1.32	31.8	2042	125
47	7614-32C00250-W0BK8-NI	32	2.5	7	0.7	1.0	25.9	1.6	29.1	1.9	1.32	32.9	2146	129
48	7614-35C00250-W0BK8-NI	35	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2262	134
49	7614-36C00250-W0BK8-NI	36	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2301	134
50	7614-40C00250-W0BK8-NI	40	2.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2479	146
51	7614-50C00250-W0BK8-NI	50	2.5	7	0.7	1.2	32.1	2.0	36.1	2.1	1.48	40.3	3252	176
52	7614-61C00250-W0BK8-NI	61	2.5	7	0.7	1.2	34.3	2.0	38.3	2.2	1.56	42.7	3718	196

# LV POWER, MULTI CORE, STEEL TAPE ARMoured CABLE

## U/XLPE/PVC/DSTA/PVC

### SPECIFICATION: IEC 60502-1



#### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building.

#### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Steel Tape Armor	Double galvanized steel tape applied helically over the inner sheath as per IEC-60502-1.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/DSTA/PVC NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

#### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

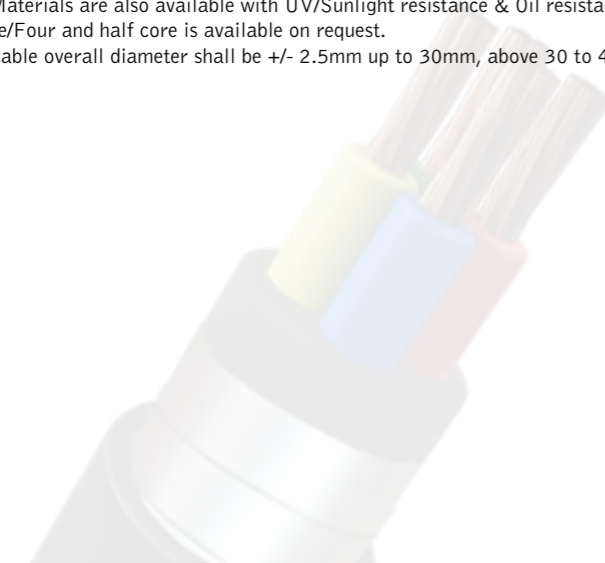
\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

Cables with Two/Three/Four and half core is available on request.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.



**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7614-02C00150-G0BK8-00*	2C	1.5	7	0.7	1.0	8.4	0.2	9.2	1.8	1.24	12.4	230	42
2	7614-02C00250-G0BK8-00*	2C	2.5	7	0.7	1.0	9.2	0.2	10.0	1.8	1.24	13.2	265	45
3	7614-02C00400-G0BK8-00*	2C	4	7	0.7	1.0	10.2	0.2	11.0	1.8	1.24	14.2	315	49
4	7614-02C00600-G0BK8-00*	2C	6	7	0.7	1.0	11.4	0.2	12.2	1.8	1.24	15.4	380	54
5	7614-02C01000-G0BK8-00*	2C	10	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	500	61
6	76D4-02C01600-G0BK8-00	2C	16	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	620	66
7	76D4-02C02500-G0BK8-00	2C	25	7	0.9	1.0	17.8	0.2	18.6	1.8	1.24	21.8	860	79
8	76D4-02C03500-G0BK8-00	2C	35	7	0.9	1.0	20.0	0.2	20.8	1.8	1.24	24.0	1090	88
9	76D4-02C05000-G0BK8-00	2C	50	19	1.0	1.0	23.1	0.2	23.9	1.8	1.24	27.1	1390	100
10	76D4-02C07000-G0BK8-00	2C	70	19	1.1	1.0	26.5	0.2	27.3	1.9	1.32	30.7	1855	120
11	76D4-02C09500-G0BK8-00	2C	95	19	1.1	1.2	30.0	0.2	31.0	2.0	1.40	34.6	2420	143
12	76D4-02C12000-G0BK8-00	2C	120	19	1.2	1.2	33.5	0.5	35.5	2.2	1.56	39.5	3370	180
13	76D4-02C15000-G0BK8-00	2C	150	19	1.4	1.2	37.3	0.5	39.3	2.3	1.64	43.3	4020	207
14	76D4-02C18500-G0BK8-00	2C	185	37	1.6	1.4	41.7	0.5	43.7	2.5	1.80	48.1	4880	251
15	76D4-02C24000-G0BK8-00	2C	240	37	1.7	1.4	46.6	0.5	48.6	2.6	1.88	53.2	6130	289
16	76D4-02C30000-G0BK8-00	2C	300	37	1.8	1.6	51.7	0.5	53.7	2.8	2.04	58.5	7560	343
17	76D4-02C40000-G0BK8-00	2C	400	61	2.0	1.6	58.8	0.5	60.8	3.0	2.20	66.0	9360	416
18	7614-03C00150-G0BK8-00*	3C	1.5	7	0.7	1.0	8.9	0.2	9.7	1.8	1.24	12.9	260	44
19	7614-03C00250-G0BK8-00*	3C	2.5	7	0.7	1.0	9.8	0.2	10.6	1.8	1.24	13.8	305	47
20	7614-03C00400-G0BK8-00*	3C	4	7	0.7	1.0	10.9	0.2	11.7	1.8	1.24	14.9	370	52
21	7614-03C00600-G0BK8-00*	3C	6	7	0.7	1.0	12.2	0.2	13.0	1.8	1.24	16.2	460	57
22	7614-03C01000-G0BK8-00*	3C	10	7	0.7	1.0	14.2	0.2	15.0	1.8	1.24	18.2	620	65
23	76D4-03C01600-G0BK8-00	3C	16	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	795	70
24	76D4-03C02500-G0BK8-00	3C	25	7	0.9	1.0	19.0	0.2	19.8	1.8	1.24	23.0	1120	84
25	76D4-03C03500-G0BK8-00	3C	35	7	0.9	1.0	21.4	0.2	22.2	1.8	1.24	25.4	1390	93

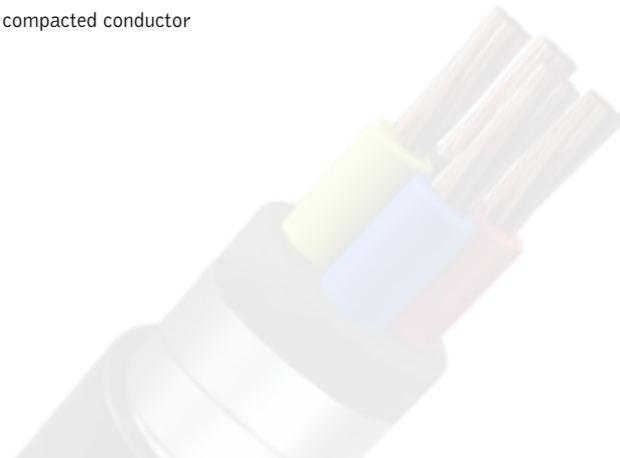
\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MES C MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
26	7614-04C00150-G0BK8-00*	4C	1.5	7	0.7	1.0	9.6	0.2	10.4	1.8	1.24	13.6	290	47
27	7614-04C00250-G0BK8-00*	4C	2.5	7	0.7	1.0	10.7	0.2	11.5	1.8	1.24	14.7	355	51
28	7614-04C00400-G0BK8-00*	4C	4	7	0.7	1.0	11.9	0.2	12.7	1.8	1.24	15.9	435	56
29	7614-04C00600-G0BK8-00*	4C	6	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	545	61
30	7614-04C01000-G0BK8-00*	4C	10	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	750	70
31	76D4-04C01600-G0BK8-00	4C	16	7	0.7	1.0	17.2	0.2	18.0	1.8	1.24	21.2	980	77
32	7614-05C00150-G0BK8-00-02*	5C	1.5	7	0.7	1.0	10.5	0.2	11.3	1.8	1.24	14.5	330	50
33	7614-05C00250-G0BK8-00-02*	5C	2.5	7	0.7	1.0	11.6	0.2	12.4	1.8	1.24	15.6	400	55
34	7614-05C00400-G0BK8-00-02*	5C	4	7	0.7	1.0	13.0	0.2	13.8	1.8	1.24	17.0	500	60
35	7614-05C00600-G0BK8-00-02*	5C	6	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	635	66
36	7614-05C01000-G0BK8-00-02*	5C	10	7	0.7	1.0	17.1	0.2	17.9	1.8	1.24	21.1	885	76
37	76D4-05C01600-G0BK8-00-02	5C	16	7	0.7	1.0	18.9	0.2	19.7	1.8	1.24	22.9	1170	83
38	76D4-05C02500-G0BK8-00-02	5C	25	7	0.9	1.0	23.2	0.2	24.0	1.8	1.24	27.2	1680	100
39	76D4-05C03500-G0BK8-00-02	5C	35	7	0.9	1.0	26.1	0.2	26.9	1.9	1.32	30.3	2215	119
40	76D4-05C05000-G0BK8-00-02	5C	50	19	1.0	1.2	30.7	0.2	31.5	2.1	1.48	35.3	2960	153
41	76D4-05C07000-G0BK8-00-02	5C	70	19	1.1	1.2	35.4	0.5	37.4	2.3	1.64	41.4	4440	198
42	76D4-05C09500-G0BK8-00-02	5C	95	19	1.1	1.4	40.2	0.5	42.2	2.4	1.72	46.4	5765	232
43	76D4-05C12000-G0BK8-00-02	5C	120	19	1.2	1.4	44.6	0.5	46.6	2.6	1.88	51.2	7135	278

\*Non-Compacted conductor, all other compacted conductor

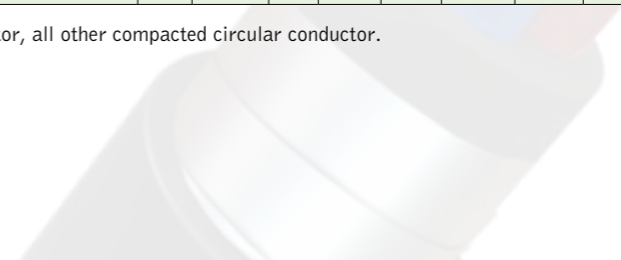


**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MES C MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-G0BK8-0A*	2C	1.5	7	0.7	1.0	8.4	0.2	9.2	1.8	1.24	12.4	230	42
2	7614-02C00250-G0BK8-0A*	2C	2.5	7	0.7	1.0	9.2	0.2	10.0	1.8	1.24	13.2	265	45
3	7614-02C00400-G0BK8-0A*	2C	4	7	0.7	1.0	10.2	0.2	11.0	1.8	1.24	14.2	315	49
4	7614-02C00600-G0BK8-0A*	2C	6	7	0.7	1.0	11.4	0.2	12.2	1.8	1.24	15.4	380	54
5	7614-02C01000-G0BK8-0A*	2C	10	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	500	61
6	76D4-02C01600-G0BK8-0A	2C	16	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	620	66
7	76D4-02C02500-G0BK8-0A	2C	25	7	0.9	1.0	17.8	0.2	18.6	1.8	1.24	21.8	860	79
8	76D4-02C03500-G0BK8-0A	2C	35	7	0.9	1.0	20.0	0.2	20.8	1.8	1.24	24.0	1090	88
9	76D4-02C05000-G0BK8-0A	2C	50	19	1.0	1.0	23.1	0.2	23.9	1.8	1.24	27.1	1390	100
10	76D4-02C07000-G0BK8-0A	2C	70	19	1.1	1.0	26.5	0.2	27.3	1.9	1.32	30.7	1855	120
11	76D4-02C09500-G0BK8-0A	2C	95	19	1.1	1.2	30.0	0.2	31.0	2.0	1.40	34.6	2420	143
12	76D4-02C12000-G0BK8-0A	2C	120	19	1.2	1.2	33.5	0.5	35.5	2.2	1.56	39.5	3370	180
13	76D4-02C15000-G0BK8-0A	2C	150	19	1.4	1.2	37.3	0.5	39.3	2.3	1.64	43.3	4020	207
14	76D4-02C18500-G0BK8-0A	2C	185	37	1.6	1.4	41.7	0.5	43.7	2.5	1.80	48.1	4880	251
15	76D4-02C24000-G0BK8-0A	2C	240	37	1.7	1.4	46.6	0.5	48.6	2.6	1.88	53.2	6130	289
16	76D4-02C30000-G0BK8-0A	2C	300	37	1.8	1.6	51.7	0.5	53.7	2.8	2.04	58.5	7560	343
17	76D4-02C40000-G0BK8-0A	2C	400	61	2.0	1.6	58.8	0.5	60.8	3.0	2.20	66.0	9360	416
18	7614-03C00150-G0BK8-0A*	3C	1.5	7	0.7	1.0	8.9	0.2	9.7	1.8	1.24	12.9	260	44
19	7614-03C00250-G0BK8-0A*	3C	2.5	7	0.7	1.0	9.8	0.2	10.6	1.8	1.24	13.8	305	47
20	7614-03C00400-G0BK8-0A*	3C	4	7	0.7	1.0	10.9	0.2	11.7	1.8	1.24	14.9	370	52
21	7614-03C00600-G0BK8-0A*	3C	6	7	0.7	1.0	12.2	0.2	13.0	1.8	1.24	16.2	460	57
22	7614-03C01000-G0BK8-0A*	3C	10	7	0.7	1.0	14.2	0.2	15.0	1.8	1.24	18.2	620	65
23	76D4-03C01600-G0BK8-0A	3C	16	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	795	70
24	76D4-03C02500-G0BK8-0A	3C	25	7	0.9	1.0	19.0	0.2	19.8	1.8	1.24	23.0	1120	84

\*Non-Compacted circular conductor, all other compacted circular conductor.





**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
25	76D4-03C03500-G0BK8-0A	3C	35	7	0.9	1.0	21.4	0.2	22.2	1.8	1.24	25.4	1390	93
26	7614-04C00150-G0BK8-0A*	4C	1.5	7	0.7	1.0	9.6	0.2	10.4	1.8	1.24	13.6	290	47
27	7614-04C00250-G0BK8-0A*	4C	2.5	7	0.7	1.0	10.7	0.2	11.5	1.8	1.24	14.7	355	51
28	7614-04C00400-G0BK8-0A*	4C	4	7	0.7	1.0	11.9	0.2	12.7	1.8	1.24	15.9	435	56
29	7614-04C00600-G0BK8-0A*	4C	6	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	545	61
30	7614-04C01000-G0BK8-0A*	4C	10	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	750	70
31	76D4-04C01600-G0BK8-0A	4C	16	7	0.7	1.0	17.2	0.2	18.0	1.8	1.24	21.2	980	77
32	7614-05C00150-G0BK8-0A-02*	5C	1.5	7	0.7	1.0	10.5	0.2	11.3	1.8	1.24	14.5	330	50
33	7614-05C00250-G0BK8-0A-02*	5C	2.5	7	0.7	1.0	11.6	0.2	12.4	1.8	1.24	15.6	400	55
34	7614-05C00400-G0BK8-0A-02*	5C	4	7	0.7	1.0	13.0	0.2	13.8	1.8	1.24	17.0	500	60
35	7614-05C00600-G0BK8-0A-02*	5C	6	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	635	66
36	7614-05C01000-G0BK8-0A-02*	5C	10	7	0.7	1.0	17.1	0.2	17.9	1.8	1.24	21.1	885	76
37	76D4-05C01600-G0BK8-0A-02	5C	16	7	0.7	1.0	18.9	0.2	19.7	1.8	1.24	22.9	1170	83
38	76D4-05C02500-G0BK8-0A-02	5C	25	7	0.9	1.0	23.2	0.2	24.0	1.8	1.24	27.2	1680	100
39	76D4-05C03500-G0BK8-0A-02	5C	35	7	0.9	1.0	26.1	0.2	26.9	1.9	1.32	30.3	2215	119
40	76D4-05C05000-G0BK8-0A-02	5C	50	19	1.0	1.2	30.7	0.2	31.5	2.1	1.48	35.3	2960	153
41	76D4-05C07000-G0BK8-0A-02	5C	70	19	1.1	1.2	35.4	0.5	37.4	2.3	1.64	41.4	4440	198
42	76D4-05C09500-G0BK8-0A-02	5C	95	19	1.1	1.4	40.2	0.5	42.2	2.4	1.72	46.4	5765	232
43	76D4-05C12000-G0BK8-0A-02	5C	120	19	1.2	1.4	44.6	0.5	46.6	2.6	1.88	51.2	7135	278

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-G0BK8-NI*	2C	1.5	7	0.7	1.0	8.4	0.2	9.2	1.8	1.24	12.4	230	42
2	7614-02C00250-G0BK8-NI*	2C	2.5	7	0.7	1.0	9.2	0.2	10.0	1.8	1.24	13.2	265	45
3	7614-02C00400-G0BK8-NI*	2C	4	7	0.7	1.0	10.2	0.2	11.0	1.8	1.24	14.2	315	49
4	7614-02C00600-G0BK8-NI*	2C	6	7	0.7	1.0	11.4	0.2	12.2	1.8	1.24	15.4	380	54
5	7614-02C01000-G0BK8-NI*	2C	10	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	500	61
6	76D4-02C01600-G0BK8-NI	2C	16	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	620	66
7	76D4-02C02500-G0BK8-NI	2C	25	7	0.9	1.0	17.8	0.2	18.6	1.8	1.24	21.8	860	79
8	76D4-02C03500-G0BK8-NI	2C	35	7	0.9	1.0	20.0	0.2	20.8	1.8	1.24	24.0	1090	88
9	76D4-02C05000-G0BK8-NI	2C	50	19	1.0	1.0	23.1	0.2	23.9	1.8	1.24	27.1	1390	100
10	76D4-02C07000-G0BK8-NI	2C	70	19	1.1	1.0	26.5	0.2	27.3	1.9	1.32	30.7	1855	120
11	76D4-02C09500-G0BK8-NI	2C	95	19	1.1	1.2	30.0	0.2	31.0	2.0	1.40	34.6	2420	143
12	76D4-02C12000-G0BK8-NI	2C	120	19	1.2	1.2	33.5	0.5	35.5	2.2	1.56	39.5	3370	180
13	76D4-02C15000-G0BK8-NI	2C	150	19	1.4	1.2	37.3	0.5	39.3	2.3	1.64	43.3	4020	207
14	76D4-02C18500-G0BK8-NI	2C	185	37	1.6	1.4	41.7	0.5	43.7	2.5	1.80	48.1	4880	251
15	76D4-02C24000-G0BK8-NI	2C	240	37	1.7	1.4	46.6	0.5	48.6	2.6	1.88	53.2	6130	289
16	76D4-02C30000-G0BK8-NI	2C	300	37	1.8	1.6	51.7	0.5	53.7	2.8	2.04	58.5	7560	343
17	76D4-02C40000-G0BK8-NI	2C	400	61	2.0	1.6	58.8	0.5	60.8	3.0	2.20	66.0	9360	416
18	7614-03C00150-G0BK8-NI*	3C	1.5	7	0.7	1.0	8.9	0.2	9.7	1.8	1.24	12.9	260	44
19	7614-03C00250-G0BK8-NI*	3C	2.5	7	0.7	1.0	9.8	0.2	10.6	1.8	1.24	13.8	305	47
20	7614-03C00400-G0BK8-NI*	3C	4	7	0.7	1.0	10.9	0.2	11.7	1.8	1.24	14.9	370	52
21	7614-03C00600-G0BK8-NI*	3C	6	7	0.7	1.0	12.2	0.2	13.0	1.8	1.24	16.2	460	57
22	7614-03C01000-G0BK8-NI*	3C	10	7	0.7	1.0	14.2	0.2	15.0	1.8	1.24	18.2	620	65
23	76D4-03C01600-G0BK8-NI	3C	16	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	795	70
24	76D4-03C02500-G0BK8-NI	3C	25	7	0.9	1.0	19.0	0.2	19.8	1.8	1.24	23.0	1120	84

\*Non-Compacted circular conductor, all other compacted circular conductor.



**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm2)	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
24	76D4-03C02500-G0BK8-NI	3C	25	7	0.9	1.0	19.0	0.2	19.8	1.8	1.24	23.0	1120	84
25	76D4-03C03500-G0BK8-NI	3C	35	7	0.9	1.0	21.4	0.2	22.2	1.8	1.24	25.4	1390	93
26	7614-04C00150-G0BK8-NI*	4C	1.5	7	0.7	1.0	9.6	0.2	10.4	1.8	1.24	13.6	290	47
27	7614-04C00250-G0BK8-NI*	4C	2.5	7	0.7	1.0	10.7	0.2	11.5	1.8	1.24	14.7	355	51
28	7614-04C00400-G0BK8-NI*	4C	4	7	0.7	1.0	11.9	0.2	12.7	1.8	1.24	15.9	435	56
29	7614-04C00600-G0BK8-NI*	4C	6	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	545	61
30	7614-04C01000-G0BK8-NI*	4C	10	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	750	70
31	76D4-04C01600-G0BK8-NI	4C	16	7	0.7	1.0	17.2	0.2	18.0	1.8	1.24	21.2	980	77
32	7614-05C00150-G0BK8-NI-02*	5C	1.5	7	0.7	1.0	10.5	0.2	11.3	1.8	1.24	14.5	330	50
33	7614-05C00250-G0BK8-NI-02*	5C	2.5	7	0.7	1.0	11.6	0.2	12.4	1.8	1.24	15.6	400	55
34	7614-05C00400-G0BK8-NI-02*	5C	4	7	0.7	1.0	13.0	0.2	13.8	1.8	1.24	17.0	500	60
35	7614-05C00600-G0BK8-NI-02*	5C	6	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	635	66
36	7614-05C01000-G0BK8-NI-02*	5C	10	7	0.7	1.0	17.1	0.2	17.9	1.8	1.24	21.1	885	76
37	76D4-05C01600-G0BK8-NI-02	5C	16	7	0.7	1.0	18.9	0.2	19.7	1.8	1.24	22.9	1170	83
38	76D4-05C02500-G0BK8-NI-02	5C	25	7	0.9	1.0	23.2	0.2	24.0	1.8	1.24	27.2	1680	100
39	76D4-05C03500-G0BK8-NI-02	5C	35	7	0.9	1.0	26.1	0.2	26.9	1.9	1.32	30.3	2215	119
40	76D4-05C05000-G0BK8-NI-02	5C	50	19	1.0	1.2	30.7	0.2	31.5	2.1	1.48	35.3	2960	153
41	76D4-05C07000-G0BK8-NI-02	5C	70	19	1.1	1.2	35.4	0.5	37.4	2.3	1.64	41.4	4440	198
42	76D4-05C09500-G0BK8-NI-02	5C	95	19	1.1	1.4	40.2	0.5	42.2	2.4	1.72	46.4	5765	232
43	76D4-05C12000-G0BK8-NI-02	5C	120	19	1.2	1.4	44.6	0.5	46.6	2.6	1.88	51.2	7135	278

\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm2)	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	76F4-03C02500-G0BK8-00	3C	25	7	0.9	1.0	16.5	0.2	17.3	1.8	1.24	20.5	1060	74
2	76F4-03C03500-G0BK8-00	3C	35	7	0.9	1.0	18.4	0.2	19.2	1.8	1.24	22.4	1370	81
3	76F4-03C05000-G0BK8-00	3C	50	19	1.0	1.0	21.2	0.2	22.0	1.9	1.32	25.4	1810	98
4	76F4-03C07000-G0BK8-00	3C	70	19	1.1	1.2	24.7	0.2	25.5	2.0	1.40	29.1	2490	119
5	76F4-03C09500-G0BK8-00	3C	95	19	1.1	1.2	27.6	0.5	29.6	2.2	1.56	33.6	3555	152
6	76F4-03C12000-G0BK8-00	3C	120	19	1.2	1.2	30.5	0.5	32.5	2.3	1.64	36.5	4350	173
7	76F4-03C15000-G0BK8-00	3C	150	19	1.4	1.4	34.4	0.5	36.4	2.4	1.72	40.6	5335	202
8	76F4-03C18500-G0BK8-00	3C	185	37	1.6	1.4	38.0	0.5	40.0	2.6	1.88	44.6	6440	240
9	76F4-03C24000-G0BK8-00	3C	240	37	1.7	1.6	42.7	0.5	44.7	2.8	2.04	49.5	8260	288
10	76F4-03C30000-G0BK8-00	3C	300	37	1.8	1.6	46.9	0.5	48.9	2.9	2.12	53.9	10225	325
11	76F4-03C40000-G0BK8-00	3C	400	61	2.0	1.6	53.3	0.5	55.3	3.2	2.36	60.9	12755	406
12	76F4-04C02500-G0BK8-00	4C	25	7	0.9	1.0	19.4	0.2	20.2	1.8	1.24	23.4	1360	85
13	76F4-04C03500-G0BK8-00	4C	35	7	0.9	1.0	21.8	0.2	22.6	1.8	1.24	25.8	1770	95
14	76F4-04C05000-G0BK8-00	4C	50	19	1.0	1.0	25.3	0.2	26.1	2.0	1.40	29.7	2375	122
15	76F4-04C07000-G0BK8-00	4C	70	19	1.1	1.2	29.5	0.5	31.5	2.1	1.48	35.3	3600	153
16	76F4-04C09500-G0BK8-00	4C	95	19	1.1	1.2	33.0	0.5	35.0	2.3	1.64	39.0	4605	186
17	76F4-04C12000-G0BK8-00	4C	120	19	1.2	1.4	37.0	0.5	39.0	2.4	1.72	43.2	5740	215
18	76F4-04C15000-G0BK8-00	4C	150	19	1.4	1.4	41.3	0.5	43.3	2.6	1.88	47.9	7000	259
19	76F4-04C18500-G0BK8-00	4C	185	37	1.6	1.4	45.7	0.5	47.7	2.7	1.96	52.5	8465	296
20	76F4-04C24000-G0BK8-00	4C	240	37	1.7	1.6	51.4	0.5	53.4	3.0	2.20	58.6	10885	367
21	76F4-04C30000-G0BK8-00	4C	300	37	1.8	1.6	56.6	0.5	58.6	3.1	2.28	64.0	13490	415
22	76F4-04C40000-G0BK8-00	4C	400	61	2.0	1.8	64.9	0.5	66.9	3.5	2.60	72.9	16940	534

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76F4-03C02500-G0BK8-0A	3C	25	7	0.9	1.0	16.5	0.2	17.3	1.8	1.24	20.5	1060	74
2	76F4-03C03500-G0BK8-0A	3C	35	7	0.9	1.0	18.4	0.2	19.2	1.8	1.24	22.4	1370	81
3	76F4-03C05000-G0BK8-0A	3C	50	19	1.0	1.0	21.2	0.2	22.0	1.9	1.32	25.4	1810	98
4	76F4-03C07000-G0BK8-0A	3C	70	19	1.1	1.2	24.7	0.2	25.5	2.0	1.40	29.1	2490	119
5	76F4-03C09500-G0BK8-0A	3C	95	19	1.1	1.2	27.6	0.5	29.6	2.2	1.56	33.6	3555	152
6	76F4-03C12000-G0BK8-0A	3C	120	19	1.2	1.2	30.5	0.5	32.5	2.3	1.64	36.5	4350	173
7	76F4-03C15000-G0BK8-0A	3C	150	19	1.4	1.4	34.4	0.5	36.4	2.4	1.72	40.6	5335	202
8	76F4-03C18500-G0BK8-0A	3C	185	37	1.6	1.4	38.0	0.5	40.0	2.6	1.88	44.6	6440	240
9	76F4-03C24000-G0BK8-0A	3C	240	37	1.7	1.6	42.7	0.5	44.7	2.8	2.04	49.5	8260	288
10	76F4-03C30000-G0BK8-0A	3C	300	37	1.8	1.6	46.9	0.5	48.9	2.9	2.12	53.9	10225	325
11	76F4-03C40000-G0BK8-0A	3C	400	61	2.0	1.6	53.3	0.5	55.3	3.2	2.36	60.9	12755	406
12	76F4-04C02500-G0BK8-0A	4C	25	7	0.9	1.0	19.4	0.2	20.2	1.8	1.24	23.4	1360	85
13	76F4-04C03500-G0BK8-0A	4C	35	7	0.9	1.0	21.8	0.2	22.6	1.8	1.24	25.8	1770	95
14	76F4-04C05000-G0BK8-0A	4C	50	19	1.0	1.0	25.3	0.2	26.1	2.0	1.40	29.7	2375	122
15	76F4-04C07000-G0BK8-0A	4C	70	19	1.1	1.2	29.5	0.5	31.5	2.1	1.48	35.3	3600	153
16	76F4-04C09500-G0BK8-0A	4C	95	19	1.1	1.2	33.0	0.5	35.0	2.3	1.64	39.0	4605	186
17	76F4-04C12000-G0BK8-0A	4C	120	19	1.2	1.4	37.0	0.5	39.0	2.4	1.72	43.2	5740	215
18	76F4-04C15000-G0BK8-0A	4C	150	19	1.4	1.4	41.3	0.5	43.3	2.6	1.88	47.9	7000	259
19	76F4-04C18500-G0BK8-0A	4C	185	37	1.6	1.4	45.7	0.5	47.7	2.7	1.96	52.5	8465	296
20	76F4-04C24000-G0BK8-0A	4C	240	37	1.7	1.6	51.4	0.5	53.4	3.0	2.20	58.6	10885	367
21	76F4-04C30000-G0BK8-0A	4C	300	37	1.8	1.6	56.6	0.5	58.6	3.1	2.28	64.0	13490	415
22	76F4-04C40000-G0BK8-0A	4C	400	61	2.0	1.8	64.9	0.5	66.9	3.5	2.60	72.9	16940	534

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76F4-03C02500-G0BK8-NI	3C	25	7	0.9	1.0	16.5	0.2	17.3	1.8	1.24	20.5	1060	74
2	76F4-03C03500-G0BK8-NI	3C	35	7	0.9	1.0	18.4	0.2	19.2	1.8	1.24	22.4	1370	81
3	76F4-03C05000-G0BK8-NI	3C	50	19	1.0	1.0	21.2	0.2	22.0	1.9	1.32	25.4	1810	98
4	76F4-03C07000-G0BK8-NI	3C	70	19	1.1	1.2	24.7	0.2	25.5	2.0	1.40	29.1	2490	119
5	76F4-03C09500-G0BK8-NI	3C	95	19	1.1	1.2	27.6	0.5	29.6	2.2	1.56	33.6	3555	152
6	76F4-03C12000-G0BK8-NI	3C	120	19	1.2	1.2	30.5	0.5	32.5	2.3	1.64	36.5	4350	173
7	76F4-03C15000-G0BK8-NI	3C	150	19	1.4	1.4	34.4	0.5	36.4	2.4	1.72	40.6	5335	202
8	76F4-03C18500-G0BK8-NI	3C	185	37	1.6	1.4	38.0	0.5	40.0	2.6	1.88	44.6	6440	240
9	76F4-03C24000-G0BK8-NI	3C	240	37	1.7	1.6	42.7	0.5	44.7	2.8	2.04	49.5	8260	288
10	76F4-03C30000-G0BK8-NI	3C	300	37	1.8	1.6	46.9	0.5	48.9	2.9	2.12	53.9	10225	325
11	76F4-03C40000-G0BK8-NI	3C	400	61	2.0	1.6	53.3	0.5	55.3	3.2	2.36	60.9	12755	406
12	76F4-04C02500-G0BK8-NI	4C	25	7	0.9	1.0	19.4	0.2	20.2	1.8	1.24	23.4	1360	85
13	76F4-04C03500-G0BK8-NI	4C	35	7	0.9	1.0	21.8	0.2	22.6	1.8	1.24	25.8	1770	95
14	76F4-04C05000-G0BK8-NI	4C	50	19	1.0	1.0	25.3	0.2	26.1	2.0	1.40	29.7	2375	122
15	76F4-04C07000-G0BK8-NI	4C	70	19	1.1	1.2	29.5	0.5	31.5	2.1	1.48	35.3	3600	153
16	76F4-04C09500-G0BK8-NI	4C	95	19	1.1	1.2	33.0	0.5	35.0	2.3	1.64	39.0	4605	186
17	76F4-04C12000-G0BK8-NI	4C	120	19	1.2	1.4	37.0	0.5	39.0	2.4	1.72	43.2	5740	215
18	76F4-04C15000-G0BK8-NI	4C	150	19	1.4	1.4	41.3	0.5	43.3	2.6	1.88	47.9	7000	259
19	76F4-04C18500-G0BK8-NI	4C	185	37	1.6	1.4	45.7	0.5	47.7	2.7	1.96	52.5	8465	296
20	76F4-04C24000-G0BK8-NI	4C	240	37	1.7	1.6	51.4	0.5	53.4	3.0	2.20	58.6	10885	367
21	76F4-04C30000-G0BK8-NI	4C	300	37	1.8	1.6	56.6	0.5	58.6	3.1	2.28	64.0	13490	415
22	76F4-04C40000-G0BK8-NI	4C	400	61	2.0	1.8	64.9	0.5	66.9	3.5	2.60	72.9	16940	534

## LV POWER, SINGLE CORE, ARMoured CABLE

CU/XLPE/LSZH/AWA/LSZH

SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	1C: Black
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1 in Black Color.
Armor	A single layer of Aluminium wire armor is applied over the inner sheath.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/AWA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76D4-01C02500-A0BK8-H0	1C	25	7	0.9	1.0	9.9	1.6	13.1	1.4	0.92	15.7	480	44
2	76D4-01C03500-A0BK8-H0	1C	35	7	0.9	1.0	11.0	1.6	14.2	1.4	0.92	16.8	604	47
3	76D4-01C05000-A0BK8-H0	1C	50	19	1.0	1.0	12.5	1.6	15.7	1.5	1.00	18.5	760	56
4	76D4-01C07000-A0BK8-H0	1C	70	19	1.1	1.0	14.3	1.6	17.5	1.5	1.00	20.3	994	62
5	76D4-01C09500-A0BK8-H0	1C	95	19	1.1	1.0	15.9	1.6	19.1	1.6	1.08	22.1	1250	72
6	76D4-01C12000-A0BK8-H0	1C	120	19	1.2	1.0	17.5	1.6	20.7	1.7	1.16	23.7	1522	82
7	76D4-01C15000-A0BK8-H0	1C	150	19	1.4	1.0	19.5	1.6	22.7	1.7	1.16	25.7	1830	90
8	76D4-01C18500-A0BK8-H0	1C	185	37	1.6	1.0	21.5	1.6	24.7	1.8	1.24	27.9	2205	103
9	76D4-01C24000-A0BK8-H0	1C	240	37	1.7	1.0	23.9	1.6	27.1	1.9	1.32	30.5	2795	119
10	76D4-01C30000-A0BK8-H0	1C	300	37	1.8	1.0	26.2	1.6	29.4	2.0	1.40	33.0	3400	136
11	76D4-01C40000-A0BK8-H0	1C	400	61	2.0	1.2	30.2	2.0	34.2	2.1	1.48	38.0	4400	166
12	76D4-01C50000-A0BK8-H0	1C	500	61	2.2	1.2	33.4	2.0	37.4	2.2	1.56	41.4	5495	190
13	76D4-01C63000-A0BK8-H0	1C	630	61	2.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	6950	218
14	76D4-01C80000-A0BK8-H0	1C	800	61	2.6	1.4	41.9	2.5	46.9	2.5	1.80	51.5	9125	269
15	76D4-1C100000-A0BK8-H0	1C	1000	61	2.8	1.4	46.9	2.5	51.9	2.7	1.96	56.9	11325	322
16	7614-01C80000-A0BK8-H0*	1C	800	91	2.6	1.4	45.3	2.5	50.3	2.5	1.80	54.9	9275	288
17	7614-1C100000-A0BK8-H0*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11475	341
18	7614-1C100000-A0BK8-H0*	1C	1000	91	2.8	1.4	50.2	2.5	55.2	2.7	1.96	60.2	11475	341

\* Non-Compacted circular conductor, other compacted circular conductor

## LV POWER, MULTI CORE, ARMoured CABLE

CU/XLPE/LSZH/GSWA/LSZH  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1 in Black Color.
Armor	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/GSWA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

Cables with Two/Three/Four and half core is available on request. The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-W0BK8-H0*	2C	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	320	46
2	7614-02C00250-W0BK8-H0*	2C	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	360	49
3	7614-02C00400-W0BK8-H0*	2C	4	7	0.7	1.0	10.2	0.9	12.0	1.8	1.24	15.2	415	53
4	7614-02C00600-W0BK8-H0*	2C	6	7	0.7	1.0	11.4	0.9	13.2	1.8	1.24	16.4	490	58
5	7614-02C01000-W0BK8-H0*	2C	10	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	720	68
6	76D4-02C01600-W0BK8-H0	2C	16	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	865	73
7	76D4-02C02500-W0BK8-H0	2C	25	7	0.9	1.0	17.8	1.6	21.0	1.8	1.24	24.2	1270	89
8	76D4-02C03500-W0BK8-H0	2C	35	7	0.9	1.0	20.0	1.6	23.2	1.8	1.24	26.4	1550	97
9	76D4-02C05000-W0BK8-H0	2C	50	19	1.0	1.0	23.1	1.6	26.3	1.8	1.24	29.5	1925	110
10	76D4-02C07000-W0BK8-H0	2C	70	19	1.1	1.0	26.5	1.6	29.7	2.0	1.40	33.3	2480	138
11	76D4-02C09500-W0BK8-H0	2C	95	19	1.1	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3370	166
12	76D4-02C12000-W0BK8-H0	2C	120	19	1.2	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4015	190
13	76D4-02C15000-W0BK8-H0	2C	150	19	1.4	1.2	37.3	2.0	41.3	2.3	1.64	45.5	4770	218
14	76D4-02C18500-W0BK8-H0	2C	185	37	1.6	1.4	41.7	2.5	46.7	2.5	1.80	51.3	6110	268
15	76D4-02C24000-W0BK8-H0	2C	240	37	1.7	1.4	46.6	2.5	51.6	2.7	1.96	56.6	7500	320
16	76D4-02C30000-W0BK8-H0	2C	300	37	1.8	1.6	51.7	2.5	56.7	2.8	2.04	61.9	9090	364
17	76D4-02C40000-W0BK8-H0	2C	400	61	2.0	1.6	58.8	2.5	63.8	3.1	2.28	69.6	11125	453
18	7614-03C00150-W0BK8-H0*	3C	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	350	48
19	7614-03C00250-W0BK8-H0*	3C	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	405	51
20	7614-03C00400-W0BK8-H0*	3C	4	7	0.7	1.0	10.9	0.9	12.7	1.8	1.24	15.9	480	56
21	7614-03C00600-W0BK8-H0*	3C	6	7	0.7	1.0	12.2	0.9	14.0	1.8	1.24	17.2	580	61
22	7614-03C01000-W0BK8-H0*	3C	10	7	0.7	1.0	14.2	1.25	16.7	1.8	1.24	19.9	860	72
23	76D4-03C01600-W0BK8-H0	3C	16	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1050	77
24	76D4-03C02500-W0BK8-H0	3C	25	7	0.9	1.0	19.0	1.6	22.2	1.8	1.24	25.4	1555	93

\*Non-Compacted circular conductor, all other compacted circular conductor.



**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
25	76D4-03C03500-W0BK8-H0	3C	35	7	0.9	1.0	21.4	1.6	24.6	1.8	1.24	27.8	1945	103
26	7614-04C00150-W0BK8-H0*	4C	1.5	7	0.7	1.0	9.6	0.9	11.4	1.8	1.24	14.6	385	51
27	7614-04C00250-W0BK8-H0*	4C	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	460	55
28	7614-04C00400-W0BK8-H0*	4C	4	7	0.7	1.0	11.9	0.9	13.7	1.8	1.24	16.9	550	60
29	7614-04C00600-W0BK8-H0*	4C	6	7	0.7	1.0	13.3	1.25	15.8	1.8	1.24	19.0	770	68
30	7614-04C01000-W0BK8-H0*	4C	10	7	0.7	1.0	15.6	1.25	18.1	1.8	1.24	21.3	1010	77
31	76D4-04C01600-W0BK8-H0	4C	16	7	0.7	1.0	17.2	1.6	20.4	1.8	1.24	23.6	1380	86
32	7614-05C00150-W0BK8-H0-02*	5C	1.5	7	0.7	1.0	10.5	0.9	12.3	1.8	1.24	15.5	435	54
33	7614-05C00250-W0BK8-H0-02*	5C	2.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	16.6	510	59
34	7614-05C00400-W0BK8-H0-02*	5C	4	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	18.7	715	67
35	7614-05C00600-W0BK8-H0-02*	5C	6	7	0.7	1.0	14.6	1.25	17.1	1.8	1.24	20.3	880	73
36	7614-05C01000-W0BK8-H0-02*	5C	10	7	0.7	1.0	17.1	1.25	19.6	1.8	1.24	22.8	1170	83
37	76D4-05C01600-W0BK8-H0-02	5C	16	7	0.7	1.0	18.9	1.6	22.1	1.8	1.24	25.3	1605	93
38	76D4-05C02500-W0BK8-H0-02	5C	25	7	0.9	1.0	23.2	1.6	26.4	1.8	1.24	29.6	2220	110
39	76D4-05C03500-W0BK8-H0-02	5C	35	7	0.9	1.0	26.1	1.6	29.3	1.9	1.32	32.7	2815	129
40	76D4-05C05000-W0BK8-H0-02	5C	50	19	1.0	1.2	30.7	2.0	34.7	2.1	1.48	38.5	3890	168
41	76D4-05C07000-W0BK8-H0-02	5C	70	19	1.1	1.2	35.4	2.0	39.4	2.3	1.64	43.6	5150	209
42	76D4-05C09500-W0BK8-H0-02	5C	95	19	1.1	1.4	40.2	2.5	45.2	2.5	1.80	49.8	6960	260
43	76D4-05C12000-W0BK8-H0-02	5C	120	19	1.2	1.4	44.6	2.5	49.6	2.6	1.88	54.4	8435	296

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76F4-03C02500-W0BK8-H0	3C	25	7	0.9	1.0	16.5	1.6	19.7	1.8	1.24	22.9	1450	83
2	76F4-03C03500-W0BK8-H0	3C	35	7	0.9	1.0	18.4	1.6	21.6	1.8	1.24	24.8	1795	91
3	76F4-03C05000-W0BK8-H0	3C	50	19	1.0	1.0	21.2	1.6	24.4	1.9	1.32	27.8	2295	108
4	76F4-03C07000-W0BK8-H0	3C	70	19	1.1	1.2	25.1	2.0	28.7	2.0	1.40	32.3	3260	133
5	76F4-03C09500-W0BK8-H0	3C	95	19	1.1	1.2	27.6	2.0	31.6	2.2	1.56	35.6	4100	162
6	76F4-03C12000-W0BK8-H0	3C	120	19	1.2	1.2	30.5	2.0	34.5	2.3	1.64	38.7	4960	184
7	76F4-03C15000-W0BK8-H0	3C	150	19	1.4	1.4	35.1	2.5	39.6	2.5	1.80	44.0	6390	228
8	76F4-03C18500-W0BK8-H0	3C	185	37	1.6	1.4	38.0	2.5	43.0	2.6	1.88	47.8	7575	258
9	76F4-03C24000-W0BK8-H0	3C	240	37	1.7	1.6	42.7	2.5	47.7	2.8	2.04	52.9	9535	308
10	76F4-03C30000-W0BK8-H0	3C	300	37	1.8	1.6	46.9	2.5	51.9	3.0	2.20	57.5	11660	360
11	76F4-03C40000-W0BK8-H0	3C	400	61	2.0	1.6	53.3	2.5	58.3	3.2	2.36	64.3	14340	430
12	76F4-04C02500-W0BK8-H0	4C	25	7	0.9	1.0	19.4	1.6	22.6	1.8	1.24	25.8	1810	95
13	76F4-04C03500-W0BK8-H0	4C	35	7	0.9	1.0	21.8	1.6	25.0	1.9	1.32	28.4	2280	111
14	76F4-04C05000-W0BK8-H0	4C	50	19	1.0	1.0	25.0	1.6	28.2	2.0	1.40	31.9	2950	131
15	76F4-04C07000-W0BK8-H0	4C	70	19	1.1	1.2	29.5	2.0	33.5	2.2	1.56	37.5	4180	171
16	76F4-04C09500-W0BK8-H0	4C	95	19	1.1	1.2	33.0	2.0	37.0	2.3	1.64	41.2	5280	197
17	76F4-04C12000-W0BK8-H0	4C	120	19	1.2	1.4	37.0	2.5	42.0	2.5	1.80	46.6	6865	242
18	76F4-04C15000-W0BK8-H0	4C	150	19	1.4	1.4	41.3	2.5	46.3	2.6	1.88	51.1	8190	277
19	76F4-04C18500-W0BK8-H0	4C	185	37	1.6	1.4	45.7	2.5	50.7	2.8	2.04	55.9	9815	327
20	76F4-04C24000-W0BK8-H0	4C	240	37	1.7	1.6	51.4	2.5	56.4	3.0	2.20	62.0	12415	389
21	76F4-04C30000-W0BK8-H0	4C	300	37	1.8	1.6	56.6	2.5	61.6	3.2	2.36	67.6	15205	453
22	76F4-04C40000-W0BK8-H0	4C	400	61	2.0	1.8	64.8	3.15	71.1	3.5	2.60	77.8	19690	572

\* Non-Compacted circular conductor, all other compacted circular conductor.

# CONTROL, MULTI CORE, ARMoured CABLE

## CU/XLPE/LSZH/GSWA/LSZH

### SPECIFICATION: IEC 60502-1



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and switching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

## CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C & Above: Black cores with Number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1 in Black Color.
Armor	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/GSWA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7614-02C00150-W0BK8-H0	2	1.5	7	0.7	1.0	8.4	0.9	10.2	1.8	1.24	13.4	320	46
2	7614-03C00150-W0BK8-H0	3	1.5	7	0.7	1.0	8.9	0.9	10.7	1.8	1.24	13.9	350	48
3	7614-04C00150-W0BK8-H0	4	1.5	7	0.7	1.0	9.7	0.9	11.5	1.8	1.24	14.7	380	51
4	7614-05C00150-W0BK8-H0	5	1.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	430	55
5	7614-06C00150-W0BK8-H0	6	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	505	60
6	7614-07C00150-W0BK8-H0	7	1.5	7	0.7	1.0	11.6	0.9	13.4	1.8	1.24	17.0	520	60
7	7614-08C00150-W0BK8-H0	8	1.5	7	0.7	1.0	13.0	1.25	15.5	1.8	1.24	19.1	674	68
8	7614-10C00150-W0BK8-H0	10	1.5	7	0.7	1.0	14.7	1.25	17.2	1.8	1.24	20.8	779	75
9	7614-12C00150-W0BK8-H0	12	1.5	7	0.7	1.0	15.2	1.25	17.7	1.8	1.24	21.3	870	77
10	7614-14C00150-W0BK8-H0	14	1.5	7	0.7	1.0	16.0	1.25	18.5	1.8	1.24	22.1	905	80
11	7614-15C00150-W0BK8-H0	15	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	960	84
12	7614-16C00150-W0BK8-H0	16	1.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	980	84
13	7614-18C00150-W0BK8-H0	18	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1055	87
14	7614-19C00150-W0BK8-H0	19	1.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1070	87
15	7614-20C00150-W0BK8-H0	20	1.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1260	94
16	7614-22C00150-W0BK8-H0	22	1.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1345	99
17	7614-24C00150-W0BK8-H0	24	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1445	102
18	7614-25C00150-W0BK8-H0	25	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1460	102
19	7614-26C00150-W0BK8-H0	26	1.5	7	0.7	1.0	20.9	1.6	24.1	1.8	1.24	27.7	1480	102
20	7614-30C00150-W0BK8-H0	30	1.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1615	108
21	7614-32C00150-W0BK8-H0	32	1.5	7	0.7	1.0	23.0	1.6	26.2	1.8	1.24	29.8	1686	111
22	7614-35C00150-W0BK8-H0	35	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1770	115
23	7614-36C00150-W0BK8-H0	36	1.5	7	0.7	1.0	24.0	1.6	27.2	1.8	1.24	30.8	1800	115
24	7614-40C00150-W0BK8-H0	40	1.5	7	0.7	1.0	25.0	1.6	28.2	1.9	1.32	32.0	1930	126
25	7614-50C00150-W0BK8-H0	50	1.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2290	146

**TABLE: IEC 60332-1-2 / IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
26	7614-61C00150-W0BK8-H0	61	1.5	7	0.7	1.2	30.6	2.0	34.6	2.1	1.48	38.8	2910	169
27	7614-02C00250-W0BK8-H0	2	2.5	7	0.7	1.0	9.2	0.9	11.0	1.8	1.24	14.2	360	49
28	7614-03C00250-W0BK8-H0	3	2.5	7	0.7	1.0	9.8	0.9	11.6	1.8	1.24	14.8	400	51
29	7614-04C00250-W0BK8-H0	4	2.5	7	0.7	1.0	10.7	0.9	12.5	1.8	1.24	15.7	455	55
30	7614-05C00250-W0BK8-H0	5	2.5	7	0.7	1.0	11.8	0.9	13.6	1.8	1.24	16.8	510	59
31	7614-06C00250-W0BK8-H0	6	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	690	68
32	7614-07C00250-W0BK8-H0	7	2.5	7	0.7	1.0	12.9	1.25	15.4	1.8	1.24	19.0	720	68
33	7614-08C00250-W0BK8-H0	8	2.5	7	0.7	1.0	14.5	1.25	17.0	1.8	1.24	20.6	815	74
34	7614-10C00250-W0BK8-H0	10	2.5	7	0.7	1.0	16.4	1.25	18.9	1.8	1.24	22.5	940	82
35	7614-12C00250-W0BK8-H0	12	2.5	7	0.7	1.0	16.9	1.25	19.4	1.8	1.24	23.0	1025	84
36	7614-14C00250-W0BK8-H0	14	2.5	7	0.7	1.0	17.8	1.25	20.3	1.8	1.24	23.9	1105	87
37	7614-15C00250-W0BK8-H0	15	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1305	94
38	7614-16C00250-W0BK8-H0	16	2.5	7	0.7	1.0	18.8	1.6	22.0	1.8	1.24	25.6	1330	94
39	7614-18C00250-W0BK8-H0	18	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1440	99
40	7614-19C00250-W0BK8-H0	19	2.5	7	0.7	1.0	19.9	1.6	23.1	1.8	1.24	26.7	1465	99
41	7614-20C00250-W0BK8-H0	20	2.5	7	0.7	1.0	21.1	1.6	24.3	1.8	1.24	27.9	1557	103
42	7614-22C00250-W0BK8-H0	22	2.5	7	0.7	1.0	22.2	1.6	25.4	1.8	1.24	29.0	1654	108
43	7614-24C00250-W0BK8-H0	24	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1770	112
44	7614-25C00250-W0BK8-H0	25	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1800	112
45	7614-26C00250-W0BK8-H0	26	2.5	7	0.7	1.0	23.4	1.6	26.6	1.8	1.24	30.2	1830	112
46	7614-30C00250-W0BK8-H0	30	2.5	7	0.7	1.0	24.8	1.6	28.0	1.9	1.32	31.8	2030	125
47	7614-32C00250-W0BK8-H0	32	2.5	7	0.7	1.0	25.9	1.6	29.1	1.9	1.32	32.9	2130	129
48	7614-35C00250-W0BK8-H0	35	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2250	134
49	7614-36C00250-W0BK8-H0	36	2.5	7	0.7	1.0	26.9	1.6	30.1	1.9	1.32	33.9	2285	134
50	7614-40C00250-W0BK8-H0	40	2.5	7	0.7	1.0	28.1	1.6	31.3	2.0	1.40	35.3	2460	146
51	7614-50C00250-W0BK8-H0	50	2.5	7	0.7	1.2	32.1	2.0	36.1	2.1	1.48	40.3	3240	176
52	7614-61C00250-W0BK8-H0	61	2.5	7	0.7	1.2	34.3	2.0	38.3	2.2	1.56	42.7	3700	196

**LV POWER, MULTI CORE, STEEL TAPE ARMoured CABLE**  
CU/XLPE/LSZH/DSTA/LSZH  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground location under mechanical stresses in the power and witching station, local distribution system, industrial plant and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

**CONSTRUCTION**

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black Color.
Steel Tape Armor	Double galvanized steel tape applied helically over the inner sheath as per IEC-60502-1.
Outer Sheath**	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/DSTA/LSZH NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1*** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

\*\*\* Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

Cables with Two/Three/Four and half core is available on request. The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7614-02C00150-G0BK8-H0*	2C	1.5	7	0.7	1.0	8.4	0.2	9.2	1.8	1.24	12.4	225	42
2	7614-02C00250-G0BK8-H0*	2C	2.5	7	0.7	1.0	9.2	0.2	10.0	1.8	1.24	13.2	260	45
3	7614-02C00400-G0BK8-H0*	2C	4	7	0.7	1.0	10.2	0.2	11.0	1.8	1.24	14.2	310	49
4	7614-02C00600-G0BK8-H0*	2C	6	7	0.7	1.0	11.4	0.2	12.2	1.8	1.24	15.4	375	54
5	7614-02C01000-G0BK8-H0*	2C	10	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	490	61
6	76D4-02C01600-G0BK8-H0	2C	16	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	615	66
7	76D4-02C02500-G0BK8-H0	2C	25	7	0.9	1.0	17.8	0.2	18.6	1.8	1.24	21.8	850	79
8	76D4-02C03500-G0BK8-H0	2C	35	7	0.9	1.0	20.0	0.2	20.8	1.8	1.24	24.0	1080	88
9	76D4-02C05000-G0BK8-H0	2C	50	19	1.0	1.0	23.1	0.2	23.9	1.8	1.24	27.1	1380	100
10	76D4-02C07000-G0BK8-H0	2C	70	19	1.1	1.0	26.5	0.2	27.3	1.9	1.32	30.7	1840	120
11	76D4-02C09500-G0BK8-H0	2C	95	19	1.1	1.2	30.0	0.2	31.0	2.0	1.40	34.6	2405	143
12	76D4-02C12000-G0BK8-H0	2C	120	19	1.2	1.2	33.5	0.5	35.5	2.2	1.56	39.5	3350	180
13	76D4-02C15000-G0BK8-H0	2C	150	19	1.4	1.2	37.3	0.5	39.3	2.3	1.64	43.3	4000	207
14	76D4-02C18500-G0BK8-H0	2C	185	37	1.6	1.4	41.7	0.5	43.7	2.5	1.80	48.1	4855	251
15	76D4-02C24000-G0BK8-H0	2C	240	37	1.7	1.4	46.6	0.5	48.6	2.6	1.88	53.2	6105	289
16	76D4-02C30000-G0BK8-H0	2C	300	37	1.8	1.6	51.7	0.5	53.7	2.8	2.04	58.5	7530	343
17	76D4-02C40000-G0BK8-H0	2C	400	61	2.0	1.6	58.8	0.5	60.8	3.0	2.20	66.0	9320	416
18	7614-03C00150-G0BK8-H0*	3C	1.5	7	0.7	1.0	8.9	0.2	9.7	1.8	1.24	12.9	255	44
19	7614-03C00250-G0BK8-H0*	3C	2.5	7	0.7	1.0	9.8	0.2	10.6	1.8	1.24	13.8	300	47
20	7614-03C00400-G0BK8-H0*	3C	4	7	0.7	1.0	10.9	0.2	11.7	1.8	1.24	14.9	365	52
21	7614-03C00600-G0BK8-H0*	3C	6	7	0.7	1.0	12.2	0.2	13.0	1.8	1.24	16.2	455	57
22	7614-03C01000-G0BK8-H0*	3C	10	7	0.7	1.0	14.2	0.2	15.0	1.8	1.24	18.2	615	65
23	76D4-03C01600-G0BK8-H0	3C	16	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	790	70
24	76D4-03C02500-G0BK8-H0	3C	25	7	0.9	1.0	19.0	0.2	19.8	1.8	1.24	23.0	1110	84
25	76D4-03C03500-G0BK8-H0	3C	35	7	0.9	1.0	21.4	0.2	22.2	1.8	1.24	25.4	1450	93

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
26	7614-04C00150-G0BK8-H0*	4C	1.5	7	0.7	1.0	9.6	0.2	10.4	1.8	1.24	13.6	285	47
27	7614-04C00250-G0BK8-H0*	4C	2.5	7	0.7	1.0	10.7	0.2	11.5	1.8	1.24	14.7	350	51
28	7614-04C00400-G0BK8-H0*	4C	4	7	0.7	1.0	11.9	0.2	12.7	1.8	1.24	15.9	430	56
29	7614-04C00600-G0BK8-H0*	4C	6	7	0.7	1.0	13.3	0.2	14.1	1.8	1.24	17.3	540	61
30	7614-04C01000-G0BK8-H0*	4C	10	7	0.7	1.0	15.6	0.2	16.4	1.8	1.24	19.6	745	70
31	76D4-04C01600-G0BK8-H0	4C	16	7	0.7	1.0	17.2	0.2	18.0	1.8	1.24	21.2	975	77
32	7614-05C00150-G0BK8-H0-02*	5C	1.5	7	0.7	1.0	10.5	0.2	11.3	1.8	1.24	14.5	325	50
33	7614-05C00250-G0BK8-H0-02*	5C	2.5	7	0.7	1.0	11.6	0.2	12.4	1.8	1.24	15.6	395	55
34	7614-05C00400-G0BK8-H0-02*	5C	4	7	0.7	1.0	13.0	0.2	13.8	1.8	1.24	17.0	495	60
35	7614-05C00600-G0BK8-H0-02*	5C	6	7	0.7	1.0	14.6	0.2	15.4	1.8	1.24	18.6	630	66
36	7614-05C01000-G0BK8-H0-02*	5C	10	7	0.7	1.0	17.1	0.2	17.9	1.8	1.24	21.1	880	76
37	76D4-05C01600-G0BK8-H0-02	5C	16	7	0.7	1.0	18.9	0.2	19.7	1.8	1.24	22.9	1160	83
38	76D4-05C02500-G0BK8-H0-02	5C	25	7	0.9	1.0	23.2	0.2	24.0	1.8	1.24	27.2	1670	100
39	76D4-05C03500-G0BK8-H0-02	5C	35	7	0.9	1.0	26.1	0.2	26.9	1.9	1.32	30.3	2205	119
40	76D4-05C05000-G0BK8-H0-02	5C	50	19	1.0	1.2	30.7	0.2	31.5	2.1	1.48	35.3	2945	153
41	76D4-05C07000-G0BK8-H0-02	5C	70	19	1.1	1.2	35.4	0.5	37.4	2.3	1.64	41.4	4420	198
42	76D4-05C09500-G0BK8-H0-02	5C	95	19	1.1	1.4	40.2	0.5	42.2	2.4	1.72	46.4	5740	232
43	76D4-05C12000-G0BK8-H0-02	5C	120	19	1.2	1.4	44.6	0.5	46.6	2.6	1.88	51.2	7110	278

\*Non-Compacted conductor, all other compacted conductor





**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	76F4-03C02500-G0BK8-H0	3C	25	7	0.9	1.0	16.5	0.2	17.3	1.8	1.24	20.5	1055	74
2	76F4-03C03500-G0BK8-H0	3C	35	7	0.9	1.0	18.4	0.2	19.2	1.8	1.24	22.4	1365	81
3	76F4-03C05000-G0BK8-H0	3C	50	19	1.0	1.0	21.2	0.2	22.0	1.9	1.32	25.4	1800	98
4	76F4-03C07000-G0BK8-H0	3C	70	19	1.1	1.2	24.7	0.2	25.5	2.0	1.40	29.1	2480	119
5	76F4-03C09500-G0BK8-H0	3C	95	19	1.1	1.2	27.6	0.5	29.6	2.2	1.56	33.6	3540	152
6	76F4-03C12000-G0BK8-H0	3C	120	19	1.2	1.2	30.5	0.5	32.5	2.3	1.64	36.5	4330	173
7	76F4-03C15000-G0BK8-H0	3C	150	19	1.4	1.4	34.4	0.5	36.4	2.4	1.72	40.6	5315	202
8	76F4-03C18500-G0BK8-H0	3C	185	37	1.6	1.4	38.0	0.5	40.0	2.6	1.88	44.6	6415	240
9	76F4-03C24000-G0BK8-H0	3C	240	37	1.7	1.6	42.7	0.5	44.7	2.8	2.04	49.5	8230	288
10	76F4-03C30000-G0BK8-H0	3C	300	37	1.8	1.6	46.9	0.5	48.9	2.9	2.12	53.9	10190	325
11	76F4-03C40000-G0BK8-H0	3C	400	61	2.0	1.6	53.3	0.5	55.3	3.2	2.36	60.9	12720	406
12	76F4-04C02500-G0BK8-H0	4C	25	7	0.9	1.0	19.4	0.2	20.2	1.8	1.24	23.4	1350	85
13	76F4-04C03500-G0BK8-H0	4C	35	7	0.9	1.0	21.8	0.2	22.6	1.8	1.24	25.8	1760	95
14	76F4-04C05000-G0BK8-H0	4C	50	19	1.0	1.0	25.3	0.2	26.1	2.0	1.40	29.7	2360	122
15	76F4-04C07000-G0BK8-H0	4C	70	19	1.1	1.2	29.5	0.5	31.5	2.1	1.48	35.3	3580	153
16	76F4-04C09500-G0BK8-H0	4C	95	19	1.1	1.2	33.0	0.5	35.0	2.3	1.64	39.0	4590	186
17	76F4-04C12000-G0BK8-H0	4C	120	19	1.2	1.4	37.0	0.5	39.0	2.4	1.72	43.2	5715	215
18	76F4-04C15000-G0BK8-H0	4C	150	19	1.4	1.4	41.3	0.5	43.3	2.6	1.88	47.9	6970	259
19	76F4-04C18500-G0BK8-H0	4C	185	37	1.6	1.4	45.7	0.5	47.7	2.7	1.96	52.5	8435	296
20	76F4-04C24000-G0BK8-H0	4C	240	37	1.7	1.6	51.4	0.5	53.4	3.0	2.20	58.6	10850	367
21	76F4-04C30000-G0BK8-H0	4C	300	37	1.8	1.6	56.6	0.5	58.6	3.1	2.28	64.0	13450	415
22	76F4-04C40000-G0BK8-H0	4C	400	61	2.0	1.8	64.9	0.5	66.9	3.5	2.60	72.9	16885	534

**POWER, MULTI CORE SCREENED UNARMoured CABLE**  
CU/XLPE/PVC/CUT/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings.

**CONSTRUCTION**

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Flame retardant PVC compatible to conductor operating temperature in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Outer Sheath***	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black
Marking on the sheath	Example - CU/XLPE/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.  
\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.  
\*\*\* Other sheath color available on request.  
\*\*\*\*Flame Retardant Property of cable will be as per requirement.  
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7714-02C00150-U0BK8-00	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	180	40
2	7714-02C00250-U0BK8-00	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	210	43
3	7714-02C00400-U0BK8-00	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.8	1.24	13.6	255	47
4	7714-02C00600-U0BK8-00	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.8	1.24	14.8	310	51
5	7714-02C01000-U0BK8-00	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	420	59
6	7714-03C00150-U0BK8-00	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	205	42
7	7714-03C00250-U0BK8-00	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	250	45
8	7714-03C00400-U0BK8-00	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.8	1.24	14.3	310	49
9	7714-03C00600-U0BK8-00	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.8	1.24	15.6	390	55
10	7714-03C01000-U0BK8-00	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.8	1.24	17.6	540	62
11	7714-04C00150-U0BK8-00	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	235	44
12	7714-04C00250-U0BK8-00	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	290	49
13	7714-04C00400-U0BK8-00	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.8	1.24	15.3	365	53
14	7714-04C00600-U0BK8-00	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	470	59
15	7714-04C01000-U0BK8-00	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	665	68
16	7714-05C00150-U0BK8-00-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	270	48
17	7714-05C00250-U0BK8-00-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	330	52
18	7714-05C00400-U0BK8-00-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.8	1.24	16.4	425	58
19	7714-05C00600-U0BK8-00-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	550	64
20	7714-05C01000-U0BK8-00-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.8	1.24	20.5	790	74

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	ARMOR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7714-02C00150-U0BK8-0A	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	180	40
2	7714-02C00250-U0BK8-0A	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	210	43
3	7714-02C00400-U0BK8-0A	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.8	1.24	13.6	255	47
4	7714-02C00600-U0BK8-0A	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.8	1.24	14.8	310	51
5	7714-02C01000-U0BK8-0A	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	420	59
6	7714-03C00150-U0BK8-0A	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	205	42
7	7714-03C00250-U0BK8-0A	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	250	45
8	7714-03C00400-U0BK8-0A	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.8	1.24	14.3	310	49
9	7714-03C00600-U0BK8-0A	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.8	1.24	15.6	390	55
10	7714-03C01000-U0BK8-0A	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.8	1.24	17.6	540	62
11	7714-04C00150-U0BK8-0A	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	235	44
12	7714-04C00250-U0BK8-0A	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	290	49
13	7714-04C00400-U0BK8-0A	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.8	1.24	15.3	365	53
14	7714-04C00600-U0BK8-0A	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	470	59
15	7714-04C01000-U0BK8-0A	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	665	68
16	7714-05C00150-U0BK8-0A-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	270	48
17	7714-05C00250-U0BK8-0A-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	330	52
18	7714-05C00400-U0BK8-0A-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.8	1.24	16.4	425	58
19	7714-05C00600-U0BK8-0A-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	550	64
20	7714-05C01000-U0BK8-0A-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.8	1.24	20.5	790	74

**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7714-02C00150-U0BK8-NI	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	180	40
2	7714-02C00250-U0BK8-NI	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	210	43
3	7714-02C00400-U0BK8-NI	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.8	1.24	13.6	255	47
4	7714-02C00600-U0BK8-NI	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.8	1.24	14.8	310	51
5	7714-02C01000-U0BK8-NI	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	420	59
6	7714-03C00150-U0BK8-NI	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	205	42
7	7714-03C00250-U0BK8-NI	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	250	45
8	7714-03C00400-U0BK8-NI	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.8	1.24	14.3	310	49
9	7714-03C00600-U0BK8-NI	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.8	1.24	15.6	390	55
10	7714-03C01000-U0BK8-NI	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.8	1.24	17.6	540	62
11	7714-04C00150-U0BK8-NI	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	235	44
12	7714-04C00250-U0BK8-NI	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	290	49
13	7714-04C00400-U0BK8-NI	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.8	1.24	15.3	365	53
14	7714-04C00600-U0BK8-NI	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	470	59
15	7714-04C01000-U0BK8-NI	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	665	68
16	7714-05C00150-U0BK8-NI-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	270	48
17	7714-05C00250-U0BK8-NI-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	330	52
18	7714-05C00400-U0BK8-NI-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.8	1.24	16.4	425	58
19	7714-05C00600-U0BK8-NI-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	550	64
20	7714-05C01000-U0BK8-NI-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.8	1.24	20.5	790	74

**TABLE: IEC 60332-3-24 (CAT C)**

COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	77D4-02C01600-U0BK8-00	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	540	64
2	77D4-02C02500-U0BK8-00	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.8	1.24	21.2	760	77
3	77D4-02C03500-U0BK8-00	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.8	1.24	23.4	980	85
4	77D4-02C05000-U0BK8-00	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.8	1.24	26.5	1260	98
5	77D4-02C07000-U0BK8-00	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.9	1.32	30.1	1710	118
6	77D4-02C09500-U0BK8-00	2C	95	19	1.1	1.2	30.2	0.05	30.4	2.0	1.40	34.0	2255	141
7	77D4-02C12000-U0BK8-00	2C	120	19	1.2	1.2	33.5	0.05	33.7	2.1	1.48	37.5	2800	163
8	77D4-02C15000-U0BK8-00	2C	150	19	1.4	1.2	37.3	0.05	37.5	2.2	1.56	41.5	3410	190
9	77D4-02C18500-U0BK8-00	2C	185	37	1.6	1.4	41.7	0.05	41.9	2.3	1.64	45.9	4155	220
10	77D4-02C24000-U0BK8-00	2C	240	37	1.7	1.4	46.6	0.05	46.8	2.5	1.80	51.2	5350	268
11	77D4-02C30000-U0BK8-00	2C	300	37	1.8	1.6	51.7	0.05	51.9	2.7	1.96	56.7	6725	321
12	77D4-02C40000-U0BK8-00	2C	400	61	2.0	1.6	58.8	0.05	59.0	2.9	2.12	64.0	8380	390
13	77D4-03C01600-U0BK8-00	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	705	68
14	77D4-03C02500-U0BK8-00	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.8	1.24	22.4	1015	81
15	77D4-03C03500-U0BK8-00	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.8	1.24	24.8	1330	91
16	77D4-04C01600-U0BK8-00	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.8	1.24	20.6	885	74
17	77D4-05C01600-U0BK8-00-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.8	1.24	22.3	1060	81
18	77D4-05C02500-U0BK8-00-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.8	1.24	26.6	1555	98
19	77D4-05C03500-U0BK8-00-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.8	1.24	29.5	2060	110
20	77D4-05C05000-U0BK8-00-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	2.0	1.40	34.5	2800	143
21	77D4-05C07000-U0BK8-00-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	2.1	1.48	39.4	3840	172
22	77D4-05C09500-U0BK8-00-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	2.3	1.64	44.4	5085	213
23	77D4-05C12000-U0BK8-00-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	2.4	1.72	49.0	6360	246

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	77D4-02C01600-U0BK8-0A	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	540	64
2	77D4-02C02500-U0BK8-0A	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.8	1.24	21.2	760	77
3	77D4-02C03500-U0BK8-0A	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.8	1.24	23.4	980	85
4	77D4-02C05000-U0BK8-0A	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.8	1.24	26.5	1260	98
5	77D4-02C07000-U0BK8-0A	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.9	1.32	30.1	1710	118
6	77D4-02C09500-U0BK8-0A	2C	95	19	1.1	1.2	30.2	0.05	30.4	2.0	1.40	34.0	2255	141
7	77D4-02C12000-U0BK8-0A	2C	120	19	1.2	1.2	33.5	0.05	33.7	2.1	1.48	37.5	2800	163
8	77D4-02C15000-U0BK8-0A	2C	150	19	1.4	1.2	37.3	0.05	37.5	2.2	1.56	41.5	3410	190
9	77D4-02C18500-U0BK8-0A	2C	185	37	1.6	1.4	41.7	0.05	41.9	2.3	1.64	45.9	4155	220
10	77D4-02C24000-U0BK8-0A	2C	240	37	1.7	1.4	46.6	0.05	46.8	2.5	1.80	51.2	5350	268
11	77D4-02C30000-U0BK8-0A	2C	300	37	1.8	1.6	51.7	0.05	51.9	2.7	1.96	56.7	6725	321
12	77D4-02C40000-U0BK8-0A	2C	400	61	2.0	1.6	58.8	0.05	59.0	2.9	2.12	64.0	8380	390
13	77D4-03C01600-U0BK8-0A	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	705	68
14	77D4-03C02500-U0BK8-0A	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.8	1.24	22.4	1015	81
15	77D4-03C03500-U0BK8-0A	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.8	1.24	24.8	1330	91
16	77D4-04C01600-U0BK8-0A	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.8	1.24	20.6	885	74
17	77D4-05C01600-U0BK8-0A-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.8	1.24	22.3	1060	81
18	77D4-05C02500-U0BK8-0A-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.8	1.24	26.6	1555	98
19	77D4-05C03500-U0BK8-0A-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.8	1.24	29.5	2060	110
20	77D4-05C05000-U0BK8-0A-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	2.0	1.40	34.5	2800	143
21	77D4-05C07000-U0BK8-0A-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	2.1	1.48	39.4	3840	172
22	77D4-05C09500-U0BK8-0A-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	2.3	1.64	44.4	5085	213
23	77D4-05C12000-U0BK8-0A-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	2.4	1.72	49.0	6360	246

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	77D4-02C01600-U0BK8-NI	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	540	64
2	77D4-02C02500-U0BK8-NI	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.8	1.24	21.2	760	77
3	77D4-02C03500-U0BK8-NI	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.8	1.24	23.4	980	85
4	77D4-02C05000-U0BK8-NI	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.8	1.24	26.5	1260	98
5	77D4-02C07000-U0BK8-NI	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.9	1.32	30.1	1710	118
6	77D4-02C09500-U0BK8-NI	2C	95	19	1.1	1.2	30.2	0.05	30.4	2.0	1.40	34.0	2255	141
7	77D4-02C12000-U0BK8-NI	2C	120	19	1.2	1.2	33.5	0.05	33.7	2.1	1.48	37.5	2800	163
8	77D4-02C15000-U0BK8-NI	2C	150	19	1.4	1.2	37.3	0.05	37.5	2.2	1.56	41.5	3410	190
9	77D4-02C18500-U0BK8-NI	2C	185	37	1.6	1.4	41.7	0.05	41.9	2.3	1.64	45.9	4155	220
10	77D4-02C24000-U0BK8-NI	2C	240	37	1.7	1.4	46.6	0.05	46.8	2.5	1.80	51.2	5350	268
11	77D4-02C30000-U0BK8-NI	2C	300	37	1.8	1.6	51.7	0.05	51.9	2.7	1.96	56.7	6725	321
12	77D4-02C40000-U0BK8-NI	2C	400	61	2.0	1.6	58.8	0.05	59.0	2.9	2.12	64.0	8380	390
13	77D4-03C01600-U0BK8-NI	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	705	68
14	77D4-03C02500-U0BK8-NI	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.8	1.24	22.4	1015	81
15	77D4-03C03500-U0BK8-NI	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.8	1.24	24.8	1330	91
16	77D4-04C01600-U0BK8-NI	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.8	1.24	20.6	885	74
17	77D4-05C01600-U0BK8-NI-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.8	1.24	22.3	1060	81
18	77D4-05C02500-U0BK8-NI-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.8	1.24	26.6	1555	98
19	77D4-05C03500-U0BK8-NI-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.8	1.24	29.5	2060	110
20	77D4-05C05000-U0BK8-NI-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	2.0	1.40	34.5	2800	143
21	77D4-05C07000-U0BK8-NI-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	2.1	1.48	39.4	3840	172
22	77D4-05C09500-U0BK8-NI-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	2.3	1.64	44.4	5085	213
23	77D4-05C12000-U0BK8-NI-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	2.4	1.72	49.0	6360	246



**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	77F4-03C02500-U0BK8-00	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.8	1.24	19.9	965	72
2	77F4-03C03500-U0BK8-00	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.8	1.24	21.8	1265	79
3	77F4-03C05000-U0BK8-00	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.8	1.24	24.6	1675	90
4	77F4-03C07000-U0BK8-00	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.9	1.32	28.3	2335	110
5	77F4-03C09500-U0BK8-00	3C	95	19	1.1	1.2	27.6	0.05	27.8	2.0	1.40	31.4	3060	129
6	77F4-03C12000-U0BK8-00	3C	120	19	1.2	1.2	30.5	0.05	30.7	2.2	1.56	34.7	3840	157
7	77F4-03C15000-U0BK8-00	3C	150	19	1.4	1.4	34.4	0.05	34.6	2.3	1.64	38.6	4725	183
8	77F4-03C18500-U0BK8-00	3C	185	37	1.6	1.4	38.0	0.05	38.2	2.4	1.72	42.4	5775	211
9	77F4-03C24000-U0BK8-00	3C	240	37	1.7	1.6	42.7	0.05	42.9	2.6	1.88	47.5	7510	257
10	77F4-03C30000-U0BK8-00	3C	300	37	1.8	1.6	46.9	0.05	47.1	2.8	2.04	51.9	9425	302
11	77F4-03C40000-U0BK8-00	3C	400	61	2.0	1.6	53.3	0.05	53.5	3.1	2.28	58.9	11860	380
12	77F4-04C02500-U0BK8-00	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.8	1.24	22.8	1250	83
13	77F4-04C03500-U0BK8-00	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.8	1.24	25.2	1650	93
14	77F4-04C05000-U0BK8-00	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.9	1.32	28.9	2215	113
15	77F4-04C07000-U0BK8-00	4C	70	19	1.1	1.2	29.5	0.05	29.7	2.0	1.40	33.3	3090	138
16	77F4-04C09500-U0BK8-00	4C	95	19	1.1	1.2	33.0	0.05	33.2	2.2	1.56	37.2	4065	169
17	77F4-04C12000-U0BK8-00	4C	120	19	1.2	1.4	37.0	0.05	37.2	2.3	1.64	41.2	5105	197
18	77F4-04C15000-U0BK8-00	4C	150	19	1.4	1.4	41.3	0.05	41.5	2.5	1.80	45.9	6290	239
19	77F4-04C18500-U0BK8-00	4C	185	37	1.6	1.4	45.7	0.05	45.9	2.6	1.88	50.5	7695	274
20	77F4-04C24000-U0BK8-00	4C	240	37	1.7	1.6	51.4	0.05	51.6	2.8	2.04	56.4	9980	330
21	77F4-04C30000-U0BK8-00	4C	300	37	1.8	1.6	56.6	0.05	56.8	3.0	2.20	62.0	12530	389
22	77F4-04C40000-U0BK8-00	4C	400	61	2.0	1.8	64.9	0.05	65.1	3.3	2.44	70.7	15820	485

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	77F4-03C02500-U0BK8-0A	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.8	1.24	19.9	965	72
2	77F4-03C03500-U0BK8-0A	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.8	1.24	21.8	1265	79
3	77F4-03C05000-U0BK8-0A	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.8	1.24	24.6	1675	90
4	77F4-03C07000-U0BK8-0A	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.9	1.32	28.3	2335	110
5	77F4-03C09500-U0BK8-0A	3C	95	19	1.1	1.2	27.6	0.05	27.8	2.0	1.40	31.4	3060	129
6	77F4-03C12000-U0BK8-0A	3C	120	19	1.2	1.2	30.5	0.05	30.7	2.2	1.56	34.7	3840	157
7	77F4-03C15000-U0BK8-0A	3C	150	19	1.4	1.4	34.4	0.05	34.6	2.3	1.64	38.6	4725	183
8	77F4-03C18500-U0BK8-0A	3C	185	37	1.6	1.4	38.0	0.05	38.2	2.4	1.72	42.4	5775	211
9	77F4-03C24000-U0BK8-0A	3C	240	37	1.7	1.6	42.7	0.05	42.9	2.6	1.88	47.5	7510	257
10	77F4-03C30000-U0BK8-0A	3C	300	37	1.8	1.6	46.9	0.05	47.1	2.8	2.04	51.9	9425	302
11	77F4-03C40000-U0BK8-0A	3C	400	61	2.0	1.6	53.3	0.05	53.5	3.1	2.28	58.9	11860	380
12	77F4-04C02500-U0BK8-0A	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.8	1.24	22.8	1250	83
13	77F4-04C03500-U0BK8-0A	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.8	1.24	25.2	1650	93
14	77F4-04C05000-U0BK8-0A	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.9	1.32	28.9	2215	113
15	77F4-04C07000-U0BK8-0A	4C	70	19	1.1	1.2	29.5	0.05	29.7	2.0	1.40	33.3	3090	138
16	77F4-04C09500-U0BK8-0A	4C	95	19	1.1	1.2	33.0	0.05	33.2	2.2	1.56	37.2	4065	169
17	77F4-04C12000-U0BK8-0A	4C	120	19	1.2	1.4	37.0	0.05	37.2	2.3	1.64	41.2	5105	197
18	77F4-04C15000-U0BK8-0A	4C	150	19	1.4	1.4	41.3	0.05	41.5	2.5	1.80	45.9	6290	239
19	77F4-04C18500-U0BK8-0A	4C	185	37	1.6	1.4	45.7	0.05	45.9	2.6	1.88	50.5	7695	274
20	77F4-04C24000-U0BK8-0A	4C	240	37	1.7	1.6	51.4	0.05	51.6	2.8	2.04	56.4	9980	330
21	77F4-04C30000-U0BK8-0A	4C	300	37	1.8	1.6	56.6	0.05	56.8	3.0	2.20	62.0	12530	389
22	77F4-04C40000-U0BK8-0A	4C	400	61	2.0	1.8	64.9	0.05	65.1	3.3	2.44	70.7	15820	485

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	77F4-03C02500-U0BK8-NI	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.8	1.24	19.9	965	72
2	77F4-03C03500-U0BK8-NI	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.8	1.24	21.8	1265	79
3	77F4-03C05000-U0BK8-NI	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.8	1.24	24.6	1675	90
4	77F4-03C07000-U0BK8-NI	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.9	1.32	28.3	2335	110
5	77F4-03C09500-U0BK8-NI	3C	95	19	1.1	1.2	27.6	0.05	27.8	2.0	1.40	31.4	3060	129
6	77F4-03C12000-U0BK8-NI	3C	120	19	1.2	1.2	30.5	0.05	30.7	2.2	1.56	34.7	3840	157
7	77F4-03C15000-U0BK8-NI	3C	150	19	1.4	1.4	34.4	0.05	34.6	2.3	1.64	38.6	4725	183
8	77F4-03C18500-U0BK8-NI	3C	185	37	1.6	1.4	38.0	0.05	38.2	2.4	1.72	42.4	5775	211
9	77F4-03C24000-U0BK8-NI	3C	240	37	1.7	1.6	42.7	0.05	42.9	2.6	1.88	47.5	7510	257
10	77F4-03C30000-U0BK8-NI	3C	300	37	1.8	1.6	46.9	0.05	47.1	2.8	2.04	51.9	9425	302
11	77F4-03C40000-U0BK8-NI	3C	400	61	2.0	1.6	53.3	0.05	53.5	3.1	2.28	58.9	11860	380
12	77F4-04C02500-U0BK8-NI	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.8	1.24	22.8	1250	83
13	77F4-04C03500-U0BK8-NI	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.8	1.24	25.2	1650	93
14	77F4-04C05000-U0BK8-NI	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.9	1.32	28.9	2215	113
15	77F4-04C07000-U0BK8-NI	4C	70	19	1.1	1.2	29.5	0.05	29.7	2.0	1.40	33.3	3090	138
16	77F4-04C09500-U0BK8-NI	4C	95	19	1.1	1.2	33.0	0.05	33.2	2.2	1.56	37.2	4065	169
17	77F4-04C12000-U0BK8-NI	4C	120	19	1.2	1.4	37.0	0.05	37.2	2.3	1.64	41.2	5105	197
18	77F4-04C15000-U0BK8-NI	4C	150	19	1.4	1.4	41.3	0.05	41.5	2.5	1.80	45.9	6290	239
19	77F4-04C18500-U0BK8-NI	4C	185	37	1.6	1.4	45.7	0.05	45.9	2.6	1.88	50.5	7695	274
20	77F4-04C24000-U0BK8-NI	4C	240	37	1.7	1.6	51.4	0.05	51.6	2.8	2.04	56.4	9980	330
21	77F4-04C30000-U0BK8-NI	4C	300	37	1.8	1.6	56.6	0.05	56.8	3.0	2.20	62.0	12530	389
22	77F4-04C40000-U0BK8-NI	4C	400	61	2.0	1.8	64.9	0.05	65.1	3.3	2.44	70.7	15820	485

**CONTROL, MULTI CORE SCREENED UNARMoured CABLE**  
CU/XLPE/PVC/CUT/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings.

**CONSTRUCTION**

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C & above: Black core with number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Flame retardant PVC compatible to conductor operating temperature in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Outer Sheath***	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black
Marking on the sheath	Example - CU/XLPE/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.

\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7714-02C00150-U0BK8-00	2	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	180	40
2	7714-03C00150-U0BK8-00	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	205	42
3	7714-04C00150-U0BK8-00	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	235	44
4	7714-05C00150-U0BK8-00	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	270	48
5	7714-06C00150-U0BK8-00	6	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	300	51
6	7714-07C00150-U0BK8-00	7	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	320	51
7	7714-08C00150-U0BK8-00	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.8	1.24	16.1	360	57
8	7714-10C00150-U0BK8-00	10	1.5	7	0.7	1.0	14.3	0.05	14.5	1.8	1.24	17.7	425	63
9	7714-12C00150-U0BK8-00	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.8	1.24	18.2	485	65
10	7714-14C00150-U0BK8-00	14	1.5	7	0.7	1.0	15.5	0.05	15.7	1.8	1.24	18.9	520	68
11	7714-15C00150-U0BK8-00	15	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	555	71
12	7714-16C00150-U0BK8-00	16	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	575	71
13	7714-18C00150-U0BK8-00	18	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	630	75
14	7714-19C00150-U0BK8-00	19	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	645	75
15	7714-20C00150-U0BK8-00	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.8	1.24	21.7	680	79
16	7714-22C00150-U0BK8-00	22	1.5	7	0.7	1.0	19.3	0.05	19.5	1.8	1.24	22.7	745	83
17	7714-24C00150-U0BK8-00	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	790	87
18	7714-25C00150-U0BK8-00	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	810	87
19	7714-26C00150-U0BK8-00	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	830	87
20	7714-30C00150-U0BK8-00	30	1.5	7	0.7	1.0	21.5	0.05	21.7	1.8	1.24	24.9	925	91
21	7714-32C00150-U0BK8-00	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.8	1.24	25.8	985	95
22	7714-35C00150-U0BK8-00	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1055	99
23	7714-36C00150-U0BK8-00	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1070	99
24	7714-40C00150-U0BK8-00	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.8	1.24	27.7	1165	102
25	7714-50C00150-U0BK8-00	50	1.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1415	121
26	7714-61C00150-U0BK8-00	61	1.5	7	0.7	1.0	29.3	0.05	29.5	1.9	1.32	32.9	1665	129
27	7714-02C00250-U0BK8-00	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	210	43
28	7714-03C00250-U0BK8-00	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	250	45
29	7714-04C00250-U0BK8-00	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	290	49
30	7714-05C00250-U0BK8-00	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	330	52
31	7714-06C00250-U0BK8-00	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	380	56
32	7714-07C00250-U0BK8-00	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	405	56

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
33	7714-08C00250-U0BK8-00	8	2.5	7	0.7	1.0	14.1	0.05	14.3	1.8	1.24	17.5	455	62
34	7714-10C00250-U0BK8-00	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.8	1.24	19.4	545	70
35	7714-12C00250-U0BK8-00	12	2.5	7	0.7	1.0	16.5	0.05	16.7	1.8	1.24	19.9	620	72
36	7714-14C00250-U0BK8-00	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.8	1.24	20.8	695	75
37	7714-15C00250-U0BK8-00	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	730	79
38	7714-16C00250-U0BK8-00	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	755	79
39	7714-18C00250-U0BK8-00	18	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	835	83
40	7714-19C00250-U0BK8-00	19	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	860	83
41	7714-20C00250-U0BK8-00	20	2.5	7	0.7	1.0	20.5	0.05	20.7	1.8	1.24	23.9	905	87
42	7714-22C00250-U0BK8-00	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.8	1.24	25.1	980	92
43	7714-24C00250-U0BK8-00	24	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1055	97
44	7714-25C00250-U0BK8-00	25	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1085	97
45	7714-26C00250-U0BK8-00	26	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1115	97
46	7714-30C00250-U0BK8-00	30	2.5	7	0.7	1.0	24.2	0.05	24.4	1.8	1.24	27.6	1250	102
47	7714-32C00250-U0BK8-00	32	2.5	7	0.7	1.0	25.2	0.05	25.4	1.8	1.24	28.6	1325	106
48	7714-35C00250-U0BK8-00	35	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1425	110
49	7714-36C00250-U0BK8-00	36	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1455	110
50	7714-40C00250-U0BK8-00	40	2.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1600	121
51	7714-50C00250-U0BK8-00	50	2.5	7	0.7	1.0	30.8	0.05	31.0	2.0	1.40	34.6	1960	143
52	7714-61C00250-U0BK8-00	61	2.5	7	0.7	1.0	33.0	0.05	33.2	2.1	1.48	37.0	2335	161



**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7714-02C00150-U0BK8-0A	2	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	180	40
2	7714-03C00150-U0BK8-0A	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	205	42
3	7714-04C00150-U0BK8-0A	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	235	44
4	7714-05C00150-U0BK8-0A	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	270	48
5	7714-06C00150-U0BK8-0A	6	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	300	51
6	7714-07C00150-U0BK8-0A	7	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	320	51
7	7714-08C00150-U0BK8-0A	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.8	1.24	16.1	360	57
8	7714-10C00150-U0BK8-0A	10	1.5	7	0.7	1.0	14.3	0.05	14.5	1.8	1.24	17.7	425	63
9	7714-12C00150-U0BK8-0A	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.8	1.24	18.2	485	65
10	7714-14C00150-U0BK8-0A	14	1.5	7	0.7	1.0	15.5	0.05	15.7	1.8	1.24	18.9	520	68
11	7714-15C00150-U0BK8-0A	15	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	555	71
12	7714-16C00150-U0BK8-0A	16	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	575	71
13	7714-18C00150-U0BK8-0A	18	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	630	75
14	7714-19C00150-U0BK8-0A	19	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	645	75
15	7714-20C00150-U0BK8-0A	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.8	1.24	21.7	680	79
16	7714-22C00150-U0BK8-0A	22	1.5	7	0.7	1.0	19.3	0.05	19.5	1.8	1.24	22.7	745	83
17	7714-24C00150-U0BK8-0A	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	790	87
18	7714-25C00150-U0BK8-0A	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	810	87
19	7714-26C00150-U0BK8-0A	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	830	87
20	7714-30C00150-U0BK8-0A	30	1.5	7	0.7	1.0	21.5	0.05	21.7	1.8	1.24	24.9	925	91
21	7714-32C00150-U0BK8-0A	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.8	1.24	25.8	985	95
22	7714-35C00150-U0BK8-0A	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1055	99
23	7714-36C00150-U0BK8-0A	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1070	99
25	7714-40C00150-U0BK8-0A	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.8	1.24	27.7	1165	102
25	7714-50C00150-U0BK8-0A	50	1.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1415	121
26	7714-61C00150-U0BK8-0A	61	1.5	7	0.7	1.0	29.3	0.05	29.5	1.9	1.32	32.9	1665	129
27	7714-02C00250-U0BK8-0A	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	210	43
28	7714-03C00250-U0BK8-0A	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	250	45
29	7714-04C00250-U0BK8-0A	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	290	49
30	7714-05C00250-U0BK8-0A	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	330	52
31	7714-06C00250-U0BK8-0A	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	380	56
32	7714-07C00250-U0BK8-0A	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	405	56

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
33	7714-08C00250-U0BK8-0A	8	2.5	7	0.7	1.0	14.1	0.05	14.3	1.8	1.24	17.5	455	62
34	7714-10C00250-U0BK8-0A	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.8	1.24	19.4	545	70
35	7714-12C00250-U0BK8-0A	12	2.5	7	0.7	1.0	16.5	0.05	16.7	1.8	1.24	19.9	620	72
36	7714-14C00250-U0BK8-0A	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.8	1.24	20.8	695	75
37	7714-15C00250-U0BK8-0A	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	730	79
38	7714-16C00250-U0BK8-0A	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	755	79
39	7714-18C00250-U0BK8-0A	18	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	835	83
40	7714-19C00250-U0BK8-0A	19	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	860	83
41	7714-20C00250-U0BK8-0A	20	2.5	7	0.7	1.0	20.5	0.05	20.7	1.8	1.24	23.9	905	87
42	7714-22C00250-U0BK8-0A	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.8	1.24	25.1	980	92
43	7714-24C00250-U0BK8-0A	24	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1055	97
44	7714-25C00250-U0BK8-0A	25	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1085	97
45	7714-26C00250-U0BK8-0A	26	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1115	97
46	7714-30C00250-U0BK8-0A	30	2.5	7	0.7	1.0	24.2	0.05	24.4	1.8	1.24	27.6	1250	102
47	7714-32C00250-U0BK8-0A	32	2.5	7	0.7	1.0	25.2	0.05	25.4	1.8	1.24	28.6	1325	106
48	7714-35C00250-U0BK8-0A	35	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1425	110
49	7714-36C00250-U0BK8-0A	36	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1455	110
50	7714-40C00250-U0BK8-0A	40	2.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1600	121
51	7714-50C00250-U0BK8-0A	50	2.5	7	0.7	1.0	30.8	0.05	31.0	2.0	1.40	34.6	1960	143
52	7714-61C00250-U0BK8-0A	61	2.5	7	0.7	1.0	33.0	0.05	33.2	2.1	1.48	37.0	2335	161



**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7714-02C00150-U0BK8-NI	2	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	180	40
2	7714-03C00150-U0BK8-NI	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	205	42
3	7714-04C00150-U0BK8-NI	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	235	44
4	7714-05C00150-U0BK8-NI	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	270	48
5	7714-06C00150-U0BK8-NI	6	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	300	51
6	7714-07C00150-U0BK8-NI	7	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	320	51
7	7714-08C00150-U0BK8-NI	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.8	1.24	16.1	360	57
8	7714-10C00150-U0BK8-NI	10	1.5	7	0.7	1.0	14.3	0.05	14.5	1.8	1.24	17.7	425	63
9	7714-12C00150-U0BK8-NI	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.8	1.24	18.2	485	65
10	7714-14C00150-U0BK8-NI	14	1.5	7	0.7	1.0	15.5	0.05	15.7	1.8	1.24	18.9	520	68
11	7714-15C00150-U0BK8-NI	15	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	555	71
12	7714-16C00150-U0BK8-NI	16	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	575	71
13	7714-18C00150-U0BK8-NI	18	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	630	75
14	7714-19C00150-U0BK8-NI	19	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	645	75
15	7714-20C00150-U0BK8-NI	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.8	1.24	21.7	680	79
16	7714-22C00150-U0BK8-NI	22	1.5	7	0.7	1.0	19.3	0.05	19.5	1.8	1.24	22.7	745	83
17	7714-24C00150-U0BK8-NI	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	790	87
18	7714-25C00150-U0BK8-NI	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	810	87
19	7714-26C00150-U0BK8-NI	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	830	87
20	7714-30C00150-U0BK8-NI	30	1.5	7	0.7	1.0	21.5	0.05	21.7	1.8	1.24	24.9	925	91
21	7714-32C00150-U0BK8-NI	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.8	1.24	25.8	985	95
22	7714-35C00150-U0BK8-NI	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1055	99
23	7714-36C00150-U0BK8-NI	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1070	99
25	7714-40C00150-U0BK8-NI	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.8	1.24	27.7	1165	102
25	7714-50C00150-U0BK8-NI	50	1.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1415	121
26	7714-61C00150-U0BK8-NI	61	1.5	7	0.7	1.0	29.3	0.05	29.5	1.9	1.32	32.9	1665	129
27	7714-02C00250-U0BK8-NI	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	210	43
28	7714-03C00250-U0BK8-NI	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	250	45
29	7714-04C00250-U0BK8-NI	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	290	49
30	7714-05C00250-U0BK8-NI	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	330	52
31	7714-06C00250-U0BK8-NI	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	380	56
32	7714-07C00250-U0BK8-NI	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	405	56

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
33	7714-08C00250-U0BK8-NI	8	2.5	7	0.7	1.0	14.1	0.05	14.3	1.8	1.24	17.5	455	62
34	7714-10C00250-U0BK8-NI	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.8	1.24	19.4	545	70
35	7714-12C00250-U0BK8-NI	12	2.5	7	0.7	1.0	16.5	0.05	16.7	1.8	1.24	19.9	620	72
36	7714-14C00250-U0BK8-NI	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.8	1.24	20.8	695	75
37	7714-15C00250-U0BK8-NI	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	730	79
38	7714-16C00250-U0BK8-NI	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	755	79
39	7714-18C00250-U0BK8-NI	18	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	835	83
40	7714-19C00250-U0BK8-NI	19	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	860	83
41	7714-20C00250-U0BK8-NI	20	2.5	7	0.7	1.0	20.5	0.05	20.7	1.8	1.24	23.9	905	87
42	7714-22C00250-U0BK8-NI	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.8	1.24	25.1	980	92
43	7714-24C00250-U0BK8-NI	24	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1055	97
44	7714-25C00250-U0BK8-NI	25	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1085	97
45	7714-26C00250-U0BK8-NI	26	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1115	97
46	7714-30C00250-U0BK8-NI	30	2.5	7	0.7	1.0	24.2	0.05	24.4	1.8	1.24	27.6	1250	102
47	7714-32C00250-U0BK8-NI	32	2.5	7	0.7	1.0	25.2	0.05	25.4	1.8	1.24	28.6	1325	106
48	7714-35C00250-U0BK8-NI	35	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1425	110
49	7714-36C00250-U0BK8-NI	36	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1455	110
50	7714-40C00250-U0BK8-NI	40	2.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1600	121
51	7714-50C00250-U0BK8-NI	50	2.5	7	0.7	1.0	30.8	0.05	31.0	2.0	1.40	34.6	1960	143
52	7714-61C00250-U0BK8-NI	61	2.5	7	0.7	1.0	33.0	0.05	33.2	2.1	1.48	37.0	2335	161

## POWER, MULTI CORE SCREENED UNARMoured CABLE

CU/XLPE/LSZH/CUT/LSZH  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Outer Sheath***	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.

\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA. OVER METALLIC SCREEN	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	7714-02C00150-U0BK8-H0	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	175	40
2	7714-02C00250-U0BK8-H0	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	205	43
3	7714-02C00400-U0BK8-H0	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.8	1.24	13.6	250	47
4	7714-02C00600-U0BK8-H0	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.8	1.24	14.8	305	51
5	7714-02C01000-U0BK8-H0	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	415	59
6	7714-03C00150-U0BK8-H0	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	200	42
7	7714-03C00250-U0BK8-H0	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	245	45
8	7714-03C00400-U0BK8-H0	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.8	1.24	14.3	305	49
9	7714-03C00600-U0BK8-H0	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.8	1.24	15.6	385	55
10	7714-03C01000-U0BK8-H0	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.8	1.24	17.6	535	62
11	7714-04C00150-U0BK8-H0	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	230	44
12	7714-04C00250-U0BK8-H0	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	285	49
13	7714-04C00400-U0BK8-H0	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.8	1.24	15.3	360	53
14	7714-04C00600-U0BK8-H0	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.8	1.24	16.7	460	59
15	7714-04C01000-U0BK8-H0	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	660	68
16	7714-05C00150-U0BK8-H0-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	265	48
17	7714-05C00250-U0BK8-H0-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	325	52
18	7714-05C00400-U0BK8-H0-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.8	1.24	16.4	420	58
19	7714-05C00600-U0BK8-H0-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	545	64
20	7714-05C01000-U0BK8-H0-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.8	1.24	20.5	780	74

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA. OVER METALLIC SCREEN	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	77D4-02C01600-U0BK8-H0	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.8	1.24	18.0	535	64
2	77D4-02C02500-U0BK8-H0	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.8	1.24	21.2	750	77
3	77D4-02C03500-U0BK8-H0	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.8	1.24	23.4	970	85
4	77D4-02C05000-U0BK8-H0	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.8	1.24	26.5	1250	98
5	77D4-02C07000-U0BK8-H0	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.9	1.32	30.1	1695	118
6	77D4-02C09500-U0BK8-H0	2C	95	19	1.1	1.2	30.2	0.05	30.4	2.0	1.40	34.0	2240	141
7	77D4-02C12000-U0BK8-H0	2C	120	19	1.2	1.2	33.5	0.05	33.7	2.1	1.48	37.5	2780	163
8	77D4-02C15000-U0BK8-H0	2C	150	19	1.4	1.2	37.3	0.05	37.5	2.2	1.56	41.5	3390	190
9	77D4-02C18500-U0BK8-H0	2C	185	37	1.6	1.4	41.7	0.05	41.9	2.3	1.64	45.9	4130	220
10	77D4-02C24000-U0BK8-H0	2C	240	37	1.7	1.4	46.6	0.05	46.8	2.5	1.80	51.2	5320	268
11	77D4-02C30000-U0BK8-H0	2C	300	37	1.8	1.6	51.7	0.05	51.9	2.7	1.96	56.7	6690	321
12	77D4-02C40000-U0BK8-H0	2C	400	61	2.0	1.6	58.8	0.05	59.0	2.9	2.12	64.0	8340	390
13	77D4-03C01600-U0BK8-H0	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.8	1.24	19.0	700	68
14	77D4-03C02500-U0BK8-H0	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.8	1.24	22.4	1005	81
15	77D4-03C03500-U0BK8-H0	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.8	1.24	24.8	1320	91
16	77D4-04C01600-U0BK8-H0	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.8	1.24	20.6	880	74
17	77D4-05C01600-U0BK8-H0-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.8	1.24	22.3	1055	81
18	77D4-05C02500-U0BK8-H0-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.8	1.24	26.6	1545	98
19	77D4-05C03500-U0BK8-H0-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.8	1.24	29.5	2045	110
20	77D4-05C05000-U0BK8-H0-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	2.0	1.40	34.5	2785	143
21	77D4-05C07000-U0BK8-H0-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	2.1	1.48	39.4	3820	172
22	77D4-05C09500-U0BK8-H0-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	2.3	1.64	44.4	5065	213
19	77D4-05C12000-U0BK8-H0-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	2.4	1.72	49.0	6335	246

\*Non-Compacted circular conductor, all other compacted circular conductor.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA. OVER METALLIC SCREEN	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
1	77F4-03C02500-U0BK8-H0	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.8	1.24	19.9	955	72
2	77F4-03C03500-U0BK8-H0	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.8	1.24	21.8	1255	79
3	77F4-03C05000-U0BK8-H0	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.8	1.24	24.6	1665	90
4	77F4-03C07000-U0BK8-H0	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.9	1.32	28.3	2325	110
5	77F4-03C09500-U0BK8-H0	3C	95	19	1.1	1.2	27.6	0.05	27.8	2.0	1.40	31.4	3045	129
6	77F4-03C12000-U0BK8-H0	3C	120	19	1.2	1.2	30.5	0.05	30.7	2.2	1.56	34.7	3820	157
7	77F4-03C15000-U0BK8-H0	3C	150	19	1.4	1.4	34.4	0.05	34.6	2.3	1.64	38.6	4705	183
8	77F4-03C18500-U0BK8-H0	3C	185	37	1.6	1.4	38.0	0.05	38.2	2.4	1.72	42.4	5750	211
9	77F4-03C24000-U0BK8-H0	3C	240	37	1.7	1.6	42.7	0.05	42.9	2.6	1.88	47.5	7485	257
10	77F4-03C30000-U0BK8-H0	3C	300	37	1.8	1.6	46.9	0.05	47.1	2.8	2.04	51.9	9390	302
11	77F4-03C40000-U0BK8-H0	3C	400	61	2.0	1.6	53.3	0.05	53.5	3.1	2.28	58.9	11825	380
12	77F4-04C02500-U0BK8-H0	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.8	1.24	22.8	1240	83
13	77F4-04C03500-U0BK8-H0	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.8	1.24	25.2	1640	93
14	77F4-04C05000-U0BK8-H0	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.9	1.32	28.9	2205	113
15	77F4-04C07000-U0BK8-H0	4C	70	19	1.1	1.2	29.5	0.05	29.7	2.0	1.40	33.3	3075	138
16	77F4-04C09500-U0BK8-H0	4C	95	19	1.1	1.2	33.0	0.05	33.2	2.2	1.56	37.2	4045	169
17	77F4-04C12000-U0BK8-H0	4C	120	19	1.2	1.4	37.0	0.05	37.2	2.3	1.64	41.2	5085	197
18	77F4-04C15000-U0BK8-H0	4C	150	19	1.4	1.4	41.3	0.05	41.5	2.5	1.80	45.9	6265	239
19	77F4-04C18500-U0BK8-H0	4C	185	37	1.6	1.4	45.7	0.05	45.9	2.6	1.88	50.5	7670	274
20	77F4-04C24000-U0BK8-H0	4C	240	37	1.7	1.6	51.4	0.05	51.6	2.8	2.04	56.4	9945	330
17	77F4-04C30000-U0BK8-H0	4C	300	37	1.8	1.6	56.6	0.05	56.8	3.0	2.20	62.0	12490	389
18	77F4-04C40000-U0BK8-H0	4C	400	61	2.0	1.8	64.9	0.05	65.1	3.3	2.44	70.7	15770	485



# CONTROL, MULTI CORE SCREENED UNARMoured CABLE

CU/XLPE/LSZH/CUT/LSZH

SPECIFICATION: IEC 60502-1



**APPLICATION**  
Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

## CONSTRUCTION

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C & above: Black core with number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Outer Sheath***	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

## TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.

\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA. OVER METALLIC SCREEN	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
										Nom	Min			
1	7714-02C00150-U0BK8-H0	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.8	1.24	11.8	175	40
2	7714-03C00150-U0BK8-H0	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.8	1.24	12.3	200	42
3	7714-04C00150-U0BK8-H0	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.8	1.24	13.0	230	44
4	7714-05C00150-U0BK8-H0	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.8	1.24	13.9	265	48
5	7714-06C00150-U0BK8-H0	6	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	295	51
6	7714-07C00150-U0BK8-H0	7	1.5	7	0.7	1.0	11.3	0.05	11.5	1.8	1.24	14.7	315	51
7	7714-08C00150-U0BK8-H0	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.8	1.24	16.1	355	57
8	7714-10C00150-U0BK8-H0	10	1.5	7	0.7	1.0	14.3	0.05	14.5	1.8	1.24	17.7	420	63
9	7714-12C00150-U0BK8-H0	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.8	1.24	18.2	480	65
10	7714-14C00150-U0BK8-H0	14	1.5	7	0.7	1.0	15.5	0.05	15.7	1.8	1.24	18.9	515	68
11	7714-15C00150-U0BK8-H0	15	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	550	71
12	7714-16C00150-U0BK8-H0	16	1.5	7	0.7	1.0	16.4	0.05	16.6	1.8	1.24	19.8	565	71
13	7714-18C00150-U0BK8-H0	18	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	625	75
14	7714-19C00150-U0BK8-H0	19	1.5	7	0.7	1.0	17.3	0.05	17.5	1.8	1.24	20.7	640	75
15	7714-20C00150-U0BK8-H0	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.8	1.24	21.7	675	79
16	7714-22C00150-U0BK8-H0	22	1.5	7	0.7	1.0	19.3	0.05	19.5	1.8	1.24	22.7	735	83
17	7714-24C00150-U0BK8-H0	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	780	87
18	7714-25C00150-U0BK8-H0	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	800	87
19	7714-26C00150-U0BK8-H0	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.8	1.24	23.7	820	87
20	7714-30C00150-U0BK8-H0	30	1.5	7	0.7	1.0	21.5	0.05	21.7	1.8	1.24	24.9	915	91
21	7714-32C00150-U0BK8-H0	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.8	1.24	25.8	975	95
22	7714-35C00150-U0BK8-H0	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1045	99
23	7714-36C00150-U0BK8-H0	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.8	1.24	26.7	1060	99
24	7714-40C00150-U0BK8-H0	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.8	1.24	27.7	1155	102
25	7714-50C00150-U0BK8-H0	50	1.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1405	121
26	7714-61C00150-U0BK8-H0	61	1.5	7	0.7	1.0	29.3	0.05	29.5	1.9	1.32	32.9	1655	129
27	7714-02C00250-U0BK8-H0	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.8	1.24	12.6	205	43
28	7714-03C00250-U0BK8-H0	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.8	1.24	13.2	245	45
29	7714-04C00250-U0BK8-H0	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.8	1.24	14.1	285	49
30	7714-05C00250-U0BK8-H0	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.8	1.24	15.0	325	52
31	7714-06C00250-U0BK8-H0	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	375	56
32	7714-07C00250-U0BK8-H0	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.8	1.24	16.0	400	56



**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA. OVER METALLIC SCREEN	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
										Nom	Min			
33	7714-08C00250-U0BK8-H0	8	2.5	7	0.7	1.0	14.1	0.05	14.3	1.8	1.24	17.5	450	62
34	7714-10C00250-U0BK8-H0	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.8	1.24	19.4	540	70
35	7714-12C00250-U0BK8-H0	12	2.5	7	0.7	1.0	16.5	0.05	16.7	1.8	1.24	19.9	615	72
36	7714-14C00250-U0BK8-H0	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.8	1.24	20.8	690	75
37	7714-15C00250-U0BK8-H0	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	720	79
38	7714-16C00250-U0BK8-H0	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.8	1.24	21.8	750	79
39	7714-18C00250-U0BK8-H0	18	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	825	83
40	7714-19C00250-U0BK8-H0	19	2.5	7	0.7	1.0	19.4	0.05	19.6	1.8	1.24	22.8	850	83
41	7714-20C00250-U0BK8-H0	20	2.5	7	0.7	1.0	20.5	0.05	20.7	1.8	1.24	23.9	895	87
42	7714-22C00250-U0BK8-H0	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.8	1.24	25.1	970	92
43	7714-24C00250-U0BK8-H0	24	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1045	97
44	7714-25C00250-U0BK8-H0	25	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1075	97
45	7714-26C00250-U0BK8-H0	26	2.5	7	0.7	1.0	22.8	0.05	23.0	1.8	1.24	26.2	1105	97
46	7714-30C00250-U0BK8-H0	30	2.5	7	0.7	1.0	24.2	0.05	24.4	1.8	1.24	27.6	1240	102
47	7714-32C00250-U0BK8-H0	32	2.5	7	0.7	1.0	25.2	0.05	25.4	1.8	1.24	28.6	1310	106
48	7714-35C00250-U0BK8-H0	35	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1410	110
49	7714-36C00250-U0BK8-H0	36	2.5	7	0.7	1.0	26.2	0.05	26.4	1.8	1.24	29.6	1445	110
50	7714-40C00250-U0BK8-H0	40	2.5	7	0.7	1.0	27.3	0.05	27.5	1.9	1.32	30.9	1585	121
51	7714-50C00250-U0BK8-H0	50	2.5	7	0.7	1.0	30.8	0.05	31.0	2.0	1.40	34.6	1945	143
52	7714-61C00250-U0BK8-H0	61	2.5	7	0.7	1.0	33.0	0.05	33.2	2.1	1.48	37.0	2320	161

**POWER, MULTI CORE SCREENED ARMoured CABLE**  
CU/XLPE/PVC/CUT/PVC/GSWA/PVC  
SPECIFICATION: IEC 60502-1



**APPLICATION**

Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings..

**CONSTRUCTION**

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Flame retardant PVC compatible to conductor operating temperature in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Bedding	Flame retardant PVC compatible to conductor operating temperature in Black color.
Armour	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath***	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black
Marking on the sheath	Example - CU/XLPE/GSWA/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

**TECHNICAL DATA:**

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-02C00150-W0BK8-00	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	465	57
2	7714-02C00250-W0BK8-00	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	575	60
3	7714-02C00400-W0BK8-00	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.2	13.1	1.25	15.5	1.8	1.24	18.7	670	67
4	7714-02C00600-W0BK8-00	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	765	72
5	7714-02C01000-W0BK8-00	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	925	79
6	7714-03C00150-W0BK8-00	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	500	59
7	7714-03C00250-W0BK8-00	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	650	65
8	7714-03C00400-W0BK8-00	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.2	13.7	1.25	16.2	1.8	1.24	19.4	750	70
9	7714-03C00600-W0BK8-00	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.2	15.0	1.25	17.5	1.8	1.24	20.7	870	75
10	7714-03C01000-W0BK8-00	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	1070	83
11	7714-04C00150-W0BK8-00	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	15.0	1.8	1.24	18.1	635	64
12	7714-04C00250-W0BK8-00	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	720	69
13	7714-04C00400-W0BK8-00	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.2	14.7	1.25	17.2	1.8	1.24	20.4	830	74
14	7714-04C00600-W0BK8-00	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	975	79
15	7714-04C01000-W0BK8-00	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1360	91
16	7714-05C00150-W0BK8-00-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	695	68
17	7714-05C00250-W0BK8-00-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	790	72
18	7714-05C00400-W0BK8-00-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.2	15.8	1.25	18.3	1.8	1.24	21.5	930	78
19	7714-05C00600-W0BK8-00-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.25	19.9	1.8	1.24	23.1	1095	84
20	7714-05C01000-W0BK8-00-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.2	19.9	1.6	23.1	1.8	1.24	26.3	1545	97

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-02C00150-W0BK8-0A	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	465	57
2	7714-02C00250-W0BK8-0A	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	575	60
3	7714-02C00400-W0BK8-0A	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.2	13.1	1.25	15.5	1.8	1.24	18.7	670	67
4	7714-02C00600-W0BK8-0A	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	765	72
5	7714-02C01000-W0BK8-0A	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	925	79
6	7714-03C00150-W0BK8-0A	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	500	59
7	7714-03C00250-W0BK8-0A	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	650	65
8	7714-03C00400-W0BK8-0A	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.2	13.7	1.25	16.2	1.8	1.24	19.4	750	70
9	7714-03C00600-W0BK8-0A	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.2	15.0	1.25	17.5	1.8	1.24	20.7	870	75
10	7714-03C01000-W0BK8-0A	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	1070	83
11	7714-04C00150-W0BK8-0A	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	15.0	1.8	1.24	18.1	635	64
12	7714-04C00250-W0BK8-0A	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	720	69
13	7714-04C00400-W0BK8-0A	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.2	14.7	1.25	17.2	1.8	1.24	20.4	830	74
14	7714-04C00600-W0BK8-0A	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	975	79
15	7714-04C01000-W0BK8-0A	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1360	91
16	7714-05C00150-W0BK8-0A-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	695	68
17	7714-05C00250-W0BK8-0A-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	790	72
18	7714-05C00400-W0BK8-0A-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.2	15.8	1.25	18.3	1.8	1.24	21.5	930	78
19	7714-05C00600-W0BK8-0A-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.25	19.9	1.8	1.24	23.1	1095	84
20	7714-05C01000-W0BK8-0A-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.2	19.9	1.6	23.1	1.8	1.24	26.3	1545	97

**TABLE: IEC 60332-1-2**

NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-02C00150-W0BK8-NI	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	465	57
2	7714-02C00250-W0BK8-NI	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	575	60
3	7714-02C00400-W0BK8-NI	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.2	13.1	1.25	15.5	1.8	1.24	18.7	670	67
4	7714-02C00600-W0BK8-NI	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	765	72
5	7714-02C01000-W0BK8-NI	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	925	79
6	7714-03C00150-W0BK8-NI	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	500	59
7	7714-03C00250-W0BK8-NI	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	650	65
8	7714-03C00400-W0BK8-NI	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.2	13.7	1.25	16.2	1.8	1.24	19.4	750	70
9	7714-03C00600-W0BK8-NI	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.2	15.0	1.25	17.5	1.8	1.24	20.7	870	75
10	7714-03C01000-W0BK8-NI	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	1070	83
11	7714-04C00150-W0BK8-NI	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	15.0	1.8	1.24	18.1	635	64
12	7714-04C00250-W0BK8-NI	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	720	69
13	7714-04C00400-W0BK8-NI	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.2	14.7	1.25	17.2	1.8	1.24	20.4	830	74
14	7714-04C00600-W0BK8-NI	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	975	79
15	7714-04C01000-W0BK8-NI	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1360	91
16	7714-05C00150-W0BK8-NI-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	695	68
17	7714-05C00250-W0BK8-NI-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	790	72
18	7714-05C00400-W0BK8-NI-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.2	15.8	1.25	18.3	1.8	1.24	21.5	930	78
19	7714-05C00600-W0BK8-NI-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.25	19.9	1.8	1.24	23.1	1095	84
20	7714-05C01000-W0BK8-NI-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.2	19.9	1.6	23.1	1.8	1.24	26.3	1545	97

**TABLE: IEC 60332-3-24 (CAT C)**

COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	77D4-02C01600-W0BK8-00	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.6	20.6	1.8	1.24	23.8	1215	87
2	77D4-02C02500-W0BK8-00	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.2	20.6	1.6	23.8	1.8	1.24	27.0	1535	100
3	77D4-02C03500-W0BK8-00	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.2	22.8	1.6	26.0	1.8	1.24	29.2	1835	108
4	77D4-02C05000-W0BK8-00	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.2	25.9	1.6	29.1	1.9	1.32	32.5	2250	128
5	77D4-02C07000-W0BK8-00	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.2	29.3	2.0	33.3	2.1	1.48	37.1	3055	162
6	77D4-02C09500-W0BK8-00	2C	95	19	1.1	1.2	30.2	0.05	30.4	1.2	33.0	2.0	37.0	2.2	1.56	41.0	3760	188
7	77D4-02C12000-W0BK8-00	2C	120	19	1.2	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4440	212
8	77D4-02C15000-W0BK8-00	2C	150	19	1.4	1.2	37.3	0.05	37.5	1.3	40.3	2.5	45.3	2.5	1.80	49.7	5645	259
9	77D4-02C18500-W0BK8-00	2C	185	37	1.6	1.4	41.7	0.05	41.9	1.4	44.9	2.5	49.9	2.6	1.88	54.5	6720	297
10	77D4-02C24000-W0BK8-00	2C	240	37	1.7	1.4	46.6	0.05	46.8	1.5	50.0	2.5	55.0	2.8	2.04	59.8	8165	351
11	77D4-02C30000-W0BK8-00	2C	300	37	1.8	1.6	51.7	0.05	51.9	1.6	55.3	2.5	60.3	2.9	2.12	65.3	9830	398
12	77D4-02C40000-W0BK8-00	2C	400	61	2.0	1.6	58.8	0.05	59.0	1.7	62.6	2.5	67.6	3.2	2.36	73.2	12020	493
13	77D4-03C01600-W0BK8-00	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1405	91
14	77D4-03C02500-W0BK8-00	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.2	21.8	1.6	25.0	1.8	1.24	28.2	1830	104
15	77D4-03C03500-W0BK8-00	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.2	24.2	1.6	27.4	1.9	1.32	30.8	2260	121
16	77D4-04C01600-W0BK8-00	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.2	20.0	1.6	23.2	1.8	1.24	26.4	1640	97
17	77D4-05C01600-W0BK8-00-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.2	21.7	1.6	24.9	1.8	1.24	28.1	1880	104
18	77D4-05C02500-W0BK8-00-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.2	26.0	1.6	29.2	1.9	1.32	32.6	2545	128
19	77D4-05C03500-W0BK8-00-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.2	28.9	2.0	32.9	2.1	1.48	36.7	3420	160
20	77D4-05C05000-W0BK8-00-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4315	190
21	77D4-05C07000-W0BK8-00-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	1.2	38.2	2.0	42.2	2.4	1.72	46.4	5595	232
22	77D4-05C09500-W0BK8-00-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	1.3	43.2	2.5	48.2	2.5	1.80	52.6	7510	275
23	77D4-05C12000-W0BK8-00-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	1.4	47.8	2.5	52.8	2.7	1.96	57.6	7965	326

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
														Nom	Min			
1	77D4-02C01600-W0BK8-0A	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.6	20.6	1.8	1.24	23.8	1215	87
2	77D4-02C02500-W0BK8-0A	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.2	20.6	1.6	23.8	1.8	1.24	27.0	1535	100
3	77D4-02C03500-W0BK8-0A	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.2	22.8	1.6	26.0	1.8	1.24	29.2	1835	108
4	77D4-02C05000-W0BK8-0A	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.2	25.9	1.6	29.1	1.9	1.32	32.5	2250	128
5	77D4-02C07000-W0BK8-0A	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.2	29.3	2.0	33.3	2.1	1.48	37.1	3055	162
6	77D4-02C09500-W0BK8-0A	2C	95	19	1.1	1.2	30.2	0.05	30.4	1.2	33.0	2.0	37.0	2.2	1.56	41.0	3760	188
7	77D4-02C12000-W0BK8-0A	2C	120	19	1.2	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4440	212
8	77D4-02C15000-W0BK8-0A	2C	150	19	1.4	1.2	37.3	0.05	37.5	1.3	40.3	2.5	45.3	2.5	1.80	49.7	5645	259
9	77D4-02C18500-W0BK8-0A	2C	185	37	1.6	1.4	41.7	0.05	41.9	1.4	44.9	2.5	49.9	2.6	1.88	54.5	6720	297
10	77D4-02C24000-W0BK8-0A	2C	240	37	1.7	1.4	46.6	0.05	46.8	1.5	50.0	2.5	55.0	2.8	2.04	59.8	8165	351
11	77D4-02C30000-W0BK8-0A	2C	300	37	1.8	1.6	51.7	0.05	51.9	1.6	55.3	2.5	60.3	2.9	2.12	65.3	9830	398
12	77D4-02C40000-W0BK8-0A	2C	400	61	2.0	1.6	58.8	0.05	59.0	1.7	62.6	2.5	67.6	3.2	2.36	73.2	12020	493
13	77D4-03C01600-W0BK8-0A	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1405	91
14	77D4-03C02500-W0BK8-0A	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.2	21.8	1.6	25.0	1.8	1.24	28.2	1830	104
15	77D4-03C03500-W0BK8-0A	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.2	24.2	1.6	27.4	1.9	1.32	30.8	2260	121
16	77D4-04C01600-W0BK8-0A	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.2	20.0	1.6	23.2	1.8	1.24	26.4	1640	97
17	77D4-05C01600-W0BK8-0A-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.2	21.7	1.6	24.9	1.8	1.24	28.1	1880	104
18	77D4-05C02500-W0BK8-0A-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.2	26.0	1.6	29.2	1.9	1.32	32.6	2545	128
19	77D4-05C03500-W0BK8-0A-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.2	28.9	2.0	32.9	2.1	1.48	36.7	3420	160
20	77D4-05C05000-W0BK8-0A-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4315	190
21	77D4-05C07000-W0BK8-0A-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	1.2	38.2	2.0	42.2	2.4	1.72	46.4	5595	232
22	77D4-05C09500-W0BK8-0A-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	1.3	43.2	2.5	48.2	2.5	1.80	52.6	7510	275
23	77D4-05C12000-W0BK8-0A-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	1.4	47.8	2.5	52.8	2.7	1.96	57.6	7965	326

**TABLE: IEC 60332-1-2**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
														Nom	Min			
1	77D4-02C01600-W0BK8-NI	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.6	20.6	1.8	1.24	23.8	1215	87
2	77D4-02C02500-W0BK8-NI	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.2	20.6	1.6	23.8	1.8	1.24	27.0	1535	100
3	77D4-02C03500-W0BK8-NI	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.2	22.8	1.6	26.0	1.8	1.24	29.2	1835	108
4	77D4-02C05000-W0BK8-NI	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.2	25.9	1.6	29.1	1.9	1.32	32.5	2250	128
5	77D4-02C07000-W0BK8-NI	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.2	29.3	2.0	33.3	2.1	1.48	37.1	3055	162
6	77D4-02C09500-W0BK8-NI	2C	95	19	1.1	1.2	30.2	0.05	30.4	1.2	33.0	2.0	37.0	2.2	1.56	41.0	3760	188
7	77D4-02C12000-W0BK8-NI	2C	120	19	1.2	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4440	212
8	77D4-02C15000-W0BK8-NI	2C	150	19	1.4	1.2	37.3	0.05	37.5	1.3	40.3	2.5	45.3	2.5	1.80	49.7	5645	259
9	77D4-02C18500-W0BK8-NI	2C	185	37	1.6	1.4	41.7	0.05	41.9	1.4	44.9	2.5	49.9	2.6	1.88	54.5	6720	297
10	77D4-02C24000-W0BK8-NI	2C	240	37	1.7	1.4	46.6	0.05	46.8	1.5	50.0	2.5	55.0	2.8	2.04	59.8	8165	351
11	77D4-02C30000-W0BK8-NI	2C	300	37	1.8	1.6	51.7	0.05	51.9	1.6	55.3	2.5	60.3	2.9	2.12	65.3	9830	398
12	77D4-02C40000-W0BK8-NI	2C	400	61	2.0	1.6	58.8	0.05	59.0	1.7	62.6	2.5	67.6	3.2	2.36	73.2	12020	493
13	77D4-03C01600-W0BK8-NI	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1405	91
14	77D4-03C02500-W0BK8-NI	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.2	21.8	1.6	25.0	1.8	1.24	28.2	1830	104
15	77D4-03C03500-W0BK8-NI	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.2	24.2	1.6	27.4	1.9	1.32	30.8	2260	121
16	77D4-04C01600-W0BK8-NI	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.2	20.0	1.6	23.2	1.8	1.24	26.4	1640	97
17	77D4-05C01600-W0BK8-NI-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.2	21.7	1.6	24.9	1.8	1.24	28.1	1880	104
18	77D4-05C02500-W0BK8-NI-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.2	26.0	1.6	29.2	1.9	1.32	32.6	2545	128
19	77D4-05C03500-W0BK8-NI-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.2	28.9	2.0	32.9	2.1	1.48	36.7	3420	160
20	77D4-05C05000-W0BK8-NI-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4315	190
21	77D4-05C07000-W0BK8-NI-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	1.2	38.2	2.0	42.2	2.4	1.72	46.4	5595	232
22	77D4-05C09500-W0BK8-NI-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	1.3	43.2	2.5	48.2	2.5	1.80	52.6	7510	275
23	77D4-05C12000-W0BK8-NI-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	1.4	47.8	2.5	52.8	2.7	1.96	57.6	7965	326



**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	77F4-03C02500-W0BK8-00	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1705	95
2	77F4-03C03500-W0BK8-00	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.2	21.2	1.6	24.4	1.9	1.32	27.8	2080	108
3	77F4-03C05000-W0BK8-00	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.2	24.0	1.6	27.2	2.0	1.40	30.8	2605	127
4	77F4-03C07000-W0BK8-00	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3625	153
5	77F4-03C09500-W0BK8-00	3C	95	19	1.1	1.2	27.5	0.05	27.7	1.2	30.4	2.0	34.4	2.3	1.64	38.4	4475	183
6	77F4-03C12000-W0BK8-00	3C	120	19	1.2	1.2	30.5	0.05	30.7	1.3	33.5	2.5	38.5	2.4	1.72	42.7	5725	213
7	77F4-03C15000-W0BK8-00	3C	150	19	1.4	1.4	34.4	0.05	34.6	1.3	37.4	2.5	42.4	2.6	1.88	47.0	6865	254
8	77F4-03C18500-W0BK8-00	3C	185	37	1.6	1.4	38.0	0.05	38.2	1.4	41.2	2.5	46.2	2.7	1.96	51.0	8110	287
9	77F4-03C24000-W0BK8-00	3C	240	37	1.7	1.6	42.7	0.05	42.9	1.5	46.1	2.5	51.1	2.9	2.12	56.1	10160	339
10	77F4-03C30000-W0BK8-00	3C	300	37	1.8	1.6	46.9	0.05	47.1	1.6	50.5	2.5	55.5	3.1	2.28	60.9	12355	394
11	77F4-03C40000-W0BK8-00	3C	400	61	2.0	1.6	53.3	0.05	53.5	1.8	57.3	3.15	63.6	3.4	2.52	69.4	15890	493
12	77F4-04C02500-W0BK8-00	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.9	1.32	28.8	2100	112
13	77F4-04C03500-W0BK8-00	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.2	24.6	1.6	27.8	1.9	1.32	31.2	2580	122
14	77F4-04C05000-W0BK8-00	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.1	1.48	35.9	3510	156
15	77F4-04C07000-W0BK8-00	4C	70	19	1.1	1.2	29.5	0.05	29.7	1.2	32.3	2.0	36.3	2.2	1.56	40.3	4570	184
16	77F4-04C09500-W0BK8-00	4C	95	19	1.1	1.2	33.0	0.05	33.2	1.3	36.0	2.5	41.0	2.4	1.72	45.2	6085	226
17	77F4-04C12000-W0BK8-00	4C	120	19	1.2	1.4	37.0	0.05	37.2	1.3	40.0	2.5	45.0	2.6	1.88	49.6	7370	269
18	77F4-04C15000-W0BK8-00	4C	150	19	1.4	1.4	41.3	0.05	41.5	1.4	44.5	2.5	49.5	2.7	1.96	54.3	8805	306
19	77F4-04C18500-W0BK8-00	4C	185	37	1.6	1.4	45.7	0.05	45.9	1.5	49.1	2.5	54.1	2.9	2.12	59.1	10465	358
20	77F4-04C24000-W0BK8-00	4C	240	37	1.7	1.6	51.4	0.05	51.6	1.6	55.0	2.5	60.0	3.1	2.28	65.4	13160	425
21	77F4-04C30000-W0BK8-00	4C	300	37	1.8	1.6	56.6	0.05	56.8	1.7	60.4	3.15	66.7	3.3	2.44	72.3	16760	501
22	77F4-04C40000-W0BK8-00	4C	400	61	2.0	1.8	64.9	0.05	65.1	1.9	69.1	3.15	75.4	3.7	2.76	81.8	20795	635

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	77F4-03C02500-W0BK8-0A	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1705	95
2	77F4-03C03500-W0BK8-0A	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.2	21.2	1.6	24.4	1.9	1.32	27.8	2080	108
3	77F4-03C05000-W0BK8-0A	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.2	24.0	1.6	27.2	2.0	1.40	30.8	2605	127
4	77F4-03C07000-W0BK8-0A	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3625	153
5	77F4-03C09500-W0BK8-0A	3C	95	19	1.1	1.2	27.5	0.05	27.7	1.2	30.4	2.0	34.4	2.3	1.64	38.4	4475	183
6	77F4-03C12000-W0BK8-0A	3C	120	19	1.2	1.2	30.5	0.05	30.7	1.3	33.5	2.5	38.5	2.4	1.72	42.7	5725	213
7	77F4-03C15000-W0BK8-0A	3C	150	19	1.4	1.4	34.4	0.05	34.6	1.3	37.4	2.5	42.4	2.6	1.88	47.0	6865	254
8	77F4-03C18500-W0BK8-0A	3C	185	37	1.6	1.4	38.0	0.05	38.2	1.4	41.2	2.5	46.2	2.7	1.96	51.0	8110	287
9	77F4-03C24000-W0BK8-0A	3C	240	37	1.7	1.6	42.7	0.05	42.9	1.5	46.1	2.5	51.1	2.9	2.12	56.1	10160	339
10	77F4-03C30000-W0BK8-0A	3C	300	37	1.8	1.6	46.9	0.05	47.1	1.6	50.5	2.5	55.5	3.1	2.28	60.9	12355	394
11	77F4-03C40000-W0BK8-0A	3C	400	61	2.0	1.6	53.3	0.05	53.5	1.8	57.3	3.15	63.6	3.4	2.52	69.4	15890	493
12	77F4-04C02500-W0BK8-0A	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.9	1.32	28.8	2100	112
13	77F4-04C03500-W0BK8-0A	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.2	24.6	1.6	27.8	1.9	1.32	31.2	2580	122
14	77F4-04C05000-W0BK8-0A	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.1	1.48	35.9	3510	156
15	77F4-04C07000-W0BK8-0A	4C	70	19	1.1	1.2	29.5	0.05	29.7	1.2	32.3	2.0	36.3	2.2	1.56	40.3	4570	184
16	77F4-04C09500-W0BK8-0A	4C	95	19	1.1	1.2	33.0	0.05	33.2	1.3	36.0	2.5	41.0	2.4	1.72	45.2	6085	226
17	77F4-04C12000-W0BK8-0A	4C	120	19	1.2	1.4	37.0	0.05	37.2	1.3	40.0	2.5	45.0	2.6	1.88	49.6	7370	269
18	77F4-04C15000-W0BK8-0A	4C	150	19	1.4	1.4	41.3	0.05	41.5	1.4	44.5	2.5	49.5	2.7	1.96	54.3	8805	306
19	77F4-04C18500-W0BK8-0A	4C	185	37	1.6	1.4	45.7	0.05	45.9	1.5	49.1	2.5	54.1	2.9	2.12	59.1	10465	358
20	77F4-04C24000-W0BK8-0A	4C	240	37	1.7	1.6	51.4	0.05	51.6	1.6	55.0	2.5	60.0	3.1	2.28	65.4	13160	425
21	77F4-04C30000-W0BK8-0A	4C	300	37	1.8	1.6	56.6	0.05	56.8	1.7	60.4	3.15	66.7	3.3	2.44	72.3	16760	501
22	77F4-04C40000-W0BK8-0A	4C	400	61	2.0	1.8	64.9	0.05	65.1	1.9	69.1	3.15	75.4	3.7	2.76	81.8	20795	635

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	77F4-03C02500-W0BK8-NI	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1705	95
2	77F4-03C03500-W0BK8-NI	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.2	21.2	1.6	24.4	1.9	1.32	27.8	2080	108
3	77F4-03C05000-W0BK8-NI	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.2	24.0	1.6	27.2	2.0	1.40	30.8	2605	127
4	77F4-03C07000-W0BK8-NI	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3625	153
5	77F4-03C09500-W0BK8-NI	3C	95	19	1.1	1.2	27.5	0.05	27.7	1.2	30.4	2.0	34.4	2.3	1.64	38.4	4475	183
6	77F4-03C12000-W0BK8-NI	3C	120	19	1.2	1.2	30.5	0.05	30.7	1.3	33.5	2.5	38.5	2.4	1.72	42.7	5725	213
7	77F4-03C15000-W0BK8-NI	3C	150	19	1.4	1.4	34.4	0.05	34.6	1.3	37.4	2.5	42.4	2.6	1.88	47.0	6865	254
8	77F4-03C18500-W0BK8-NI	3C	185	37	1.6	1.4	38.0	0.05	38.2	1.4	41.2	2.5	46.2	2.7	1.96	51.0	8110	287
9	77F4-03C24000-W0BK8-NI	3C	240	37	1.7	1.6	42.7	0.05	42.9	1.5	46.1	2.5	51.1	2.9	2.12	56.1	10160	339
10	77F4-03C30000-W0BK8-NI	3C	300	37	1.8	1.6	46.9	0.05	47.1	1.6	50.5	2.5	55.5	3.1	2.28	60.9	12355	394
11	77F4-03C40000-W0BK8-NI	3C	400	61	2.0	1.6	53.3	0.05	53.5	1.8	57.3	3.15	63.6	3.4	2.52	69.4	15890	493
12	77F4-04C02500-W0BK8-NI	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.9	1.32	28.8	2100	112
13	77F4-04C03500-W0BK8-NI	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.2	24.6	1.6	27.8	1.9	1.32	31.2	2580	122
14	77F4-04C05000-W0BK8-NI	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.1	1.48	35.9	3510	156
15	77F4-04C07000-W0BK8-NI	4C	70	19	1.1	1.2	29.5	0.05	29.7	1.2	32.3	2.0	36.3	2.2	1.56	40.3	4570	184
16	77F4-04C09500-W0BK8-NI	4C	95	19	1.1	1.2	33.0	0.05	33.2	1.3	36.0	2.5	41.0	2.4	1.72	45.2	6085	226
17	77F4-04C12000-W0BK8-NI	4C	120	19	1.2	1.4	37.0	0.05	37.2	1.3	40.0	2.5	45.0	2.6	1.88	49.6	7370	269
18	77F4-04C15000-W0BK8-NI	4C	150	19	1.4	1.4	41.3	0.05	41.5	1.4	44.5	2.5	49.5	2.7	1.96	54.3	8805	306
19	77F4-04C18500-W0BK8-NI	4C	185	37	1.6	1.4	45.7	0.05	45.9	1.5	49.1	2.5	54.1	2.9	2.12	59.1	10465	358
20	77F4-04C24000-W0BK8-NI	4C	240	37	1.7	1.6	51.4	0.05	51.6	1.6	55.0	2.5	60.0	3.1	2.28	65.4	13160	425
21	77F4-04C30000-W0BK8-NI	4C	300	37	1.8	1.6	56.6	0.05	56.8	1.7	60.4	3.15	66.7	3.3	2.44	72.3	16760	501
22	77F4-04C40000-W0BK8-NI	4C	400	61	2.0	1.8	64.9	0.05	65.1	1.9	69.1	3.15	75.4	3.7	2.76	81.8	20795	635

## CONTROL, MULTI CORE SCREENED ARMoured CABLE

CU/XLPE/PVC/CUT/PVC/GSWA/PVC  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings.

### CONSTRUCTION

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C & Above: Black cores with number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Flame retardant PVC compatible to conductor operating temperature in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Bedding	Flame retardant PVC compatible to conductor operating temperature in Black color.
Armour	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath***	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black
Marking on the sheath	Example - CU/XLPE/GSWA/PVC SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.

\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-02C00150-W0BK8-00	2	1.5	7	0.7	1.0	8.6	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	465	57
2	7714-03C00150-W0BK8-00	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	500	59
3	7714-04C00150-W0BK8-00	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	14.9	1.8	1.24	18.1	635	64
4	7714-05C00150-W0BK8-00	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	695	68
5	7714-06C00150-W0BK8-00	6	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	755	72
6	7714-07C00150-W0BK8-00	7	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	775	72
7	7714-08C00150-W0BK8-00	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.2	15.5	1.25	18.0	1.8	1.24	21.2	850	77
8	7714-10C00150-W0BK8-00	10	1.5	7	0.7	1.0	14.4	0.05	14.6	1.2	17.2	1.25	19.7	1.8	1.24	22.9	970	83
9	7714-12C00150-W0BK8-00	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.2	17.6	1.6	20.8	1.8	1.24	24.0	1145	88
10	7714-14C00150-W0BK8-00	14	1.5	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1215	91
11	7714-15C00150-W0BK8-00	15	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1290	95
12	7714-16C00150-W0BK8-00	16	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1310	95
13	7714-18C00150-W0BK8-00	18	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1385	98
14	7714-19C00150-W0BK8-00	19	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1405	98
15	7714-20C00150-W0BK8-00	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.2	21.1	1.6	24.3	1.8	1.24	27.5	1470	102
16	7714-22C00150-W0BK8-00	22	1.5	7	0.7	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.8	1.24	28.6	1570	106
17	7714-24C00150-W0BK8-00	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1655	110
18	7714-25C00150-W0BK8-00	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1675	110
19	7714-26C00150-W0BK8-00	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1695	110
20	7714-30C00150-W0BK8-00	30	1.5	7	0.7	1.0	21.6	0.05	21.8	1.2	24.4	1.6	27.6	1.9	1.32	31.0	1850	122
21	7714-32C00150-W0BK8-00	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.2	25.2	1.6	28.4	1.9	1.32	31.8	1920	125
22	7714-35C00150-W0BK8-00	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2030	129
23	7714-36C00150-W0BK8-00	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2050	129
24	7714-40C00150-W0BK8-00	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.6	30.3	2.0	1.40	33.9	2200	140
25	7714-50C00150-W0BK8-00	50	1.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	2790	166
26	7714-61C00150-W0BK8-00	61	1.5	7	0.7	1.2	29.7	0.05	29.9	1.2	32.5	2.0	36.5	2.2	1.56	40.5	3200	185
27	7714-02C00250-W0BK8-00	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	575	60
28	7714-03C00250-W0BK8-00	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	650	65
29	7714-04C00250-W0BK8-00	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	720	69
30	7714-05C00250-W0BK8-00	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	790	72
31	7714-06C00250-W0BK8-00	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	865	76
32	7714-07C00250-W0BK8-00	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	895	76

**TABLE: IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
33	7714-08C00250-W0BK8-00	8	2.5	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	990	83
34	7714-10C00250-W0BK8-00	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.2	18.8	1.60	22.0	1.8	1.24	25.2	1260	93
35	7714-12C00250-W0BK8-00	12	2.5	7	0.7	1.0	16.6	0.05	16.8	1.2	19.4	1.60	22.6	1.8	1.24	25.8	1345	95
36	7714-14C00250-W0BK8-00	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.60	23.4	1.8	1.24	26.6	1450	98
37	7714-15C00250-W0BK8-00	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1520	102
38	7714-16C00250-W0BK8-00	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1550	102
39	7714-18C00250-W0BK8-00	18	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1665	106
40	7714-19C00250-W0BK8-00	19	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1695	106
41	7714-20C00250-W0BK8-00	20	2.5	7	0.7	1.0	20.6	0.05	20.8	1.2	23.4	1.60	26.6	1.8	1.24	29.8	1780	111
42	7714-22C00250-W0BK8-00	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.2	24.5	1.60	27.7	1.9	1.32	31.1	1905	122
43	7714-24C00250-W0BK8-00	24	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2025	127
44	7714-25C00250-W0BK8-00	25	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2055	127
45	7714-26C00250-W0BK8-00	26	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2085	127
46	7714-30C00250-W0BK8-00	30	2.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.60	30.3	2.0	1.40	33.9	2295	140
47	7714-32C00250-W0BK8-00	32	2.5	7	0.7	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.0	1.40	35.7	2605	148
48	7714-35C00250-W0BK8-00	35	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2785	161
49	7714-36C00250-W0BK8-00	36	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2810	161
50	7714-40C00250-W0BK8-00	40	2.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3000	166
51	7714-50C00250-W0BK8-00	50	2.5	7	0.7	1.2	31.3	0.05	31.5	1.2	34.1	2.0	38.1	2.2	1.56	42.1	3560	193
52	7714-61C00250-W0BK8-00	61	2.5	7	0.7	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4005	212



**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
														Nom	Min			
1	7714-02C00150-W0BK8-0A	2	1.5	7	0.7	1.0	8.6	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	465	57
2	7714-03C00150-W0BK8-0A	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	500	59
3	7714-04C00150-W0BK8-0A	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	14.9	1.8	1.24	18.1	635	64
4	7714-05C00150-W0BK8-0A	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	695	68
5	7714-06C00150-W0BK8-0A	6	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	755	72
6	7714-07C00150-W0BK8-0A	7	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	775	72
7	7714-08C00150-W0BK8-0A	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.2	15.5	1.25	18.0	1.8	1.24	21.2	850	77
8	7714-10C00150-W0BK8-0A	10	1.5	7	0.7	1.0	14.4	0.05	14.6	1.2	17.2	1.25	19.7	1.8	1.24	22.9	970	83
9	7714-12C00150-W0BK8-0A	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.2	17.6	1.6	20.8	1.8	1.24	24.0	1145	88
10	7714-14C00150-W0BK8-0A	14	1.5	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1215	91
11	7714-15C00150-W0BK8-0A	15	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1290	95
12	7714-16C00150-W0BK8-0A	16	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1310	95
13	7714-18C00150-W0BK8-0A	18	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1385	98
14	7714-19C00150-W0BK8-0A	19	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1405	98
15	7714-20C00150-W0BK8-0A	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.2	21.1	1.6	24.3	1.8	1.24	27.5	1470	102
16	7714-22C00150-W0BK8-0A	22	1.5	7	0.7	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.8	1.24	28.6	1570	106
17	7714-24C00150-W0BK8-0A	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1655	110
18	7714-25C00150-W0BK8-0A	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1675	110
19	7714-26C00150-W0BK8-0A	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1695	110
20	7714-30C00150-W0BK8-0A	30	1.5	7	0.7	1.0	21.6	0.05	21.8	1.2	24.4	1.6	27.6	1.9	1.32	31.0	1850	122
21	7714-32C00150-W0BK8-0A	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.2	25.2	1.6	28.4	1.9	1.32	31.8	1920	125
22	7714-35C00150-W0BK8-0A	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2030	129
23	7714-36C00150-W0BK8-0A	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2050	129
24	7714-40C00150-W0BK8-0A	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.6	30.3	2.0	1.40	33.9	2200	140
25	7714-50C00150-W0BK8-0A	50	1.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	2790	166
26	7714-61C00150-W0BK8-0A	61	1.5	7	0.7	1.2	29.7	0.05	29.9	1.2	32.5	2.0	36.5	2.2	1.56	40.5	3200	185
27	7714-02C00250-W0BK8-0A	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	575	60
28	7714-03C00250-W0BK8-0A	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	650	65
29	7714-04C00250-W0BK8-0A	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	720	69
30	7714-05C00250-W0BK8-0A	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	790	72
31	7714-06C00250-W0BK8-0A	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	865	76
32	7714-07C00250-W0BK8-0A	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	895	76
33	7714-08C00250-W0BK8-0A	8	2.5	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	990	83

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
														Nom	Min			
33	7714-10C00250-W0BK8-0A	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.2	18.8	1.60	22.0	1.8	1.24	25.2	1260	93
34	7714-12C00250-W0BK8-0A	12	2.5	7	0.7	1.0	16.6	0.05	16.8	1.2	19.4	1.60	22.6	1.8	1.24	25.8	1345	95
35	7714-14C00250-W0BK8-0A	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.60	23.4	1.8	1.24	26.6	1450	98
36	7714-15C00250-W0BK8-0A	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1520	102
37	7714-16C00250-W0BK8-0A	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1550	102
38	7714-18C00250-W0BK8-0A	18	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1665	106
39	7714-19C00250-W0BK8-0A	19	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1695	106
40	7714-20C00250-W0BK8-0A	20	2.5	7	0.7	1.0	20.6	0.05	20.8	1.2	23.4	1.60	26.6	1.8	1.24	29.8	1780	111
41	7714-22C00250-W0BK8-0A	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.2	24.5	1.60	27.7	1.9	1.32	31.1	1905	122
42	7714-24C00250-W0BK8-0A	24	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2025	127
43	7714-25C00250-W0BK8-0A	25	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2055	127
44	7714-26C00250-W0BK8-0A	26	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2085	127
45	7714-30C00250-W0BK8-0A	30	2.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.60	30.3	2.0	1.40	33.9	2295	140
46	7714-32C00250-W0BK8-0A	32	2.5	7	0.7	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.0	1.40	35.7	2605	148
47	7714-35C00250-W0BK8-0A	35	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2785	161
48	7714-36C00250-W0BK8-0A	36	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2810	161
49	7714-40C00250-W0BK8-0A	40	2.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3000	166
50	7714-50C00250-W0BK8-0A	50	2.5	7	0.7	1.2	31.3	0.05	31.5	1.2	34.1	2.0	38.1	2.2	1.56	42.1	3560	193
51	7714-61C00250-W0BK8-0A	61	2.5	7	0.7	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4005	212



**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-02C00150-W0BK8-NI	2	1.5	7	0.7	1.0	8.6	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	465	57
2	7714-03C00150-W0BK8-NI	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	500	59
3	7714-04C00150-W0BK8-NI	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	14.9	1.8	1.24	18.1	635	64
4	7714-05C00150-W0BK8-NI	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	695	68
5	7714-06C00150-W0BK8-NI	6	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	755	72
6	7714-07C00150-W0BK8-NI	7	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	775	72
7	7714-08C00150-W0BK8-NI	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.2	15.5	1.25	18.0	1.8	1.24	21.2	850	77
8	7714-10C00150-W0BK8-NI	10	1.5	7	0.7	1.0	14.4	0.05	14.6	1.2	17.2	1.25	19.7	1.8	1.24	22.9	970	83
9	7714-12C00150-W0BK8-NI	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.2	17.6	1.6	20.8	1.8	1.24	24.0	1145	88
10	7714-14C00150-W0BK8-NI	14	1.5	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1215	91
11	7714-15C00150-W0BK8-NI	15	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1290	95
12	7714-16C00150-W0BK8-NI	16	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1310	95
13	7714-18C00150-W0BK8-NI	18	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1385	98
14	7714-19C00150-W0BK8-NI	19	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1405	98
15	7714-20C00150-W0BK8-NI	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.2	21.1	1.6	24.3	1.8	1.24	27.5	1470	102
16	7714-22C00150-W0BK8-NI	22	1.5	7	0.7	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.8	1.24	28.6	1570	106
17	7714-24C00150-W0BK8-NI	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1655	110
18	7714-25C00150-W0BK8-NI	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1675	110
19	7714-26C00150-W0BK8-NI	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1695	110
20	7714-30C00150-W0BK8-NI	30	1.5	7	0.7	1.0	21.6	0.05	21.8	1.2	24.4	1.6	27.6	1.9	1.32	31.0	1850	122
21	7714-32C00150-W0BK8-NI	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.2	25.2	1.6	28.4	1.9	1.32	31.8	1920	125
22	7714-35C00150-W0BK8-NI	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2030	129
23	7714-36C00150-W0BK8-NI	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2050	129
24	7714-40C00150-W0BK8-NI	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.6	30.3	2.0	1.40	33.9	2200	140
25	7714-50C00150-W0BK8-NI	50	1.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	2790	166
26	7714-61C00150-W0BK8-NI	61	1.5	7	0.7	1.2	29.7	0.05	29.9	1.2	32.5	2.0	36.5	2.2	1.56	40.5	3200	185
27	7714-02C00250-W0BK8-NI	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	575	60
28	7714-03C00250-W0BK8-NI	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	650	65
29	7714-04C00250-W0BK8-NI	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	720	69
30	7714-05C00250-W0BK8-NI	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	790	72
31	7714-06C00250-W0BK8-NI	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	865	76
32	7714-07C00250-W0BK8-NI	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	895	76
33	7714-08C00250-W0BK8-NI	8	2.5	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	990	83
33	7714-10C00250-W0BK8-NI	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.2	18.8	1.60	22.0	1.8	1.24	25.2	1260	93

**TABLE: IEC 60332-1-2**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
34	7714-12C00250-W0BK8-NI	12	2.5	7	0.7	1.0	16.6	0.05	16.8	1.2	19.4	1.60	22.6	1.8	1.24	25.8	1345	95
36	7714-14C00250-W0BK8-NI	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.60	23.4	1.8	1.24	26.6	1450	98
36	7714-15C00250-W0BK8-NI	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1520	102
37	7714-16C00250-W0BK8-NI	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1550	102
38	7714-18C00250-W0BK8-NI	18	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1665	106
39	7714-19C00250-W0BK8-NI	19	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1695	106
40	7714-20C00250-W0BK8-NI	20	2.5	7	0.7	1.0	20.6	0.05	20.8	1.2	23.4	1.60	26.6	1.8	1.24	29.8	1780	111
41	7714-22C00250-W0BK8-NI	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.2	24.5	1.60	27.7	1.9	1.32	31.1	1905	122
42	7714-24C00250-W0BK8-NI	24	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2025	127
43	7714-25C00250-W0BK8-NI	25	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2055	127
44	7714-26C00250-W0BK8-NI	26	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2085	127
45	7714-30C00250-W0BK8-NI	30	2.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.60	30.3	2.0	1.40	33.9	2295	140
46	7714-32C00250-W0BK8-NI	32	2.5	7	0.7	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.0	1.40	35.7	2605	148
47	7714-35C00250-W0BK8-NI	35	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2785	161
48	7714-36C00250-W0BK8-NI	36	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2810	161
49	7714-40C00250-W0BK8-NI	40	2.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	3000	166
50	7714-50C00250-W0BK8-NI	50	2.5	7	0.7	1.2	31.3	0.05	31.5	1.2	34.1	2.0	38.1	2.2	1.56	42.1	3560	193
51	7714-61C00250-W0BK8-NI	61	2.5	7	0.7	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4005	212



# POWER, MULTI CORE SCREENED ARMoured CABLE

## CU/XLPE/LSZH/CUT/LSZH/GSWA/LSZH

### SPECIFICATION: IEC 60502-1



**APPLICATION**  
Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial building where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black Color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Bedding	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black Color.
Armour	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath***	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/GSWA/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MESC YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request.  
 \*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.  
 \*\*\* Other sheath color available on request.  
 \*\*\*\*Flame Retardant Property of cable will be as per requirement.  
 Other special sheath Materials are also available with IEC 60332-3-22 CAT A/ IEC 60332-3-23 CAT B, UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.  
 The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-02C00150-W0BK8-H0	2C	1.5	7	0.7	1.0	8.4	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	455	57
2	7714-02C00250-W0BK8-H0	2C	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	565	60
3	7714-02C00400-W0BK8-H0	2C	4	7	0.7	1.0	10.2	0.05	10.4	1.2	13.1	1.25	15.5	1.8	1.24	18.7	660	67
4	7714-02C00600-W0BK8-H0	2C	6	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	755	72
5	7714-02C01000-W0BK8-H0	2C	10	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	920	79
6	7714-03C00150-W0BK8-H0	3C	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	490	59
7	7714-03C00250-W0BK8-H0	3C	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	645	65
8	7714-03C00400-W0BK8-H0	3C	4	7	0.7	1.0	10.9	0.05	11.1	1.2	13.7	1.25	16.2	1.8	1.24	19.4	740	70
9	7714-03C00600-W0BK8-H0	3C	6	7	0.7	1.0	12.2	0.05	12.4	1.2	15.0	1.25	17.5	1.8	1.24	20.7	860	75
10	7714-03C01000-W0BK8-H0	3C	10	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	1060	83
11	7714-04C00150-W0BK8-H0	4C	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	15.0	1.8	1.24	18.1	630	64
12	7714-04C00250-W0BK8-H0	4C	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	710	69
13	7714-04C00400-W0BK8-H0	4C	4	7	0.7	1.0	11.9	0.05	12.1	1.2	14.7	1.25	17.2	1.8	1.24	20.4	825	74
14	7714-04C00600-W0BK8-H0	4C	6	7	0.7	1.0	13.3	0.05	13.5	1.2	16.1	1.25	18.6	1.8	1.24	21.8	965	79
15	7714-04C01000-W0BK8-H0	4C	10	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1350	91
16	7714-05C00150-W0BK8-H0-02	5C	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	690	68
17	7714-05C00250-W0BK8-H0-02	5C	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	780	72
18	7714-05C00400-W0BK8-H0-02	5C	4	7	0.7	1.0	13.0	0.05	13.2	1.2	15.8	1.25	18.3	1.8	1.24	21.5	920	78
19	7714-05C00600-W0BK8-H0-02	5C	6	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.25	19.9	1.8	1.24	23.1	1085	84
20	7714-05C01000-W0BK8-H0-02	5C	10	7	0.7	1.0	17.1	0.05	17.3	1.2	19.9	1.6	23.1	1.8	1.24	26.3	1530	97

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	77D4-02C01600-W0BK8-H0	2C	16	7	0.7	1.0	14.6	0.05	14.8	1.2	17.4	1.6	20.6	1.8	1.24	23.8	1200	87
2	77D4-02C02500-W0BK8-H0	2C	25	7	0.9	1.0	17.8	0.05	18.0	1.2	20.6	1.6	23.8	1.8	1.24	27.0	1525	100
3	77D4-02C03500-W0BK8-H0	2C	35	7	0.9	1.0	20.0	0.05	20.2	1.2	22.8	1.6	26.0	1.8	1.24	29.2	1820	108
4	77D4-02C05000-W0BK8-H0	2C	50	19	1.0	1.0	23.1	0.05	23.3	1.2	25.9	1.6	29.1	1.9	1.32	32.5	2235	128
5	77D4-02C07000-W0BK8-H0	2C	70	19	1.1	1.0	26.5	0.05	26.7	1.2	29.3	2.0	33.3	2.1	1.48	37.1	3035	162
6	77D4-02C09500-W0BK8-H0	2C	95	19	1.1	1.2	30.2	0.05	30.4	1.2	33.0	2.0	37.0	2.2	1.56	41.0	3735	188
7	77D4-02C12000-W0BK8-H0	2C	120	19	1.2	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	4415	212
8	77D4-02C15000-W0BK8-H0	2C	150	19	1.4	1.2	37.3	0.05	37.5	1.3	40.3	2.5	45.3	2.5	1.80	49.7	5615	259
9	77D4-02C18500-W0BK8-H0	2C	185	37	1.6	1.4	41.7	0.05	41.9	1.4	44.9	2.5	49.9	2.6	1.88	54.5	6680	297
10	77D4-02C24000-W0BK8-H0	2C	240	37	1.7	1.4	46.6	0.05	46.8	1.5	50.0	2.5	55.0	2.8	2.04	59.8	8120	351
11	77D4-02C30000-W0BK8-H0	2C	300	37	1.8	1.6	51.7	0.05	51.9	1.6	55.3	2.5	60.3	2.9	2.12	65.3	9780	398
12	77D4-02C40000-W0BK8-H0	2C	400	61	2.0	1.6	58.8	0.05	59.0	1.7	62.6	2.5	67.6	3.2	2.36	73.2	11955	493
13	77D4-03C01600-W0BK8-H0	3C	16	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1390	91
14	77D4-03C02500-W0BK8-H0	3C	25	7	0.9	1.0	19.0	0.05	19.2	1.2	21.8	1.6	25.0	1.8	1.24	28.2	1815	104
15	77D4-03C03500-W0BK8-H0	3C	35	7	0.9	1.0	21.4	0.05	21.6	1.2	24.2	1.6	27.4	1.9	1.32	30.8	2240	121
16	77D4-04C01600-W0BK8-H0	4C	16	7	0.7	1.0	17.2	0.05	17.4	1.2	20.0	1.6	23.2	1.8	1.24	26.4	1630	97
17	77D4-05C01600-W0BK8-H0-02	5C	16	7	0.7	1.0	18.9	0.05	19.1	1.2	21.7	1.6	24.9	1.8	1.24	28.1	1865	104
18	77D4-05C02500-W0BK8-H0-02	5C	25	7	0.9	1.0	23.2	0.05	23.4	1.2	26.0	1.6	29.2	1.9	1.32	32.6	2530	128
19	77D4-05C03500-W0BK8-H0-02	5C	35	7	0.9	1.0	26.1	0.05	26.3	1.2	28.9	2.0	32.9	2.1	1.48	36.7	3395	160
20	77D4-05C05000-W0BK8-H0-02	5C	50	19	1.0	1.2	30.7	0.05	30.9	1.2	33.5	2.0	37.5	2.2	1.56	41.5	4290	190
21	77D4-05C07000-W0BK8-H0-02	5C	70	19	1.1	1.2	35.4	0.05	35.6	1.2	38.2	2.0	42.2	2.4	1.72	46.4	5565	232
22	77D4-05C09500-W0BK8-H0-02	5C	95	19	1.1	1.4	40.2	0.05	40.4	1.3	43.2	2.5	48.2	2.5	1.80	52.6	7475	275
23	77D4-05C12000-W0BK8-H0-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	1.4	47.8	2.5	52.8	2.7	1.96	57.6	7925	326

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	77F4-03C02500-W0BK8-H0	3C	25	7	0.9	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1690	95
2	77F4-03C03500-W0BK8-H0	3C	35	7	0.9	1.0	18.4	0.05	18.6	1.2	21.2	1.6	24.4	1.9	1.32	27.8	2065	108
3	77F4-03C05000-W0BK8-H0	3C	50	19	1.0	1.0	21.2	0.05	21.4	1.2	24.0	1.6	27.2	2.0	1.40	30.8	2590	127
4	77F4-03C07000-W0BK8-H0	3C	70	19	1.1	1.2	24.7	0.05	24.9	1.2	27.5	2.0	31.5	2.1	1.48	35.3	3605	153
5	77F4-03C09500-W0BK8-H0	3C	95	19	1.1	1.2	27.5	0.05	27.7	1.2	30.4	2.0	34.4	2.3	1.64	38.4	4450	183
6	77F4-03C12000-W0BK8-H0	3C	120	19	1.2	1.2	30.5	0.05	30.7	1.3	33.5	2.5	38.5	2.4	1.72	42.7	5700	213
7	77F4-03C15000-W0BK8-H0	3C	150	19	1.4	1.4	34.4	0.05	34.6	1.3	37.4	2.5	42.4	2.6	1.88	47.0	6835	254
8	77F4-03C18500-W0BK8-H0	3C	185	37	1.6	1.4	38.0	0.05	38.2	1.4	41.2	2.5	46.2	2.7	1.96	51.0	8075	287
9	77F4-03C24000-W0BK8-H0	3C	240	37	1.7	1.6	42.7	0.05	42.9	1.5	46.1	2.5	51.1	2.9	2.12	56.1	10120	339
10	77F4-03C30000-W0BK8-H0	3C	300	37	1.8	1.6	46.9	0.05	47.1	1.6	50.5	2.5	55.5	3.1	2.28	60.9	12305	394
11	77F4-03C40000-W0BK8-H0	3C	400	61	2.0	1.6	53.3	0.05	53.5	1.8	57.3	3.15	63.6	3.4	2.52	69.4	15830	493
12	77F4-04C02500-W0BK8-H0	4C	25	7	0.9	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.9	1.32	28.8	2085	112
13	77F4-04C03500-W0BK8-H0	4C	35	7	0.9	1.0	21.8	0.05	22.0	1.2	24.6	1.6	27.8	1.9	1.32	31.2	2565	122
14	77F4-04C05000-W0BK8-H0	4C	50	19	1.0	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.1	1.48	35.9	3490	156
15	77F4-04C07000-W0BK8-H0	4C	70	19	1.1	1.2	29.5	0.05	29.7	1.2	32.3	2.0	36.3	2.2	1.56	40.3	4545	184
16	77F4-04C09500-W0BK8-H0	4C	95	19	1.1	1.2	33.0	0.05	33.2	1.3	36.0	2.5	41.0	2.4	1.72	45.2	6055	226
17	77F4-04C12000-W0BK8-H0	4C	120	19	1.2	1.4	37.0	0.05	37.2	1.3	40.0	2.5	45.0	2.6	1.88	49.6	7335	269
18	77F4-04C15000-W0BK8-H0	4C	150	19	1.4	1.4	41.3	0.05	41.5	1.4	44.5	2.5	49.5	2.7	1.96	54.3	8765	306
19	77F4-04C18500-W0BK8-H0	4C	185	37	1.6	1.4	45.7	0.05	45.9	1.5	49.1	2.5	54.1	2.9	2.12	59.1	10420	358
20	77F4-04C24000-W0BK8-H0	4C	240	37	1.7	1.6	51.4	0.05	51.6	1.6	55.0	2.5	60.0	3.1	2.28	65.4	13110	425
21	77F4-04C30000-W0BK8-H0	4C	300	37	1.8	1.6	56.6	0.05	56.8	1.7	60.4	3.15	66.7	3.3	2.44	72.3	16700	501
22	77F4-04C40000-W0BK8-H0	4C	400	61	2.0	1.8	64.9	0.05	65.1	1.9	69.1	3.15	75.4	3.7	2.76	81.8	20715	635
23	77D4-05C12000-W0BK8-H0-02	5C	120	19	1.2	1.4	44.6	0.05	44.8	1.4	47.8	2.5	52.8	2.7	1.96	57.6	7925	326



# CONTROL, MULTI CORE SCREENED ARMoured CABLE

## CU/XLPE/LSZH/CUT/LSZH/GSWA/LSZH

### SPECIFICATION: IEC 60502-1



**APPLICATION** Can be used indoors or outdoors in the cable duct, cable trays, conduits or in power and switching stations, local distribution systems, variable frequency drive (VFD), auxiliary connection, industrial plants and commercial buildings where low smoke and reduced toxic/corrosive gas emission during combustion are critical.

### CONSTRUCTION

Conductor	Stranded annealed plain copper Class 2 of IEC 60228.
Insulation	Cross linked Polyethylene (XLPE) to IEC-60502-1.
Color Code*	2 Core: Red & Black. 3 Core: Red, Yellow & Blue. 4 Core: Red, Yellow, Blue & Black. 5C & Above: Black cores with number printing
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color.
Metallic Screen**	The screen shall consist of copper tape (50µm) applied helically over the inner covering for 100% coverage and with a suitable overlap.
Bedding	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 in Black color.
Armour	A single layer of galvanized steel wire armor to IEC 60502-1 is applied over the inner sheath.
Outer Sheath***	Low Smoke Zero Halogen (LSZH) Compound Type ST-8 as per IEC 60502-1. The color of the sheath shall be Black.
Marking on the sheath	Example - CU/XLPE/GSWA/LSZH SCREENED NO. OF CORES X SIZE 600/1000V MES C YEAR IEC 60502-1 IEC 60332-1**** LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 VRMS / 5 or 8400 VDC / 5
Halogen Acid Gas	IEC 60754-1 (≤ 0.5%) IEC 60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)

\*Other Insulation color available on request. Cable more than five core and above, last core with protective earth (PE) is available on request and with color Green/Yellow stripe.

\*\*Copper tape with thickness 0.075/0.10/0.12mm are also available on request.

\*\*\* Other sheath color available on request.

\*\*\*\*Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with IEC 60332-3-22 (CAT A)/ IEC 60332-3-23 (CAT B), UV/Sunlight resistance, Anti-Termite/Anti-Rodent & Oil resistance.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MES C MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
														Nom	Min			
1	7714-02C00150-W0BK8-H0	2	1.5	7	0.7	1.0	8.6	0.05	8.6	1.2	11.2	0.9	13.0	1.8	1.24	16.2	455	57
2	7714-03C00150-W0BK8-H0	3	1.5	7	0.7	1.0	8.9	0.05	9.1	1.2	11.7	0.9	13.5	1.8	1.24	16.7	490	59
3	7714-04C00150-W0BK8-H0	4	1.5	7	0.7	1.0	9.6	0.05	9.8	1.2	12.4	1.25	14.9	1.8	1.24	18.1	630	64
4	7714-05C00150-W0BK8-H0	5	1.5	7	0.7	1.0	10.5	0.05	10.7	1.2	13.3	1.25	15.8	1.8	1.24	19.0	690	68
5	7714-06C00150-W0BK8-H0	6	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	745	72
6	7714-07C00150-W0BK8-H0	7	1.5	7	0.7	1.0	11.4	0.05	11.6	1.2	14.2	1.25	16.7	1.8	1.24	19.9	765	72
7	7714-08C00150-W0BK8-H0	8	1.5	7	0.7	1.0	12.7	0.05	12.9	1.2	15.5	1.25	18.0	1.8	1.24	21.2	840	77
8	7714-10C00150-W0BK8-H0	10	1.5	7	0.7	1.0	14.4	0.05	14.6	1.2	17.2	1.25	19.7	1.8	1.24	22.9	960	83
9	7714-12C00150-W0BK8-H0	12	1.5	7	0.7	1.0	14.8	0.05	15.0	1.2	17.6	1.6	20.8	1.8	1.24	24.0	1130	88
10	7714-14C00150-W0BK8-H0	14	1.5	7	0.7	1.0	15.6	0.05	15.8	1.2	18.4	1.6	21.6	1.8	1.24	24.8	1205	91
11	7714-15C00150-W0BK8-H0	15	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1280	95
12	7714-16C00150-W0BK8-H0	16	1.5	7	0.7	1.0	16.5	0.05	16.7	1.2	19.3	1.6	22.5	1.8	1.24	25.7	1300	95
13	7714-18C00150-W0BK8-H0	18	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1370	98
14	7714-19C00150-W0BK8-H0	19	1.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.6	23.4	1.8	1.24	26.6	1390	98
15	7714-20C00150-W0BK8-H0	20	1.5	7	0.7	1.0	18.3	0.05	18.5	1.2	21.1	1.6	24.3	1.8	1.24	27.5	1460	102
16	7714-22C00150-W0BK8-H0	22	1.5	7	0.7	1.0	19.4	0.05	19.6	1.2	22.2	1.6	25.4	1.8	1.24	28.6	1555	106
17	7714-24C00150-W0BK8-H0	24	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1640	110
18	7714-25C00150-W0BK8-H0	25	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1660	110
19	7714-26C00150-W0BK8-H0	26	1.5	7	0.7	1.0	20.3	0.05	20.5	1.2	23.1	1.6	26.3	1.8	1.24	29.5	1680	110
20	7714-30C00150-W0BK8-H0	30	1.5	7	0.7	1.0	21.6	0.05	21.8	1.2	24.4	1.6	27.6	1.9	1.32	31.0	1835	122
21	7714-32C00150-W0BK8-H0	32	1.5	7	0.7	1.0	22.4	0.05	22.6	1.2	25.2	1.6	28.4	1.9	1.32	31.8	1905	125
22	7714-35C00150-W0BK8-H0	35	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2015	129
23	7714-36C00150-W0BK8-H0	36	1.5	7	0.7	1.0	23.3	0.05	23.5	1.2	26.1	1.6	29.3	1.9	1.32	32.7	2035	129
24	7714-40C00150-W0BK8-H0	40	1.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.6	30.3	2.0	1.40	33.9	2180	140
25	7714-50C00150-W0BK8-H0	50	1.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	2770	166
26	7714-61C00150-W0BK8-H0	61	1.5	7	0.7	1.2	29.7	0.05	29.9	1.2	32.5	2.0	36.5	2.2	1.56	40.5	3180	185
27	7714-02C00250-W0BK8-H0	2	2.5	7	0.7	1.0	9.2	0.05	9.4	1.2	12.0	0.9	13.8	1.8	1.24	17.0	565	60
28	7714-03C00250-W0BK8-H0	3	2.5	7	0.7	1.0	9.8	0.05	10.0	1.2	12.6	1.25	15.1	1.8	1.24	18.3	640	65
29	7714-04C00250-W0BK8-H0	4	2.5	7	0.7	1.0	10.7	0.05	10.9	1.2	13.5	1.25	16.0	1.8	1.24	19.2	710	69
30	7714-05C00250-W0BK8-H0	5	2.5	7	0.7	1.0	11.6	0.05	11.8	1.2	14.4	1.25	16.9	1.8	1.24	20.1	780	72
31	7714-06C00250-W0BK8-H0	6	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	860	76
32	7714-07C00250-W0BK8-H0	7	2.5	7	0.7	1.0	12.6	0.05	12.8	1.2	15.4	1.25	17.9	1.8	1.24	21.1	885	76



**TABLE: IEC 60332-1-2 & IEC 60332-3-24 (CAT C)**  
NON-COMPACTED CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (MM)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (mm)	METALLIC SCREEN THICKNESS (mm)	APPROX. DIA OVER METALLIC SCREEN (mm)	BEDDING THICKNESS (mm)	APPROX. DIA. OVER BEDDING (mm)	ARMOUR WIRE DIA. (mm)	APPROX. DIA. OVER ARMOUR (mm)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
														Nom	Min			
1	7714-08C00250-W0BK8-H0	8	2.5	7	0.7	1.0	14.2	0.05	14.4	1.2	17.0	1.25	19.5	1.8	1.24	22.7	980	83
2	7714-10C00250-W0BK8-H0	10	2.5	7	0.7	1.0	16.0	0.05	16.2	1.2	18.8	1.60	22.0	1.8	1.24	25.2	1245	93
3	7714-12C00250-W0BK8-H0	12	2.5	7	0.7	1.0	16.6	0.05	16.8	1.2	19.4	1.60	22.6	1.8	1.24	25.8	1335	95
4	7714-14C00250-W0BK8-H0	14	2.5	7	0.7	1.0	17.4	0.05	17.6	1.2	20.2	1.60	23.4	1.8	1.24	26.6	1440	98
5	7714-15C00250-W0BK8-H0	15	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1505	102
6	7714-16C00250-W0BK8-H0	16	2.5	7	0.7	1.0	18.4	0.05	18.6	1.2	21.2	1.60	24.4	1.8	1.24	27.6	1535	102
7	7714-18C00250-W0BK8-H0	18	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1650	106
8	7714-19C00250-W0BK8-H0	19	2.5	7	0.7	1.0	19.5	0.05	19.7	1.2	22.3	1.60	25.5	1.8	1.24	28.7	1680	106
9	7714-20C00250-W0BK8-H0	20	2.5	7	0.7	1.0	20.6	0.05	20.8	1.2	23.4	1.60	26.6	1.8	1.24	29.8	1765	111
10	7714-22C00250-W0BK8-H0	22	2.5	7	0.7	1.0	21.7	0.05	21.9	1.2	24.5	1.60	27.7	1.9	1.32	31.1	1890	122
11	7714-24C00250-W0BK8-H0	24	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2010	127
12	7714-25C00250-W0BK8-H0	25	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2040	127
13	7714-26C00250-W0BK8-H0	26	2.5	7	0.7	1.0	22.9	0.05	23.1	1.2	25.7	1.60	28.9	1.9	1.32	32.3	2065	127
14	7714-30C00250-W0BK8-H0	30	2.5	7	0.7	1.0	24.3	0.05	24.5	1.2	27.1	1.60	30.3	2.0	1.40	33.9	2280	140
15	7714-32C00250-W0BK8-H0	32	2.5	7	0.7	1.0	25.3	0.05	25.5	1.2	28.1	2.0	32.1	2.0	1.40	35.7	2590	148
16	7714-35C00250-W0BK8-H0	35	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2765	161
17	7714-36C00250-W0BK8-H0	36	2.5	7	0.7	1.0	26.3	0.05	26.5	1.2	29.1	2.0	33.1	2.1	1.48	36.9	2790	161
18	7714-40C00250-W0BK8-H0	40	2.5	7	0.7	1.0	27.4	0.05	27.6	1.2	30.2	2.0	34.2	2.1	1.48	38.0	2980	166
19	7714-50C00250-W0BK8-H0	50	2.5	7	0.7	1.2	31.3	0.05	31.5	1.2	34.1	2.0	38.1	2.2	1.56	42.1	3535	193
20	7714-61C00250-W0BK8-H0	61	2.5	7	0.7	1.2	33.5	0.05	33.7	1.2	36.3	2.0	40.3	2.3	1.64	44.3	3980	212

**ELECTRIC CABLE FOR PHOTOVOLTAIC SYSTEM**  
CU/XL-LSHF/XL-LSHF  
SPECIFICATION: BS EN 50618



**APPLICATION** These Low Smoke Halogen Free, flexible, single core Power cable with Cross linked insulation & sheath particularly used in Solar Photovoltaic Energy System suitable for permanent outdoor and under variable climate conditions

**CONSTRUCTION**

Conductor	Flexible annealed tinned copper class 5 as per IEC 60228.
Insulation	Cross Linked Low smoke halogen free according to BSEN 50618.
Outer sheath	Cross Linked Low smoke halogen free according to BSEN 50618.
Printing Text	Example: MESC H1Z2Z2-K 240mm <sup>2</sup> BSEN 50618

**TECHNICAL DATA:**

Operating Temperature	-40°C to 90°C
Voltage Rating	1.5Kv (d.c), 1.0/1.0Kv (a.c)
Voltage Test	6.5kV a.c. 5/min
Current Carrying Capacity	EN50618 Table A.3
Current Rating & Short Circuit	EN 50618 Table A.4
Halogen Acid Gas	EN 50525-2-1 (≤ 0.5%) EN 50525-2-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)
UV Resistance	EN 50289-4-17
Flame Retardant	BSEN 60332-1-2

## ELECTRIC CABLE FOR PHOTOVOLTAIC SYSTEM

### CU/XL-LSHF/XL-LSHF

### SPECIFICATION: IEC 62930



**TABLE:**

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (MM)	OUTER SHEATH THICKNESS (MM)	APPROX. OVERALL DIAMETER (MM)	MINIMUM INSULATION RESISTANCE AT 20°C	MINIMUM INSULATION RESISTANCE AT 90°C	APPROX. WEIGHT (kg/km) (mm)
1	7V9X-01C00150-U0BK8-H0	1.5	0.7	0.8	4.7	860	0.86	34
2	7V9X-01C00250-U0BK8-H0	2.5	0.7	0.8	5.1	690	0.69	45
3	7V9X-01C00400-U0BK8-H0	4	0.7	0.8	5.6	580	0.58	60
4	7V9X-01C00600-U0BK8-H0	6	0.7	0.8	6.2	500	0.50	81
5	7V9X-01C01000-U0BK8-H0	10	0.7	0.8	7.1	420	0.42	122
6	7V9X-01C01600-U0BK8-H0	16	0.7	0.9	9.1	340	0.34	191
7	7V9X-01C02500-U0BK8-H0	25	0.9	1.0	11.2	340	0.34	287
8	7V9X-01C03500-U0BK8-H0	35	0.9	1.1	12.7	290	0.29	394
9	7V9X-01C05000-U0BK8-H0	50	1.0	1.2	14.7	270	0.27	537
10	7V9X-01C07000-U0BK8-H0	70	1.1	1.2	17.1	250	0.25	764
11	7V9X-01C09500-U0BK8-H0	95	1.1	1.3	19.1	220	0.22	988
12	7V9X-01C12000-U0BK8-H0	120	1.2	1.3	21.1	210	0.21	1242
13	7V9X-01C15000-U0BK8-H0	150	1.4	1.4	23.6	210	0.21	1553
14	7V9X-01C18500-U0BK8-H0	185	1.6	1.6	26.5	200	0.20	1947
15	7V9X-01C24000-U0BK8-H0	240	1.7	1.7	29.6	200	0.20	2544

**Available Colors:** "BK" = Black, «RD» = Red and «BR» = Black with Red stripe.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

#### APPLICATION

These Low Smoke Halogen Free, flexible, single core Power cable with Cross linked insulation & sheath particularly used in Solar Photovoltaic Energy System suitable for permanent outdoor and under variable climate conditions

#### CONSTRUCTION

Conductor	Flexible annealed tinned copper class 5 as per IEC 60228.
Insulation	Cross Linked Low smoke halogen free according to IEC 62930.
Outer sheath	Cross Linked Low smoke halogen free according to IEC 62930.
Printing Text	Example: MESC 240mm <sup>2</sup> 62930 IEC 133 HALOGEN FREE LOW SMOKE UAE YEAR

#### TECHNICAL DATA:

Operating Temperature	-40°C to 90°C
Voltage Rating	1.5Kv (d.c), 1.0/1.0Kv (a.c)
Voltage Test	6.5kV a.c. 5/min
Current Carrying Capacity	IEC 62930 Table A.3
Current Rating & Short Circuit	IEC 62930 Table A.4
Halogen Acid Gas	EN 50525-2-1 (≤ 0.5%) EN 50525-2-2 (pH ≥ 4.3 & Conductivity ≤ 10μS/mm)
Smoke Emission	IEC 61034-2 (Light Transmission ≥ 60%)
UV Resistance	EN 50289-4-17
Flame Retardant	BSEN 60332-1-2



**TABLE**

SERIAL NO.	MESC MODEL NO.	SIZE (mm <sup>2</sup> )	INSULATION THICKNESS (MM)	OUTER SHEATH THICKNESS (MM)	APPROX. OVERALL DIAMETER (MM)	MINIMUM INSULATION RESISTANCE AT 20°C	MINIMUM INSULATION RESISTANCE AT 90°C	APPROX. WEIGHT (kg/km) (mm)
1	7V9X-01C00150-U0BK8-H0	1.5	0.7	0.8	4.7	860	0.86	34
2	7V9X-01C00250-U0BK8-H0	2.5	0.7	0.8	5.1	690	0.69	45
3	7V9X-01C00400-U0BK8-H0	4	0.7	0.8	5.6	580	0.58	60
4	7V9X-01C00600-U0BK8-H0	6	0.7	0.8	6.2	500	0.50	81
5	7V9X-01C01000-U0BK8-H0	10	0.7	0.8	7.1	420	0.42	122
6	7V9X-01C01600-U0BK8-H0	16	0.7	0.9	9.1	374	0.374	191
7	7V9X-01C02500-U0BK8-H0	25	0.9	1.0	11.2	384	0.384	287
8	7V9X-01C03500-U0BK8-H0	35	0.9	1.1	12.7	327	0.327	394
9	7V9X-01C05000-U0BK8-H0	50	1.0	1.2	14.7	317	0.317	537
10	7V9X-01C07000-U0BK8-H0	70	1.1	1.2	17.1	291	0.291	764
11	7V9X-01C09500-U0BK8-H0	95	1.1	1.3	19.1	251	0.251	988
12	7V9X-01C12000-U0BK8-H0	120	1.2	1.3	21.1	244	0.244	1242
13	7V9X-01C15000-U0BK8-H0	150	1.4	1.4	23.6	254	0.254	1553
14	7V9X-01C18500-U0BK8-H0	185	1.6	1.6	26.5	261	0.261	1947
15	7V9X-01C24000-U0BK8-H0	240	1.7	1.7	29.6	243	0.243	2544
16	7V9X-01C30000-U0BK8-H0	300	1.8	1.8	32.7	231	0.231	3130
17	7V9X-01C40000-U0BK8-H0	400	2.0	2.0	36.8	227	0.227	3970

**Available Colors:** : "BK" = Black, «RD» = Red and «BR» = Black with Red stripe.

**Packing:** Packing is available in Coil/Reel/Drum with meters/Yards/Feet. Other lengths are available upon request.

## SINGLE & MULTI CORE RUBBER CABLE (H07RN-F)

SPECIFICATION: BS EN 50525-2-21 / BS 7919



### APPLICATION

This heavy duty rubber sheathed cables are suitable for use in dry, damp and wet locations in open air and in workshops having an explosive atmosphere for medium stresses. Suitable for use with industrial and agricultural appliances, heating installations, electric tools and also for transportable motors and machines. Can be used up to 1000 Volts for fixed installation and as rotor connection cable for motors.

### CONSTRUCTION

Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
Insulation	Rubber Type E14 / E16 as per BS EN 50363-1.
Color Code	1C: Black 2C: Blue & Brown 3C: Green, Blue & Brown 4C: Green, Black, Blue & Brown 5C: Green, Black, Blue, Brown & Black
Assembly*	Cores twisted together to make a round assembly. A binder tape is applied over the assembly if required.
Outer Sheath**	Rubber Type EM2 / EM6 as per BS EN 50363-2-1. The colour of the sheath shall be Black.

### DESIGN FEATURES:

Temperature Range	-30°C to 60°C / 85°C
Voltage Rating	450/750 Volts

\*Applicable only for Multi-core cables.

\*\*Other sheath color available on request.

The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

TABLE: IEC 60332-1-2



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (MM2)	INSULATION THICKNESS (MM)	OUTER SHEATH THICKNESS (MM)	APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	CURRENT CARRYING CAPACITY MOBIL USE @ 30°C Amp.	CURRENT CARRYING CAPACITY FIXED INSTALLATION @ 85°C Amp.
1	8185-01C07000-U0BK8-00	1C	70	1.6	2.6	19.4	1057	185	254
2	8185-01C09500-U0BK8-00	1C	95	1.8	2.8	22.1	1381	222	299
3	8185-01C12000-U0BK8-00	1C	120	1.8	3.0	24.4	1711	260	363
4	8185-01C15000-U0BK8-00	1C	150	2.0	3.2	26.6	2111	300	416
5	8185-01C18500-U0BK8-00	1C	185	2.2	3.4	29.7	2574	341	475
6	8185-01C24000-U0BK8-00	1C	240	2.4	3.5	32.6	3273	407	559
7	8185-01C30000-U0BK8-00	1C	300	2.6	3.6	35.6	4022	468	637
8	8185-02C00150-U0BK8-00	2C	1.5	0.8	1.5	9.3	130	16	23
9	8185-02C00250-U0BK8-00	2C	2.5	0.9	1.7	10.6	191	25	32
10	8185-03C00150-U0BK8-00	3C	1.5	0.8	1.6	9.9	160	16	23
11	8185-03C00250-U0BK8-00	3C	2.5	0.9	1.8	11.4	232	25	32
12	8185-03C00400-U0BK8-00	3C	4	1.0	1.9	13.1	329	35	43
13	8185-03C00600-U0BK8-00	3C	6	1.0	2.1	14.6	431	44	56
14	8185-03C01000-U0BK8-00	3C	10	1.2	3.3	20.6	761	60	77
15	8185-03C01600-U0BK8-00	3C	16	1.2	3.5	22.5	1064	82	102
16	8185-03C02500-U0BK8-00	3C	25	1.4	3.8	28.6	1575	109	136
17	8185-03C03500-U0BK8-00	3C	35	1.4	4.1	31.7	2073	135	168
18	8185-04C00150-U0BK8-00	4C	1.5	0.8	1.7	11.0	199	16	21
19	8185-04C00250-U0BK8-00	4C	2.5	0.9	1.9	12.6	292	20	29
20	8185-04C00400-U0BK8-00	4C	4	1.0	2.0	14.5	412	30	38
21	8185-04C00600-U0BK8-00	4C	6	1.0	2.3	16.3	547	37	50
22	8185-04C01000-U0BK8-00	4C	10	1.2	3.4	22.6	945	52	68
23	8185-04C01600-U0BK8-00	4C	16	1.2	3.6	24.7	1323	69	92
24	8185-04C02500-U0BK8-00	4C	25	1.4	4.1	31.8	1999	92	122
25	8185-04C03500-U0BK8-00	4C	35	1.4	4.4	35.2	2638	114	150
26	8185-04C05000-U0BK8-00	4C	50	1.6	4.8	41.1	3635	143	182
27	8185-04C07000-U0BK8-00	4C	70	1.6	5.2	45.0	4866	178	232
28	8185-04C09500-U0BK8-00	4C	95	1.8	5.9	52.0	6406	210	281
29	8185-05C00250-U0BK8-00	5C	2.5	0.9	2.0	13.8	355	20	29
30	8185-05C00400-U0BK8-00	5C	4	1.0	2.2	16.1	510	30	38
31	8185-05C00600-U0BK8-00	5C	6	1.0	2.5	18.1	679	38	50
32	8185-05C01000-U0BK8-00	5C	10	1.2	3.6	24.9	1153	54	68
33	8185-05C01600-U0BK8-00	5C	16	1.2	3.9	27.4	1636	71	92
34	8185-05C02500-U0BK8-00	5C	25	1.4	4.4	35.4	2466	94	122

## MESC PYRO FP 200 FIRE ALARM CABLE

CU/MICA+HFFR-XLPE/LSZH



### APPLICATION

Cable fire resistance (circuit integrity), low smoke, reduced toxic/corrosive gas emission during fire and combustion are critical for use in indoor, outdoor & buildings for fire detection, emergency lightning, fire alarm system circuit and security system.

### CONSTRUCTION

Conductor	Plain annealed copper as per IEC/BSEN 60228.
Insulation	Mica impregnated glass tape + HFFR-XLPE Type EI-5 as per BS EN 50363-5
Color Code	2C: Brown & Blue 3C: Brown, Black & Grey 4C: Blue, Brown, Black & Grey
Assembly*	Cores are assembled in the color sequence as mentioned above and wrapped with polyester binder tape with 20% minimum overlap.
Collective screen	Aluminum Mylar tape (AMT) of thickness 25µm is applied with an overlap of 25%. The metallic side of AMT is in contact with annealed tinned copper drain wire of 0.5mm <sup>2</sup> throughout the longitudinal length. The second layer of glass tape is applied helically with suitable overlap over AMT.
Outer Sheath*	Extruded Flame-retardant Low Smoke Zero Halogen compound LTS-1 to BS 7655-6.1 in Red color.
Printing on the sheath	MESC PYRO FP 200 NO. OF CORES C X ... MM2 300/500V PH120 BS6387 CWZ IEC 60331 IEC 60332-3 YEAR METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to 90°C
Voltage Rating	300/500 Volts
Conductor Resistance Ω/Km at 20°C	IEC/BSEN 60228
Dielectric Strength Test (core to core & core to screen)	2000 VAC or 5000 VDC for 1 minute

### FLAME & FIRE CHARACTERISTICS:

Flame Retardant	IEC60332-1, IEC60332-3-22 & 24
Fire Resistance	BS6387 Protocol C W Z IEC 60331-21(180) EN 50200 (PH120)
Halogen Acid Gas	EN/IEC60754-1 (≤ 0.5%) EN/IEC60754-2 (pH ≥ 4.3 & Conductivity ≤ 10µS/mm)
Smoke Emission	EN/IEC61034-2 (Light Transmittance ≥ 60%)





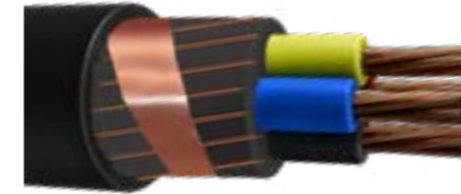
**TABLE:**

SERIAL NO.	MESC MODEL NO.	NO OF CORES	NOMINAL CROSS SECTION AREA OF CONDUCTOR (MM <sup>2</sup> )	NO. OF STRANDS	CLASS OF CONDUCTOR	RADIAL THICKNESS OF INSULATION (MM)	NOMINAL THICKNESS OF SHEATH (mm)	APPROX OVER ALL DIAMETER (mm)	OVER ALL DIA TOLERANCE (mm)	APPROX. CABLE WEIGHT (kg/km)
1	026Y-02C00100-U0RD8-F1	2C	1.0	1	1	0.6	0.9	9.5	±1.5	105
2	021Y-02C00100-U0RD8-FC	2C	1.0	7	2	0.6	0.9	9.8	±1.5	108
3	026Y-02C00150-U0RD8-F1	2C	1.5	1	1	0.7	0.9	10.4	±1.5	125
4	021Y-02C00150-U0RD8-FC	2C	1.5	7	2	0.7	0.9	10.8	±1.5	130
5	026Y-02C00250-U0RD8-F1	2C	2.5	1	1	0.7	1.0	11.4	±1.5	160
6	021Y-02C00250-U0RD8-FC	2C	2.5	7	2	0.7	1.0	11.9	±1.5	167
7	026Y-02C00400-U0RD8-F1	2C	4	1	1	0.7	1.1	12.6	±2.0	208
8	021Y-02C00400-U0RD8-FC	2C	4	7	2	0.7	1.1	13.2	±2.0	215
9	026Y-03C00150-U0RD8-F1	3C	1.5	1	1	0.7	0.9	11.0	±1.5	155
10	021Y-03C00150-U0RD8-FC	3C	1.5	7	2	0.7	0.9	11.4	±1.5	162
11	026Y-03C00250-U0RD8-F1	3C	2.5	1	1	0.7	1.0	12.1	±1.5	203
12	021Y-03C00250-U0RD8-FC	3C	2.5	7	2	0.7	1.0	12.5	±1.5	205
13	026Y-03C00400-U0RD8-F1	3C	4	1	1	0.7	1.1	13.3	±2.0	265
14	021Y-03C00400-U0RD8-FC	3C	4	7	2	0.7	1.1	13.9	±2.0	275
15	026Y-04C00150-U0RD8-F1	4C	1.5	1	1	0.7	1.0	12.1	±1.5	195
16	021Y-04C00150-U0RD8-FC	4C	1.5	7	2	0.7	1.0	12.6	±1.5	205
17	026Y-04C00250-U0RD8-F1	4C	2.5	1	1	0.7	1.1	13.3	±2.0	255
18	021Y-04C00250-U0RD8-FC	4C	2.5	7	2	0.7	1.1	13.8	±2.0	260
19	026Y-04C00400-U0RD8-F1	4C	4	1	1	0.7	1.2	14.6	±2.0	335
20	021Y-04C00400-U0RD8-FC	4C	4	7	2	0.7	1.2	15.4	±2.0	350

\* Outer sheath color:-White and others color are available on request.

## LV POWER & CONTROL MULTI CORE SCREENED CABLE

N2XCY – CU/XLPE / PVC / COPPER WIRE & COPPER TAPE SCREEN/PVC  
SPECIFICATION: IEC 60502-1



### APPLICATION

Can be used indoors or outdoors in the cable duct, cable trays, conduits or underground in the power and switching station, local distribution system, industrial plant and commercial building.

### CONSTRUCTION

Conductor	Stranded annealed plain Copper Class 2 to IEC 60228.
Insulation	Cross linked polyethylene (XLPE) to IEC 60502-1.
Color Code*	2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow
Cabling	Cores are assembled in a concentric layer and laid up with non-hygroscopic filler, if necessary & assembly is wrapped with binder tape.
Inner Sheath	Extruded PVC compatible with the operating temperature of the conductor in Black color.
Screening	Copper wires laid over the inner sheath with a transverse helix of copper tape. The screen area equivalent to conductor cross section area.
Outer Sheath**	Flame retardant PVC Type ST-2 to IEC 60502-1. The color of the sheath shall be Black.
Marking on the bsheath	Example - ELECTRIC CABLE (N2XCY) CU/XLPE/PVC SHIELDED NO OF CORES C X SQMM 600/1000V MESC YEAR IEC 60502-1 LENGTH METER MARKING

### TECHNICAL DATA:

Operating Temperature	-15°C to +90°C
Voltage Rating	600/1000 Volts
Voltage Withstand (V/Minute)	3500 V RMS / 5 or 8400 VDC / 5

\*Other Insulation color available on request.

\*\*Other sheath color available on request.

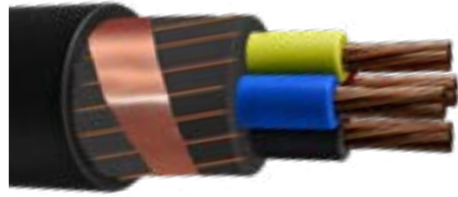
Flame Retardant Property of cable will be as per requirement.

Other special sheath Materials are also available with UV/Sunlight resistance & Oil resistance.

Cables with Two/Three/Four and half core is available on request.

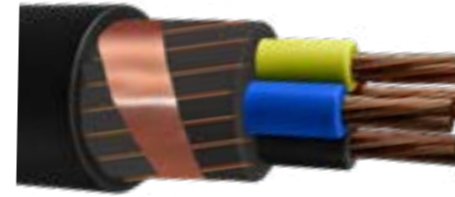
The tolerance on the cable overall diameter shall be +/- 2.5mm up to 30mm, above 30 to 45 mm: +/- 3.0mm & above 45mm: +/- 3.5mm.

**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
								Nom	Min			
1	7914-02C00150-U0BK8-00*	2C	1.5	7	0.7	1.0	8.4	1.8	1.24	12.6	197	43
2	7914-02C00250-U0BK8-00*	2C	2.5	7	0.7	1.0	9.2	1.8	1.24	13.7	240	47
3	7914-02C00400-U0BK8-00*	2C	4	7	0.7	1.0	10.2	1.8	1.24	14.9	300	52
4	7914-02C00600-U0BK8-00*	2C	6	7	0.7	1.0	11.4	1.8	1.24	16.3	375	57
5	7914-02C01000-U0BK8-00*	2C	10	7	0.7	1.0	13.3	1.8	1.24	18.5	520	66
6	79D4-02C01600-U0BK8-00	2C	16	7	0.7	1.0	14.6	1.8	1.24	20.3	700	73
7	79D4-02C02500-U0BK8-00	2C	25	7	0.9	1.0	17.8	1.8	1.24	23.7	995	87
8	79D4-02C03500-U0BK8-00	2C	35	7	0.9	1.0	20.0	1.8	1.24	26.2	1310	97
9	79D4-02C05000-U0BK8-00	2C	50	19	1.0	1.0	23.1	1.8	1.24	29.6	1720	110
10	79D4-02C07000-U0BK8-00	2C	70	19	1.1	1.0	26.5	1.9	1.32	33.6	2345	132
11	79D4-02C09500-U0BK8-00	2C	95	19	1.1	1.2	30.2	2.0	1.40	37.8	3110	157
12	79D4-02C12000-U0BK8-00	2C	120	19	1.2	1.2	33.5	2.2	1.56	41.8	3900	192
13	79D4-02C15000-U0BK8-00	2C	150	19	1.4	1.2	37.3	2.3	1.64	45.8	4750	220
14	79D4-02C18500-U0BK8-00	2C	185	37	1.6	1.4	41.7	2.5	1.80	50.9	5860	266
15	79D4-02C24000-U0BK8-00	2C	240	37	1.7	1.4	46.6	2.7	1.96	56.5	7545	319
16	79D4-02C30000-U0BK8-00	2C	300	37	1.8	1.6	51.7	2.9	2.12	62.1	9425	377
17	7914-03C00150-U0BK8-00*	3C	1.5	7	0.7	1.0	8.9	1.8	1.24	13.1	225	45
18	7914-03C00250-U0BK8-00*	3C	2.5	7	0.7	1.0	9.8	1.8	1.24	14.2	275	49
19	7914-03C00400-U0BK8-00*	3C	4	7	0.7	1.0	10.9	1.8	1.24	15.5	350	54
20	7914-03C00600-U0BK8-00*	3C	6	7	0.7	1.0	12.2	1.8	1.24	17.0	448	60
21	7914-03C01000-U0BK8-00*	3C	10	7	0.7	1.0	14.2	1.8	1.24	19.3	635	69
22	79D4-03C01600-U0BK8-00	3C	16	7	0.7	1.0	15.6	1.8	1.24	21.2	870	77
23	79D4-03C02500-U0BK8-00	3C	25	7	0.9	1.0	19.0	1.8	1.24	24.9	1250	91
24	79D4-03C03500-U0BK8-00	3C	35	7	0.9	1.0	21.4	1.8	1.24	27.5	1655	102
25	7914-04C00150-U0BK8-00*	4C	1.5	7	0.7	1.0	9.6	1.8	1.24	13.8	250	47
26	7914-04C00250-U0BK8-00*	4C	2.5	7	0.7	1.0	10.7	1.8	1.24	15.0	318	52

**TABLE: IEC 60332-3-24 (CAT C)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
								Nom	Min			
27	7914-04C00400-U0BK8-00*	4C	4	7	0.7	1.0	11.9	1.8	1.24	16.5	408	58
28	7914-04C00600-U0BK8-00*	4C	6	7	0.7	1.0	13.3	1.8	1.24	18.1	530	64
29	7914-04C01000-U0BK8-00*	4C	10	7	0.7	1.0	15.6	1.8	1.24	20.7	768	75
30	79D4-04C01600-U0BK8-00	4C	16	7	0.7	1.0	17.2	1.8	1.24	22.6	1040	82
31	7914-05C00150-U0BK8-00-02*	5C	1.5	7	0.7	1.0	10.5	1.8	1.24	14.6	283	51
32	7914-05C00250-U0BK8-00-02*	5C	2.5	7	0.7	1.0	11.6	1.8	1.24	15.9	358	56
33	7614-05C00400-W0BK8-00-02*	5C	4	7	0.7	1.0	13.0	1.8	1.24	17.5	467	62
34	7914-05C00600-U0BK8-00-02*	5C	6	7	0.7	1.0	14.6	1.8	1.24	19.3	610	69
35	7914-05C01000-U0BK8-00-02*	5C	10	7	0.7	1.0	17.1	1.8	1.24	22.1	890	80
36	79D4-05C01600-U0BK8-00-02	5C	16	7	0.7	1.0	18.9	1.8	1.24	24.3	1219	89
37	79D4-05C02500-U0BK8-00-02	5C	25	7	0.9	1.0	23.2	1.8	1.24	28.8	1787	107
38	79D4-05C03500-U0BK8-00-02	5C	35	7	0.9	1.0	26.1	1.9	1.32	32.2	2396	127
39	79D4-05C05000-U0BK8-00-02	5C	50	19	1.0	1.2	30.7	2.0	1.40	37.2	3225	155
40	79D4-05C07000-U0BK8-00-02	5C	70	19	1.1	1.2	35.4	2.2	1.56	42.6	4480	195
41	79D4-05C09500-U0BK8-00-02	5C	95	19	1.1	1.4	40.2	2.4	1.72	47.9	5950	240
42	79D4-05C12000-U0BK8-00-02	5C	120	19	1.2	1.4	44.6	2.5	1.80	52.7	7445	276

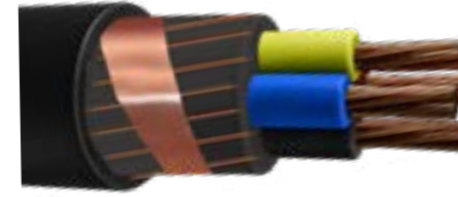
\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
								Nom	Min			
1	7914-02C00150-U0BK8-0A*	2C	1.5	7	0.7	1.0	8.4	1.8	1.24	12.6	197	43
2	7914-02C00250-U0BK8-0A*	2C	2.5	7	0.7	1.0	9.2	1.8	1.24	13.7	240	47
3	7914-02C00400-U0BK8-0A*	2C	4	7	0.7	1.0	10.2	1.8	1.24	14.9	300	52
4	7914-02C00600-U0BK8-0A*	2C	6	7	0.7	1.0	11.4	1.8	1.24	16.3	375	57
5	7914-02C01000-U0BK8-0A*	2C	10	7	0.7	1.0	13.3	1.8	1.24	18.5	520	66
6	79D4-02C01600-U0BK8-0A	2C	16	7	0.7	1.0	14.6	1.8	1.24	20.3	700	73
7	79D4-02C02500-U0BK8-0A	2C	25	7	0.9	1.0	17.8	1.8	1.24	23.7	995	87
8	79D4-02C03500-U0BK8-0A	2C	35	7	0.9	1.0	20.0	1.8	1.24	26.2	1310	97
9	79D4-02C05000-U0BK8-0A	2C	50	19	1.0	1.0	23.1	1.8	1.24	29.6	1720	110
10	79D4-02C07000-U0BK8-0A	2C	70	19	1.1	1.0	26.5	1.9	1.32	33.6	2345	132
11	79D4-02C09500-U0BK8-0A	2C	95	19	1.1	1.2	30.2	2.0	1.40	37.8	3110	157
12	79D4-02C12000-U0BK8-0A	2C	120	19	1.2	1.2	33.5	2.2	1.56	41.8	3900	192
13	79D4-02C15000-U0BK8-0A	2C	150	19	1.4	1.2	37.3	2.3	1.64	45.8	4750	220
14	79D4-02C18500-U0BK8-0A	2C	185	37	1.6	1.4	41.7	2.5	1.80	50.9	5860	266
15	79D4-02C24000-U0BK8-0A	2C	240	37	1.7	1.4	46.6	2.7	1.96	56.5	7545	319
16	79D4-02C30000-U0BK8-0A	2C	300	37	1.8	1.6	51.7	2.9	2.12	62.1	9425	377
17	7914-03C00150-U0BK8-0A*	3C	1.5	7	0.7	1.0	8.9	1.8	1.24	13.1	225	45
18	7914-03C00250-U0BK8-0A*	3C	2.5	7	0.7	1.0	9.8	1.8	1.24	14.2	275	49
19	7914-03C00400-U0BK8-0A*	3C	4	7	0.7	1.0	10.9	1.8	1.24	15.5	350	54
20	7914-03C00600-U0BK8-0A*	3C	6	7	0.7	1.0	12.2	1.8	1.24	17.0	448	60

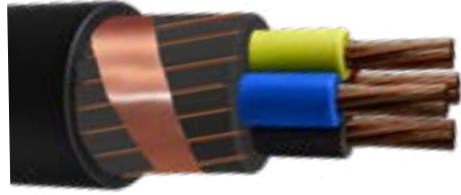
**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
								Nom	Min			
21	7914-03C01000-U0BK8-0A*	3C	10	7	0.7	1.0	14.2	1.8	1.24	19.3	635	69
22	79D4-03C01600-U0BK8-0A	3C	16	7	0.7	1.0	15.6	1.8	1.24	21.2	870	77
23	79D4-03C02500-U0BK8-0A	3C	25	7	0.9	1.0	19.0	1.8	1.24	24.9	1250	91
24	79D4-03C03500-U0BK8-0A	3C	35	7	0.9	1.0	21.4	1.8	1.24	27.5	1655	102
25	7914-04C00150-U0BK8-0A*	4C	1.5	7	0.7	1.0	9.6	1.8	1.24	13.8	250	47
26	7914-04C00250-U0BK8-0A*	4C	2.5	7	0.7	1.0	10.7	1.8	1.24	15.0	318	52
27	7914-04C00400-U0BK8-0A*	4C	4	7	0.7	1.0	11.9	1.8	1.24	16.5	408	58
28	7914-04C00600-U0BK8-0A*	4C	6	7	0.7	1.0	13.3	1.8	1.24	18.1	530	64
29	7914-04C01000-U0BK8-0A*	4C	10	7	0.7	1.0	15.6	1.8	1.24	20.7	768	75
30	79D4-04C01600-U0BK8-0A	4C	16	7	0.7	1.0	17.2	1.8	1.24	22.6	1040	82
31	7914-05C00150-U0BK8-0A-02*	5C	1.5	7	0.7	1.0	10.5	1.8	1.24	14.6	283	51
32	7914-05C00250-U0BK8-0A-02*	5C	2.5	7	0.7	1.0	11.6	1.8	1.24	15.9	358	56
33	7914-05C00400-U0BK8-0A-02*	5C	4	7	0.7	1.0	13.0	1.8	1.24	17.5	467	62
34	7914-05C00600-U0BK8-0A-02*	5C	6	7	0.7	1.0	14.6	1.8	1.24	19.3	610	69
35	7914-05C01000-U0BK8-0A-02*	5C	10	7	0.7	1.0	17.1	1.8	1.24	22.1	890	80
36	79D4-05C01600-U0BK8-0A-02	5C	16	7	0.7	1.0	18.9	1.8	1.24	24.3	1219	89
37	79D4-05C02500-U0BK8-0A-02	5C	25	7	0.9	1.0	23.2	1.8	1.24	28.8	1787	107
38	79D4-05C03500-U0BK8-0A-02	5C	35	7	0.9	1.0	26.1	1.9	1.32	32.2	2396	127
39	79D4-05C05000-U0BK8-0A-02	5C	50	19	1.0	1.2	30.7	2.0	1.40	37.2	3225	155
40	79D4-05C07000-U0BK8-0A-02	5C	70	19	1.1	1.2	35.4	2.2	1.56	42.6	4480	195
41	79D4-05C09500-U0BK8-0A-02	5C	95	19	1.1	1.4	40.2	2.4	1.72	47.9	5950	240
42	79D4-05C12000-U0BK8-0A-02	5C	120	19	1.2	1.4	44.6	2.5	1.80	52.7	7445	276

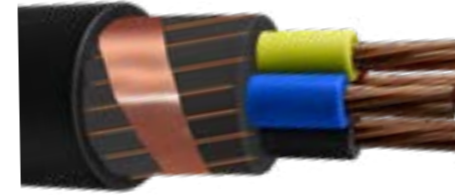
\*Non-Compacted conductor, all other compacted conductor

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
								Nom	Min			
1	7914-02C00150-U0BK8-NI*	2C	1.5	7	0.7	1.0	8.4	1.8	1.24	12.6	197	43
2	7914-02C00250-U0BK8-NI*	2C	2.5	7	0.7	1.0	9.2	1.8	1.24	13.7	240	47
3	7914-02C00400-U0BK8-NI*	2C	4	7	0.7	1.0	10.2	1.8	1.24	14.9	300	52
4	7914-02C00600-U0BK8-NI*	2C	6	7	0.7	1.0	11.4	1.8	1.24	16.3	375	57
5	7914-02C01000-U0BK8-NI*	2C	10	7	0.7	1.0	13.3	1.8	1.24	18.5	520	66
6	79D4-02C01600-U0BK8-NI	2C	16	7	0.7	1.0	14.6	1.8	1.24	20.3	700	73
7	79D4-02C02500-U0BK8-NI	2C	25	7	0.9	1.0	17.8	1.8	1.24	23.7	995	87
8	79D4-02C03500-U0BK8-NI	2C	35	7	0.9	1.0	20.0	1.8	1.24	26.2	1310	97
9	79D4-02C05000-U0BK8-NI	2C	50	19	1.0	1.0	23.1	1.8	1.24	29.6	1720	110
10	79D4-02C07000-U0BK8-NI	2C	70	19	1.1	1.0	26.5	1.9	1.32	33.6	2345	132
11	79D4-02C09500-U0BK8-NI	2C	95	19	1.1	1.2	30.2	2.0	1.40	37.8	3110	157
12	79D4-02C12000-U0BK8-NI	2C	120	19	1.2	1.2	33.5	2.2	1.56	41.8	3900	192
13	79D4-02C15000-U0BK8-NI	2C	150	19	1.4	1.2	37.3	2.3	1.64	45.8	4750	220
14	79D4-02C18500-U0BK8-NI	2C	185	37	1.6	1.4	41.7	2.5	1.80	50.9	5860	266
15	79D4-02C24000-U0BK8-NI	2C	240	37	1.7	1.4	46.6	2.7	1.96	56.5	7545	319
16	79D4-02C30000-U0BK8-NI	2C	300	37	1.8	1.6	51.7	2.9	2.12	62.1	9425	377
17	7914-03C00150-U0BK8-NI*	3C	1.5	7	0.7	1.0	8.9	1.8	1.24	13.1	225	45
18	7914-03C00250-U0BK8-NI*	3C	2.5	7	0.7	1.0	9.8	1.8	1.24	14.2	275	49
19	7914-03C00400-U0BK8-NI*	3C	4	7	0.7	1.0	10.9	1.8	1.24	15.5	350	54
20	7914-03C00600-U0BK8-NI*	3C	6	7	0.7	1.0	12.2	1.8	1.24	17.0	448	60
21	7914-03C01000-U0BK8-NI*	3C	10	7	0.7	1.0	14.2	1.8	1.24	19.3	635	69
22	79D4-03C01600-U0BK8-NI	3C	16	7	0.7	1.0	15.6	1.8	1.24	21.2	870	77
23	79D4-03C02500-U0BK8-NI	3C	25	7	0.9	1.0	19.0	1.8	1.24	24.9	1250	91
24	79D4-03C03500-U0BK8-NI	3C	35	7	0.9	1.0	21.4	1.8	1.24	27.5	1655	102
24	7914-04C00150-U0BK8-NI*	4C	1.5	7	0.7	1.0	9.6	1.8	1.24	13.8	250	47
26	7914-04C00250-U0BK8-NI*	4C	2.5	7	0.7	1.0	10.7	1.8	1.24	15.0	318	52
27	7914-04C00400-U0BK8-NI*	4C	4	7	0.7	1.0	11.9	1.8	1.24	16.5	408	58
28	7914-04C00600-U0BK8-NI*	4C	6	7	0.7	1.0	13.3	1.8	1.24	18.1	530	64
29	7914-04C01000-U0BK8-NI*	4C	10	7	0.7	1.0	15.6	1.8	1.24	20.7	768	75
30	79D4-04C01600-U0BK8-NI	4C	16	7	0.7	1.0	17.2	1.8	1.24	22.6	1040	82

**TABLE: IEC 60332-1-2**  
CIRCULAR CONDUCTOR:

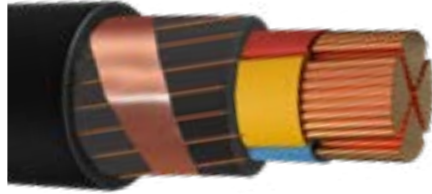


SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
								Nom	Min			
31	7914-05C00150-U0BK8-NI-02*	5C	1.5	7	0.7	1.0	10.5	1.8	1.24	14.6	283	51
32	7914-05C00250-U0BK8-NI-02*	5C	2.5	7	0.7	1.0	11.6	1.8	1.24	15.9	358	56
33	7914-05C00400-U0BK8-NI-02*	5C	4	7	0.7	1.0	13.0	1.8	1.24	17.5	467	62
34	7914-05C00600-U0BK8-NI-02*	5C	6	7	0.7	1.0	14.6	1.8	1.24	19.3	610	69
35	7914-05C01000-U0BK8-NI-02*	5C	10	7	0.7	1.0	17.1	1.8	1.24	22.1	890	80
36	79D4-05C01600-U0BK8-NI-02	5C	16	7	0.7	1.0	18.9	1.8	1.24	24.3	1219	89
37	79D4-05C02500-U0BK8-NI-02	5C	25	7	0.9	1.0	23.2	1.8	1.24	28.8	1787	107
38	79D4-05C03500-U0BK8-NI-02	5C	35	7	0.9	1.0	26.1	1.9	1.32	32.2	2396	127
39	79D4-05C05000-U0BK8-NI-02	5C	50	19	1.0	1.2	30.7	2.0	1.40	37.2	3225	155
40	79D4-05C07000-U0BK8-NI-02	5C	70	19	1.1	1.2	35.4	2.2	1.56	42.6	4480	195
41	79D4-05C09500-U0BK8-NI-02	5C	95	19	1.1	1.4	40.2	2.4	1.72	47.9	5950	240
42	79D4-05C12000-U0BK8-NI-02	5C	120	19	1.2	1.4	44.6	2.5	1.80	52.7	7445	276

\*Non-Compacted conductor, all other compacted conductor

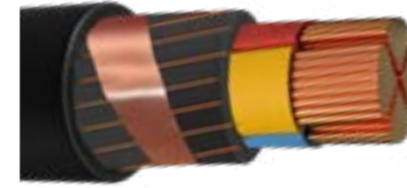


**TABLE: IEC 60332-3-24 (CAT C)**  
SECTOR SHAPED CONDUCTOR:



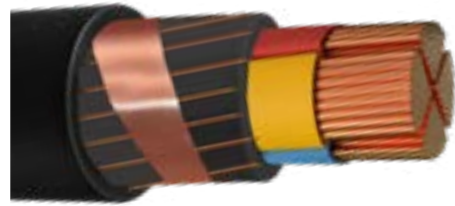
SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
								Nom	Min			
1	79F4-03C02500-U0BK8-00	3C	25	7	0.9	1.0	16.5	1.8	1.24	22.5	1209	82
2	79F4-03C03500-U0BK8-00	3C	35	7	0.9	1.0	18.4	1.8	1.24	24.7	1595	91
3	79F4-03C05000-U0BK8-00	3C	50	19	1.0	1.0	21.2	1.8	1.24	27.9	2145	103
4	79F4-03C07000-U0BK8-00	3C	70	19	1.1	1.2	25.1	2.0	1.40	32.1	2995	132
5	79F4-03C09500-U0BK8-00	3C	95	19	1.1	1.2	27.6	2.1	1.48	35.6	3945	155
6	79F4-03C12000-U0BK8-00	3C	120	19	1.2	1.2	30.5	2.2	1.56	39.0	4958	178
7	79F4-03C15000-U0BK8-00	3C	150	19	1.4	1.4	35.1	2.4	1.72	43.3	6150	216
8	79F4-03C18500-U0BK8-00	3C	185	37	1.6	1.4	38.0	2.6	1.88	47.6	7523	257
9	79F4-03C24000-U0BK8-00	3C	240	37	1.7	1.6	42.7	2.8	2.04	52.9	9770	308
10	79F4-03C30000-U0BK8-00	3C	300	37	1.8	1.6	46.9	3.0	2.20	57.8	12230	361
11	79F4-04C02500-U0BK8-00	4C	25	7	0.9	1.0	19.4	1.8	1.24	25.3	1490	93
12	79F4-04C03500-U0BK8-00	4C	35	7	0.9	1.0	21.8	1.8	1.24	27.9	1979	103
13	79F4-04C05000-U0BK8-00	4C	50	19	1.0	1.0	25.0	1.9	1.32	31.9	2680	125
14	79F4-04C07000-U0BK8-00	4C	70	19	1.1	1.2	29.5	2.1	1.48	36.8	3755	160
15	79F4-04C09500-U0BK8-00	4C	95	19	1.1	1.2	33.0	2.2	1.56	40.9	4925	187
16	79F4-04C12000-U0BK8-00	4C	120	19	1.2	1.4	37.0	2.4	1.72	45.3	6210	226
17	79F4-04C15000-U0BK8-00	4C	150	19	1.4	1.4	41.3	2.6	1.88	50.2	7663	272
18	79F4-04C18500-U0BK8-00	4C	185	37	1.6	1.4	45.7	2.7	1.96	55.0	9365	310
19	79F4-04C24000-U0BK8-00	4C	240	37	1.7	1.6	51.4	3.0	2.20	61.5	12195	386
20	79F4-04C30000-U0BK8-00	4C	300	37	1.8	1.6	56.6	3.2	2.36	67.4	15275	452

**TABLE: IEC 60332-3-22 (CAT A) / IEC 60332-3-23 (CAT B)**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (Kg)
								Nom	Min			
1	79F4-03C02500-U0BK8-0A	3C	25	7	0.9	1.0	16.5	1.8	1.24	22.5	1209	82
2	79F4-03C03500-U0BK8-0A	3C	35	7	0.9	1.0	18.4	1.8	1.24	24.7	1595	91
3	79F4-03C05000-U0BK8-0A	3C	50	19	1.0	1.0	21.2	1.8	1.24	27.9	2145	103
4	79F4-03C07000-U0BK8-0A	3C	70	19	1.1	1.2	25.1	2.0	1.40	32.1	2995	132
5	79F4-03C09500-U0BK8-0A	3C	95	19	1.1	1.2	27.6	2.1	1.48	35.6	3945	155
6	79F4-03C12000-U0BK8-0A	3C	120	19	1.2	1.2	30.5	2.2	1.56	39.0	4958	178
7	79F4-03C15000-U0BK8-0A	3C	150	19	1.4	1.4	35.1	2.4	1.72	43.3	6150	216
8	79F4-03C18500-U0BK8-0A	3C	185	37	1.6	1.4	38.0	2.6	1.88	47.6	7523	257
9	79F4-03C24000-U0BK8-0A	3C	240	37	1.7	1.6	42.7	2.8	2.04	52.9	9770	308
10	79F4-03C30000-U0BK8-0A	3C	300	37	1.8	1.6	46.9	3.0	2.20	57.8	12230	361
11	79F4-04C02500-U0BK8-0A	4C	25	7	0.9	1.0	19.4	1.8	1.24	25.3	1490	93
12	79F4-04C03500-U0BK8-0A	4C	35	7	0.9	1.0	21.8	1.8	1.24	27.9	1979	103
13	79F4-04C05000-U0BK8-0A	4C	50	19	1.0	1.0	25.0	1.9	1.32	31.9	2680	125
14	79F4-04C07000-U0BK8-0A	4C	70	19	1.1	1.2	29.5	2.1	1.48	36.8	3755	160
15	79F4-04C09500-U0BK8-0A	4C	95	19	1.1	1.2	33.0	2.2	1.56	40.9	4925	187
16	79F4-04C12000-U0BK8-0A	4C	120	19	1.2	1.4	37.0	2.4	1.72	45.3	6210	226
17	79F4-04C15000-U0BK8-0A	4C	150	19	1.4	1.4	41.3	2.6	1.88	50.2	7663	272
18	79F4-04C18500-U0BK8-0A	4C	185	37	1.6	1.4	45.7	2.7	1.96	55.0	9365	310
19	79F4-04C24000-U0BK8-0A	4C	240	37	1.7	1.6	51.4	3.0	2.20	61.5	12195	386
20	79F4-04C30000-U0BK8-0A	4C	300	37	1.8	1.6	56.6	3.2	2.36	67.4	15275	452

**TABLE: IEC 60332-1-2**  
SECTOR SHAPED CONDUCTOR:



SERIAL NO.	MESC MODEL NO.	NO OF CORES	SIZE (mm <sup>2</sup> )	NO. OF STRANDS	INSULATION THICKNESS (mm)	INNER SHEATH THICKNESS (MM)	APPROX. DIA. OVER INNER SHEATH (MM)	OUTER SHEATH THICKNESS (mm)		APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	MAX. PULLING TENSION USING A CABLE GRIP (kg)
								Nom	Min			
1	79F4-03C02500-U0BK8-NI	3C	25	7	0.9	1.0	16.5	1.8	1.24	22.5	1209	82
2	79F4-03C03500-U0BK8-NI	3C	35	7	0.9	1.0	18.4	1.8	1.24	24.7	1595	91
3	79F4-03C05000-U0BK8-NI	3C	50	19	1.0	1.0	21.2	1.8	1.24	27.9	2145	103
4	79F4-03C07000-U0BK8-NI	3C	70	19	1.1	1.2	25.1	2.0	1.40	32.1	2995	132
5	79F4-03C09500-U0BK8-NI	3C	95	19	1.1	1.2	27.6	2.1	1.48	35.6	3945	155
6	79F4-03C12000-U0BK8-NI	3C	120	19	1.2	1.2	30.5	2.2	1.56	39.0	4958	178
7	79F4-03C15000-U0BK8-NI	3C	150	19	1.4	1.4	35.1	2.4	1.72	43.3	6150	216
8	79F4-03C18500-U0BK8-NI	3C	185	37	1.6	1.4	38.0	2.6	1.88	47.6	7523	257
9	79F4-03C24000-U0BK8-NI	3C	240	37	1.7	1.6	42.7	2.8	2.04	52.9	9770	308
10	79F4-03C30000-U0BK8-NI	3C	300	37	1.8	1.6	46.9	3.0	2.20	57.8	12230	361
11	79F4-04C02500-U0BK8-NI	4C	25	7	0.9	1.0	19.4	1.8	1.24	25.3	1490	93
12	79F4-04C03500-U0BK8-NI	4C	35	7	0.9	1.0	21.8	1.8	1.24	27.9	1979	103
13	79F4-04C05000-U0BK8-NI	4C	50	19	1.0	1.0	25.0	1.9	1.32	31.9	2680	125
14	79F4-04C07000-U0BK8-NI	4C	70	19	1.1	1.2	29.5	2.1	1.48	36.8	3755	160
15	79F4-04C09500-U0BK8-NI	4C	95	19	1.1	1.2	33.0	2.2	1.56	40.9	4925	187
16	79F4-04C12000-U0BK8-NI	4C	120	19	1.2	1.4	37.0	2.4	1.72	45.3	6210	226
17	79F4-04C15000-U0BK8-NI	4C	150	19	1.4	1.4	41.3	2.6	1.88	50.2	7663	272
18	79F4-04C18500-U0BK8-NI	4C	185	37	1.6	1.4	45.7	2.7	1.96	55.0	9365	310
19	79F4-04C24000-U0BK8-NI	4C	240	37	1.7	1.6	51.4	3.0	2.20	61.5	12195	386
20	79F4-04C30000-U0BK8-NI	4C	300	37	1.8	1.6	56.6	3.2	2.36	67.4	15275	452

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

#### ELECTRICAL PARAMETER

(COPPER CONDUCTOR)

NOMINAL CROSS SECTION (MM <sup>2</sup> )	DC RESISTANCE 20° C	DC RESISTANCE 90° C	AC RESISTANCE 90° C	IMPEDANCE (Z)	INDUCTIVE REACTANCE (X)
	OHM/KM	OHM/KM	OHM/KM	OHM/KM	OHM/KM
1.5	12.1	15.43	15.43	15.43	0.106
2.5	7.41	9.45	9.45	9.45	0.099
4	4.61	5.88	5.88	5.88	0.093
6	3.08	3.93	3.93	3.93	0.088
10	1.83	2.33	2.33	2.33	0.084
16	1.15	1.47	1.47	1.47	0.080
25	0.727	0.927	0.927	0.93	0.080
35	0.524	0.668	0.668	0.67	0.078
50	0.387	0.493	0.493	0.50	0.074
70	0.268	0.342	0.342	0.35	0.073
95	0.193	0.246	0.247	0.26	0.072
120	0.153	0.195	0.197	0.21	0.071
150	0.124	0.158	0.160	0.17	0.071
185	0.0991	0.126	0.128	0.14	0.071
240	0.0754	0.096	0.0989	0.12	0.070
300	0.0601	0.077	0.0802	0.10	0.070
400	0.0470	0.060	0.0645	0.09	0.069
500	0.0366	0.0467	0.0525	0.08	0.069
630	0.0283	0.0361	0.0428	0.08	0.068
800	0.0221	0.0282	0.0288	0.07	0.068
1000	0.0176	0.0224	0.0230	0.07	0.068

## TECHNICAL INFORMATION

### 0.6/1 KV CABLE

VOLTAGE DROP (V/A/km)

Nominal Cross Section Area (mm <sup>2</sup> )	XLPE INSULATED CABLES			PVC INSULATED CABLES		
	Voltage Drop 3 Phase (3 Single Core)	Voltage Drop 1 Phase (2 Core Cables)	Voltage Drop 3 Phase (3&4 Core Cables)	Voltage Drop 3 Phase (3 Single Core)	Voltage Drop 1 Phase (2 Core Cable)	Voltage Drop 3 Phase (3&4 Core Cables)
1.5	26.72	30.86	26.73	25.39	29.01	25.39
2.5	16.37	18.90	16.39	15.55	17.77	15.58
4	10.18	11.76	9.73	9.67	11.05	9.71
6	6.81	7.86	6.52	6.47	7.39	6.51
10	4.04	4.67	3.89	3.84	4.39	3.89
16	2.54	2.94	2.46	2.42	2.76	2.46
25	1.61	1.86	1.58	1.53	1.75	1.58
35	1.17	1.35	1.15	1.11	1.27	1.15
50	0.86	1.00	0.86	0.82	0.94	0.81
70	0.61	0.70	0.61	0.58	0.66	0.58
95	0.44	0.51	0.45	0.42	0.48	0.43
120	0.37	0.42	0.37	0.34	0.39	0.35
150	0.32	0.35	0.31	0.31	0.33	0.29
185	0.27	0.29	0.25	0.26	0.27	0.24
240	0.22	0.24	0.20	0.22	0.23	0.20
300	0.21	0.21	0.17	0.20	0.20	0.18
400	0.19	0.18	0.16	0.18	0.18	0.16
500	0.17	-	-	0.17	-	-
630	0.16	-	-	0.16	-	-
800	0.16	-	-	0.16	-	-
1000	0.15	-	-	0.15	-	-

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

SHORT CIRCUIT CURRENT (KA)

#### A. Permissible short circuit currents for copper conductors with XLPE insulation

AREA (mm <sup>2</sup> )	TRIPPING TIMES (SECONDS)												
	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	2	3	4	5
1.5	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
2.5	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2
4	1.3	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.4	0.3	0.3	0.3
6	1.9	1.6	1.4	1.2	1.1	1.0	1.0	0.9	0.9	0.6	0.5	0.4	0.4
10	3.2	2.6	2.3	2.0	1.8	1.7	1.6	1.5	1.4	1.0	0.8	0.7	0.6
16	5.1	4.2	3.6	3.2	3.0	2.7	2.6	2.4	2.3	1.6	1.3	1.1	1.0
25	8.0	6.5	5.7	5.1	4.6	4.3	4.0	3.8	3.6	2.5	2.1	1.8	1.6
35	11.2	9.1	7.9	7.1	6.5	6.0	5.6	5.3	5.0	3.5	2.9	2.5	2.2
50	16.0	13.1	11.3	10.1	9.2	8.5	8.0	7.5	7.2	5.1	4.1	3.6	3.2
70	22.4	18.3	15.8	14.2	12.9	12.0	11.2	10.6	10.0	7.1	5.8	5.0	4.5
95	30.4	24.8	21.5	19.2	17.5	16.2	15.2	14.3	13.6	9.6	7.8	6.8	6.1
120	38.4	31.3	27.1	24.3	22.2	20.5	19.2	18.1	17.2	12.1	9.9	8.6	7.7
150	48.0	39.2	33.9	30.3	27.7	25.6	24.0	22.6	21.5	15.2	12.4	10.7	9.6
185	59.2	48.3	41.8	37.4	34.2	31.6	29.6	27.9	26.5	18.7	15.3	13.2	11.8
240	76.7	62.7	54.3	48.5	44.3	41.0	38.4	36.2	34.3	24.3	19.8	17.2	15.3
300	95.9	78.3	67.8	60.7	55.4	51.3	48.0	45.2	42.9	30.3	24.8	21.5	19.2
400	127.9	104.4	90.4	80.9	73.8	68.4	64.0	60.3	57.2	40.4	33.0	28.6	25.6
500	159.9	130.5	113.1	101.1	92.3	85.5	79.9	75.4	71.5	50.6	41.3	35.8	32.0
630	201.4	164.5	142.4	127.4	116.3	107.7	100.7	95.0	90.1	63.7	52.0	45.0	40.3
800	255.8	208.9	180.9	161.8	147.7	136.7	127.9	120.6	114.4	80.9	66.0	57.2	51.2
1000	319.8	261.1	226.1	202.2	184.6	170.9	159.9	150.7	143.0	101.1	82.6	71.5	64.0

Above values of currents are based on the formula:  $I = kA/\sqrt{t}$

I = Short circuit current (KA).

A = Conductor area (mm<sup>2</sup>).

t = Short circuit time in sec.

k = 0.143

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

CURRENT CARRYING CAPACITY (AMPERE)

#### B. Permissible short circuit current for copper conductors with PVC Insulation

AREA (mm <sup>2</sup> )	TRIPPING TIMES (SECONDS)												
	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	2	3	4	5
1.5	0.35	0.28	0.25	0.22	0.20	0.19	0.17	0.16	0.16	0.11	0.09	0.08	0.07
2.5	0.58	0.47	0.41	0.37	0.34	0.31	0.29	0.27	0.26	0.18	0.15	0.13	0.12
4	0.93	0.76	0.66	0.59	0.54	0.50	0.47	0.44	0.42	0.29	0.24	0.21	0.19
6	1.40	1.14	0.99	0.88	0.81	0.75	0.70	0.66	0.62	0.44	0.36	0.31	0.28
10	2.33	1.90	1.64	1.47	1.34	1.24	1.16	1.10	1.04	0.74	0.60	0.52	0.47
16	3.72	3.04	2.63	2.35	2.15	1.99	1.86	1.75	1.66	1.18	0.96	0.83	0.74
25	5.81	4.75	4.11	3.68	3.36	3.11	2.91	2.74	2.60	1.84	1.50	1.30	1.16
35	8.14	6.65	5.76	5.15	4.70	4.35	4.07	3.84	3.64	2.57	2.10	1.82	1.63
50	11.6	9.49	8.22	7.35	6.71	6.22	5.81	5.48	5.20	3.68	3.00	2.60	2.33
70	16.3	13.3	11.5	10.3	9.40	8.70	8.14	7.67	7.28	5.15	4.20	3.64	3.26
95	22.1	18.0	15.6	14.0	12.8	11.8	11.0	10.4	9.88	6.99	5.70	4.94	4.42
120	27.9	22.8	19.7	17.6	16.1	14.9	14.0	13.2	12.5	8.82	7.21	6.24	5.58
150	34.9	28.5	24.7	22.1	20.1	18.6	17.4	16.4	15.6	11.0	9.01	7.80	6.98
185	43.0	35.1	30.4	27.2	24.8	23.0	21.5	20.3	19.2	13.6	11.1	9.62	8.60
240	55.8	45.6	39.5	35.3	32.2	29.8	27.9	26.3	25.0	17.6	14.4	12.5	11.2
300	69.8	57.0	49.3	44.1	40.3	37.3	34.9	32.9	31.2	22.1	18.0	15.6	14.0
400	93.0	76.0	65.8	58.8	53.7	49.7	46.5	43.9	41.6	29.4	24.0	20.8	18.6
500	116	94.9	82.2	73.5	67.1	62.2	58.1	54.8	52.0	36.8	30.0	26.0	23.3
630	147	120	104	92.7	84.6	78.3	73.3	69.1	65.5	46.3	37.8	32.8	29.3
800	186	152	132	118	107	99.4	93.0	87.7	83.2	58.8	48.0	41.6	37.2
1000	233	190	164	147	134	124	116	110	104	73.5	60.0	52.0	46.5

Above values of currents are based on the formula:  $I = kA/\sqrt{t}$  I = Short circuit current (KA)  
A = Conductor area (mm<sup>2</sup>).  
t = Short circuit time in sec.  
k = 0.104

#### Max. Short circuit temperature

CONSTRUCTION	MAX. SHORT CIRCUIT CONDUCTOR TEMPERATURE
PVC CABLE	140°C FOR CROSS SECTIONAL AREA > 300MM <sup>2</sup>
	160°C for Cross Sectional Area ≤ 300mm <sup>2</sup>
XLPE CABLE	250°C

Nominal Cross Sectional Area (mm <sup>2</sup> )	FOR XLPE INSULATED CABLES								
	3 & 4 Core Cables			2 Core Cables			Single Core Cables		
	In Ground	InAir	In Duct	In Ground	InAir	In Duct	In Ground	InAir	InDuct
1.5	30	24	25	37	29	31	32	27	29
2.5	40	32	33	47	39	40	43	37	40
4	52	42	41	67	52	52	55	48	52
6	64	53	51	78	67	66	70	60	67
10	86	73	68	103	90	87	93	82	88
16	111	96	89	137	120	112	122	112	114
25	143	130	118	177	156	144	157	150	151
35	173	160	142	212	193	185	186	178	174
50	205	195	168	258	232	209	225	220	225
70	252	247	209	308	292	258	276	281	270
95	303	305	251	371	360	309	330	344	318
120	346	355	290	420	416	352	375	400	356
150	390	407	327	471	453	394	419	460	385
185	441	469	370	521	548	449	471	528	425
240	511	551	424	605	647	518	542	622	476
300	580	638	488	674	738	582	606	709	519
400	654	735	563	786	849	652	671	810	551
500							744	916	598
630							817	1032	645
800							864	1121	672
1000							915	1216	714

#### Operating Conditions:

Ambient Temperature: 30°C  
Ground Temperature: 20°C  
Depth of Laying: 0.5m  
Thermal Resistivity of soil: 1.2°C m/W



## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

CURRENT CARRYING CAPACITY (AMPERE)

Nominal Cross Sectional Area (mm <sup>2</sup> )	FOR PVC INSULATED CABLES								
	3 & 4 Core Cables			2 Core Cables			Single Core Cables		
	In Ground	InAir	In Duct	In Ground	InAir	In Duct	In Ground	InAir	InDuct
1.5	29	23	24	35	27	29	31	26	28
2.5	38	30	31	44	37	38	41	35	38
4	49	40	39	64	49	49	52	46	49
6	61	50	48	74	64	63	66	57	64
10	82	69	65	98	86	83	88	78	84
16	105	91	85	130	114	106	116	106	108
25	136	123	113	168	148	137	149	142	143
35	164	152	135	201	183	176	177	169	165
50	195	184	160	245	220	198	214	209	211
70	239	233	199	294	277	245	262	267	256
95	288	275	238	353	342	293	313	327	302
120	329	337	275	400	386	334	356	380	338
150	370	385	310	445	437	374	398	437	366
185	419	445	353	495	521	426	447	502	404
240	485	523	405	575	601	492	515	591	452
300	50	596	450	640	684	553	575	653	487
400	621	675	535	747	784	619	636	745	517
500							694	843	551
630							757	949	591
800							794	997	616
1000							837	1075	654

Operating Conditions:

Ambient Temperature: 30°C, Ground Temperature: 20°C

Depth of Laying: 0.5m, Thermal Resistivity of soil: 1.2°C m/W

DE-RATING FACTORS FOR CONTROL CABLES								
No.ofCores	5	7	10	14	19	24	40	61
Factors in Ground	0.70	0.60	0.50	0.45	0.40	0.35	0.30	0.25
Factors in Air	0.75	0.65	0.55	0.5	0.45	0.40	0.35	0.30

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

FACTORS FOR CURRENT CARRYING CAPACITY

#### A. Factors for variation in ambient temperature:

AIR TEMPERATURE °C	10	15	20	25	30	35	40	45	50	
INSULATION	XLPE	1.15	1.12	1.08	1.04	1.0	0.96	0.91	0.87	0.82
	PVC	1.22	1.17	1.12	1.07	1.0	0.94	0.87	0.79	0.71

#### B. Factors for variation in ground temperature:

GROUND TEMPERATURE °C	10	15	20	25	30	35	40	45	50	
INSULATION	XLPE	1.07	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76
	PVC	1.10	1.05	1.00	0.95	0.89	0.84	0.77	0.71	0.63

#### C. Rating Factors for Depth of Laying for cables laid Direct in Ground or in Ducts

Depth of Laying Meter	Cables Laid Direct in Ground			Cable Laid in Ducts	
	Up to 50 mm <sup>2</sup>	70 mm <sup>2</sup> to 300 mm <sup>2</sup>	Above 300 mm <sup>2</sup>	Single Core	Multi Core
0.50	1.00	1.00	1.00	1.00	1.00
0.60	0.99	0.99	0.97	0.98	0.98
0.80	0.97	0.96	0.95	0.95	0.98
1.00	0.95	0.93	0.92	0.93	0.96
1.25	0.94	0.92	0.89	0.90	0.95
1.50	0.93	0.90	0.87	0.89	0.94
1.75	0.92	0.89	0.86	0.88	0.94
2.00	0.91	0.88	0.85	0.87	0.93
2.50	0.90	0.87	0.84	0.86	0.93
3.00	0.89	0.85	0.82	0.85	0.92

### D. Factors for grouping in air.

i) Single core cables in three phase systems.

Arrangement of cables	In flat formation, clearance = cable diameter d Distance from wall $\geq 2$ cm			In flat formation, clearance = 2d Distance from wall $\geq 2$ cm			
	1	2	3	1	2	3	
Laying on the ground	0.92	0.89	0.88	0.95	0.90	0.88	
Laying on cable troughs (restricted air circulation)	1	0.92	0.89	0.88	0.95	0.90	0.88
	2	0.87	0.84	0.83	0.90	0.85	0.83
	3	0.84	0.82	0.81	0.88	0.83	0.81
	6	0.82	0.80	0.79	0.86	0.81	0.79
Laying on cable troughs (unrestricted air circulation)	1	1.00	0.97	0.96	1.00	0.98	0.96
	2	0.97	0.94	0.93	1.00	0.95	0.93
	3	0.96	0.93	0.92	1.00	0.94	0.92
	6	0.94	0.91	0.90	1.00	0.93	0.90
Number of systems above each other	1	2	3	1	2	3	
Arranged on frameworks or at walls	0.94	0.91	0.89	0.89	0.86	0.84	

ii) Multi core cables in three phase systems.

Arrangement of cables	In flat formation, clearance = cable diameter d Distance from wall $\geq 2$ cm					Cables touching each other and in contact with the wall					
	1	2	3	6	9	1	2	3	6	9	
Laying on the ground	0.95	0.90	0.88	0.85	0.84	0.90	0.84	0.80	0.75	0.73	
Laying on cable troughs (restricted air circulation)	1	0.95	0.90	0.88	0.85	0.84	0.95	0.84	0.85	0.75	0.73
	2	0.90	0.85	0.83	0.81	0.80	0.95	0.85	0.76	0.71	0.69
	3	0.88	0.83	0.81	0.79	0.78	0.95	0.78	0.74	0.70	0.68
Laying on cable troughs (unrestricted air circulation)	1	1.00	0.98	0.96	0.93	0.92	0.95	0.84	0.80	0.75	0.73
	2	1.00	0.95	0.93	0.90	0.89	0.95	0.80	0.76	0.71	0.69
	3	1.00	0.94	0.92	0.89	0.88	0.95	0.78	0.74	0.70	0.68
Number of cables above each other	1	2	3	6	9	1	2	3	6	9	
Arranged on frameworks or at walls	1.00	0.93	0.90	0.87	0.86	0.95	0.78	0.73	0.68	0.66	

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

RATING FACTORS FOR VARIATION IN THERMAL RESISTIVITY OF SOIL

#### A) FOR MULTI CORE CABLES LAID DIRECT IN THE GROUND

AREA (mm <sup>2</sup> )	THERMAL RESISTIVITY OF SOIL IN °C M/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
1.5	1.12	1.09	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.70	0.66
2.5	1.12	1.09	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.70	0.66
4	1.13	1.10	1.07	1.05	1.0	0.94	0.85	0.79	0.74	0.69	0.65
6	1.14	1.10	1.07	1.05	1.0	0.93	0.85	0.79	0.74	0.68	0.64
10	1.15	1.11	1.08	1.05	1.0	0.93	0.85	0.78	0.73	0.67	0.63
16	1.16	1.12	1.08	1.05	1.0	0.93	0.84	0.77	0.72	0.66	0.62
25	1.17	1.13	1.09	1.05	1.0	0.93	0.83	0.77	0.71	0.65	0.61
35	1.17	1.13	1.09	1.06	1.0	0.92	0.83	0.76	0.71	0.65	0.61
50	1.17	1.13	1.09	1.06	1.0	0.92	0.83	0.76	0.71	0.65	0.61
70	1.18	1.14	1.09	1.06	1.0	0.92	0.83	0.75	0.70	0.64	0.60
95	1.18	1.14	1.09	1.06	1.0	0.92	0.83	0.75	0.70	0.64	0.60
120	1.19	1.14	1.10	1.06	1.0	0.92	0.82	0.75	0.69	0.63	0.60
150	1.19	1.14	1.10	1.06	1.0	0.92	0.82	0.75	0.69	0.63	0.59
185	1.19	1.14	1.10	1.06	1.0	0.92	0.82	0.74	0.69	0.63	0.59
240	1.20	1.15	1.10	1.07	1.0	0.92	0.81	0.74	0.69	0.63	0.59
300	1.20	1.15	1.10	1.07	1.0	0.92	0.81	0.74	0.69	0.63	0.59
400	1.20	1.15	1.10	1.07	1.0	0.92	0.81	0.74	0.69	0.63	0.59

#### B) FOR SINGLE AND THREE PHASE OF SINGLE CORE CABLES LAID DIRECT IN THE GROUND

AREA (mm <sup>2</sup> )	THERMAL RESISTIVITY OF SOIL IN °C M/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.21	1.16	1.11	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
70	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
95	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
120	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
150	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
185	1.22	1.17	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.62	0.59
240	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.68	0.62	0.59
300	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.68	0.62	0.59
400	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67	0.62	0.58
500	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67	0.62	0.58
630	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67	0.61	0.58

#### C) FOR THREE PHASE SINGLE CORE CABLES LAID IN DUCT

AREA (mm <sup>2</sup> )	THERMAL RESISTIVITY OF SOIL IN °C M/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.11	1.08	1.06	1.04	1.0	0.94	0.87	0.82	0.77	0.73	0.69
70	1.12	1.09	1.06	1.04	1.0	0.94	0.87	0.81	0.76	0.72	0.68
95	1.12	1.09	1.06	1.04	1.0	0.94	0.87	0.81	0.76	0.72	0.68
120	1.13	1.10	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.72	0.67
150	1.13	1.10	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.71	0.67
185	1.13	1.10	1.07	1.04	1.0	0.93	0.86	0.79	0.75	0.70	0.67
240	1.14	1.11	1.07	1.04	1.0	0.93	0.86	0.79	0.74	0.70	0.66
300	1.14	1.11	1.08	1.05	1.0	0.93	0.85	0.79	0.74	0.69	0.65
400	1.14	1.11	1.08	1.05	1.0	0.93	0.85	0.78	0.73	0.68	0.65
500	1.15	1.11	1.08	1.05	1.0	0.93	0.85	0.78	0.73	0.68	0.64
630	1.15	1.12	1.08	1.05	1.0	0.93	0.84	0.78	0.72	0.68	0.64

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

#### FACTORS FOR CURRENT CARRYING CAPACITY

For cable installation in other conditions, the current rating can be determined by the use of various rating factors given here under:

##### INSTALLATION IN GROUND

##### A. Factors for grouping in soil

Single core cables in flat formation

Clearance between systems: 7 cm

Insulation Type	Load Factor	0.7				1	
	Thermal Resistivity of the soil k.m/W	0.7	1.0	1.5	2.5	0.7-2.5	
	No. of systems in the trench fi						
XLPE	1	0.99	1.00	1.01	1.03	0.85	
	2	0.86	0.87	0.88	0.88	0.71	
	3	0.77	0.77	0.78	0.79	0.62	
	4	0.73	0.73	0.74	0.74	0.58	
	5	0.69	0.70	0.70	0.71	0.55	
	6	0.67	0.68	0.68	0.69	0.53	
	8	0.64	0.65	0.65	0.65	0.52	
	10	0.62	0.63	0.63	0.63	0.49	
	PVC	1	0.98	1.00	1.01	1.02	0.85
		2	0.86	0.87	0.88	0.89	0.71
3		0.77	0.78	0.79	0.79	0.62	
4		0.73	0.74	0.74	0.75	0.58	
5		0.70	0.70	0.71	0.71	0.55	
6		0.68	0.68	0.69	0.69	0.53	
8		0.65	0.65	0.65	0.66	0.51	
10		0.63	0.63	0.63	0.64	0.49	

**B. Factors for variation in ambient temperature and thermal resistivity of the soil.**

Insulation Type	Thermal Resistivity of the soil k.m/W	0.7		1.0		1.5		2.5
	Load Factor Fi	0.7	1.0	0.7	1.0	0.7	1.0	0.7-2.5
	Soil Temperature °C fi							
XLPE	10	1.16	1.05	1.05	0.98	0.95	0.91	0.86
	15	1.14	1.03	1.02	0.95	0.92	0.89	0.84
	20	1.12	1.00	1.00	0.93	0.9	0.86	0.81
	25			0.98	0.90	0.87	0.84	0.78
	30			0.95	0.88	0.84	0.81	0.75
	35					0.82	0.78	0.72
PVC	10	1.19	1.06	1.06	0.97	0.94	0.89	0.83
	15	1.17	1.03	1.03	0.94	0.91	0.86	0.79
	20	1.14	1.01	1.00	0.91	0.87	0.83	0.76
	25			0.97	0.88	0.84	0.79	0.72
	30			0.94	0.85	0.80	0.76	0.68
	35					0.77	0.72	0.63
	40							0.59

**C: FACTORS FOR GROUPING IN SOIL**

Single core cables in trefoil formation  
Clearance between systems: 7cm, 25cm

Insulation Type	Load Factor	0.7								1	
	Thermal Resistivity of the soil k.m/W	0.7		1.0		1.5		2.5		0.7-2.5	
	Clearance(cm)	7	25	7	25	7	25	7	25	7	25
No. of systems in the systems											
XLPE	1	0.99	0.99	1.00	1.00	1.01	1.01	1.03	1.03	0.87	0.87
	2	0.84	0.89	0.85	0.89	0.86	0.90	0.87	0.91	0.71	0.75
	3	0.74	0.81	0.75	0.82	0.76	0.82	0.76	0.83	0.61	0.67
	4	0.69	0.78	0.70	0.78	0.70	0.79	0.71	0.79	0.56	0.64
	5	0.65	0.74	0.66	0.75	0.66	0.75	0.67	0.76	0.52	0.6
	6	0.62	0.72	0.63	0.73	0.63	0.73	0.64	0.74	0.50	0.59
	8	0.58	0.70	0.59	0.70	0.59	0.70	0.59	0.71	0.46	0.56
	10	0.56	0.68	0.56	0.68	0.56	0.68	0.57	0.69	0.44	0.54
PVC	1	0.99	0.99	1.00	1.00	1.01	1.01	1.01	1.01	0.87	0.87
	2	0.84	0.89	0.85	0.90	0.86	0.91	0.87	0.92	0.71	0.75
	3	0.74	0.82	0.75	0.82	0.76	0.83	0.77	0.84	0.61	0.67
	4	0.69	0.78	0.70	0.79	0.71	0.79	0.71	0.80	0.56	0.64
	5	0.65	0.75	0.66	0.76	0.66	0.76	0.67	0.77	0.52	0.60
	6	0.62	0.73	0.63	0.74	0.64	0.74	0.64	0.75	0.50	0.59
	8	0.58	0.70	0.59	0.71	0.59	0.71	0.60	0.72	0.46	0.56
	10	0.55	0.69	0.56	0.69	0.56	0.69	0.57	0.70	0.44	0.54

**D. For grouping in soil**  
3, 4 & 5 core cables in trefoil formation Clearance between systems: 7cm

Insulation Type	Load Factor	0.7				1
	Thermal Resistivity of the soil k.m/W	0.7	1.0	1.5	2.5	0.7-2.5
	No. of systems in the trench fi					
XLPE	1	0.99	1.00	1.01	1.02	0.89
	2	0.84	0.85	0.86	0.87	0.72
	3	0.74	0.75	0.77	0.77	0.62
	4	0.69	0.70	0.71	0.72	0.57
	5	0.65	0.66	0.67	0.67	0.53
	6	0.63	0.63	0.64	0.65	0.51
	8	0.59	0.59	0.60	0.60	0.47
	10	0.56	0.56	0.57	0.57	0.44
PVC	1	0.94	1.00	1.01	1.02	0.89
	2	0.85	0.86	0.87	0.88	0.72
	3	0.75	0.76	0.77	0.78	0.62
	4	0.70	0.71	0.72	0.73	0.57
	5	0.66	0.67	0.68	0.68	0.53
	6	0.64	0.64	0.65	0.65	0.51
	8	0.59	0.60	0.61	0.61	0.47
	10	0.57	0.57	0.58	0.58	0.44



## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

Armour D.C. Resistance per km of cable @ 20° C

Nominal Cross Section (mm <sup>2</sup> )	Aluminium Wire armour	Galvanized Steel Wire Armour						
	Single core	Two Core		Three core		Four Core		Five core
	Ohm/km	Ohm/km		Ohm/km		Ohm/km		Ohm/km
	Circular	Circular	Shaped	Circular	Shaped	Circular	Shaped	Circular
1.5	-	10.2	-	9.5	-	8.8	-	8.2
2.5	-	8.8	-	8.2	-	7.7	-	6.8
4	-	7.9	-	7.5	-	6.8	-	6.2
6	-	7.0	-	6.7	-	4.3	-	3.9
10	-	6.0	-	4.0	-	3.7	-	3.4
16	-	3.7	-	3.5	-	3.1	-	2.2
25	-	3.2	3.7	2.3	2.5	2.1	2.3	1.8
35	-	2.2	2.6	2.1	2.3	1.9	2.0	1.6
50	1.3	2.0	2.3	1.8	2.0	1.3	1.8	1.1
70	0.75	1.4	2.0	1.3	1.8	1.2	1.2	0.94
95	0.67	1.2	1.4	1.2	1.3	0.76	1.1	-
120	0.61	1.1	1.3	0.76	1.2	0.69	0.76	-
150	0.42	-	1.2	-	0.78	-	0.68	-
185	0.38	-	0.82	-	0.71	-	0.61	-
240	0.34	-	0.73	-	0.63	-	0.54	-
300	0.31	-	0.67	-	0.58	-	0.49	-
400	0.22	-	0.59	-	0.52	-	0.35	-
500	0.20	-	-	-	-	-	-	-
630	0.18	-	-	-	-	-	-	-
800	0.13	-	-	-	-	-	-	-
1000	0.12	-	-	-	-	-	-	-

## TECHNICAL INFORMATION

### 0.6/1 KV CABLES

MINIMUM INSTALLATION RADIUS

TYPE OF CABLE	MINIMUM BENDING RADIUS
Circular conductors - armoured or unarmoured	8xD
Shaped conductors - armoured or unarmoured	10xD

### MAXIMUM PULLING TENSIONS

The maximum tension must not be exceeded when pulling a cable into ducts and conduits:

- a) Using a pulling eye:  
 $T_m = 7.16 \times n \times A$   
 $T_m$  = Maximum tension (Kg)  
 $n$  = No of conductors
- b) Using a cable grip:  
 $T_g = 3.14 \times k \times t \times (D - t)$   
 $T_g$  = Maximum Tension (Kg)  
 $t$  = Jacket thickness (mm)  
 $D$  = Cable overall diameter (mm)  
 $k$  = 0.7 Kg/sq.mm

The jacket required to pull the cable in a straight duct can be calculated as follows:

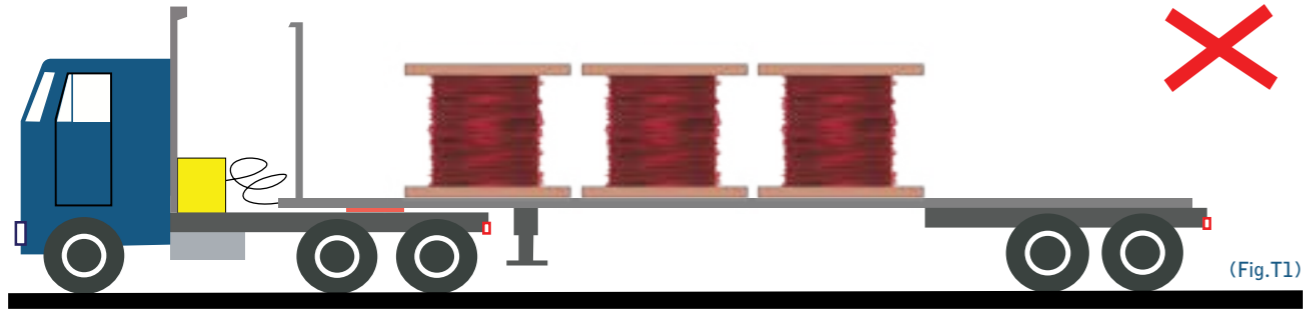
- $T_s = L \times w \times f$   
 $T_s$  = Tension required to pull cable, Kg.  
 $L$  = Length of cable, m  
 $w$  = Weight of cable, Kg/m  
 $f$  = Coefficient of friction

Duct Material	Coefficient of friction		
	Jacket Material		
	PE	PVC	Rubber
Asbestos Cement	0.56	0.56	0.68
Rigid PVC	0.34	0.52	0.53
Metal	0.36	0.55	0.60

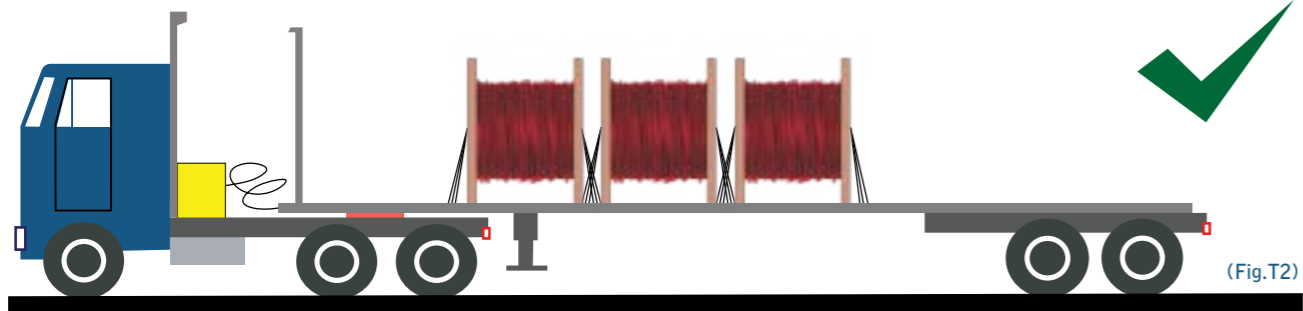
## GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

### TRANSPORTATION

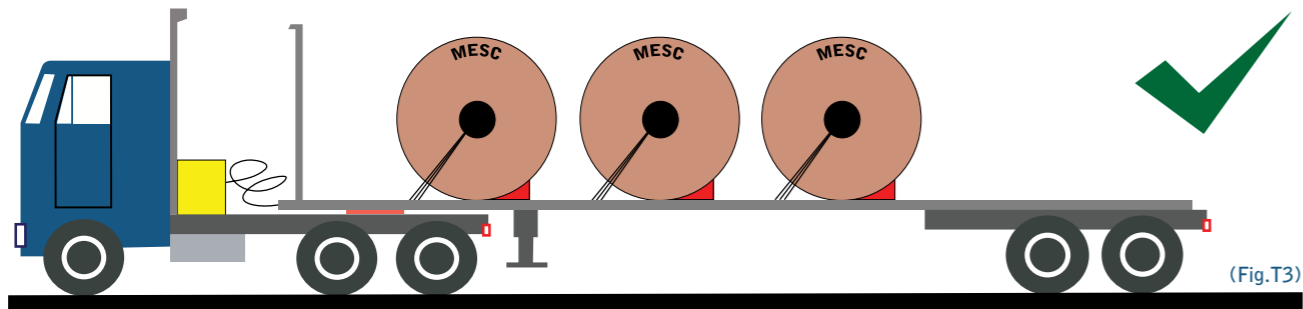
**Do not** place the drums flat on flange during transportation (Fig.T1)



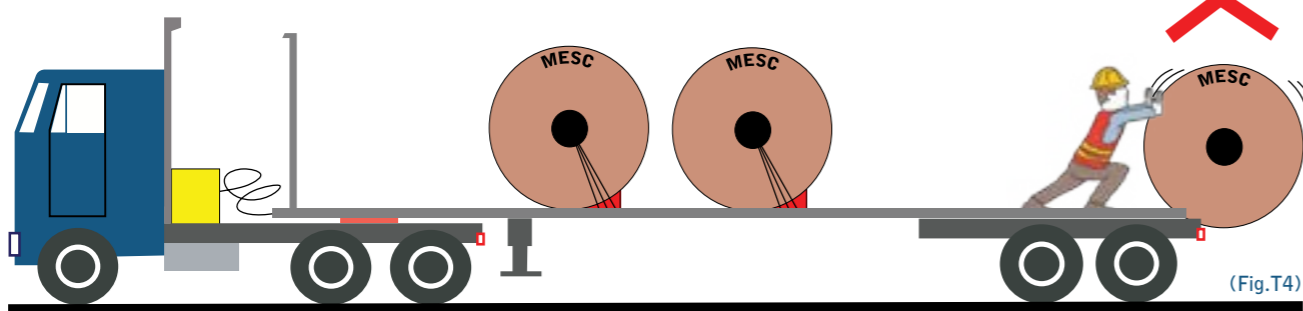
**Keep** the drums Up Right position and tie with chain/slings (Fig.T2)



**Secure** the drums with Wedges and Chains/Slings (Fig.T3)



**Do Not** drop the drums to offload from truck, use forklift or similar (Fig.T4)



## GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

### HANDLING

**Do not** lift the drums flat on flange while offloading or shifting (Fig.H1)



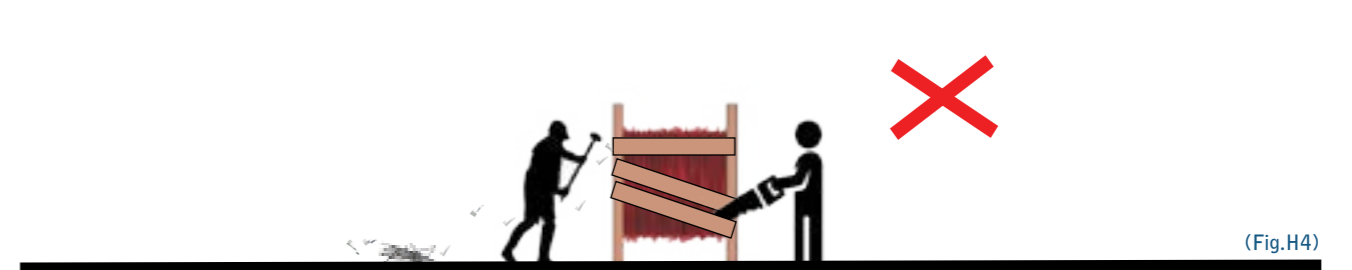
**Handle/ Transport** the drums with Flange Up Right position (Fig.H2)



**Roll** the drums in the direction of arrow only, never roll on opposite direction (Fig.H3)



**Use** right and appropriate tools to remove packing materials from the drum (Fig.H4)



## GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

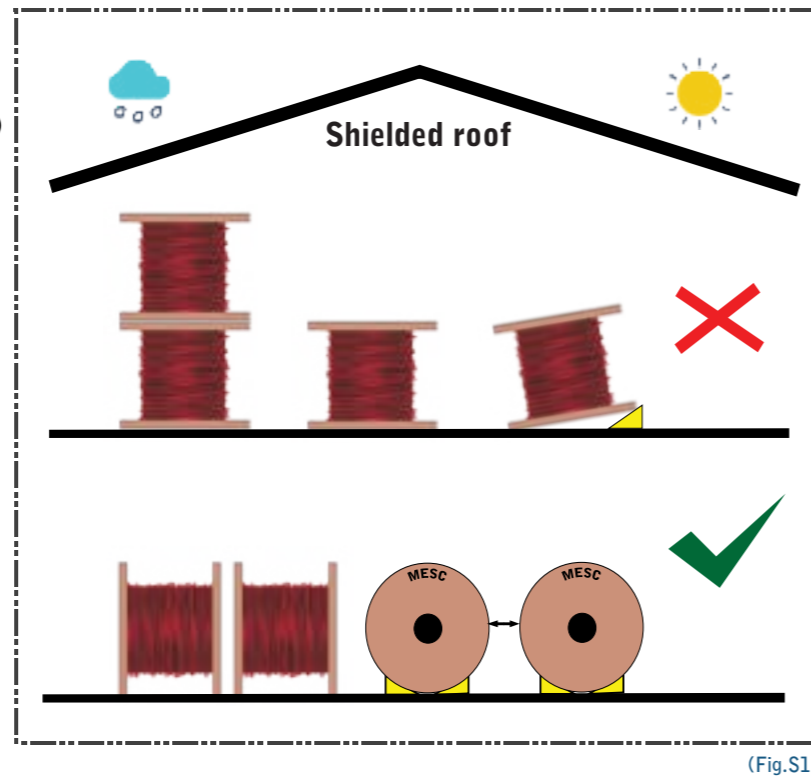
### STORAGE

**Keep** the Drums in Shaded area (Fig.S1)

**Do not** stack the Drums one over the other (Fig.S1)

**Do not** Keep the drums on sloped

**Use** drum stoppers ( e.g. wedges to )



(Fig.S1)

### Attention !

**1-** In case the cables are to be stored for long periods, ensure that the external thermal wrap is in place and do not keep the cable exposed to field conditions directly.

**2- LSHF/HFFR/LSF ( Low Smoke Zero Halogen)** Jacketed cables should be stored in shaded storage area and should avoid direct exposure to sunlight and rain water.

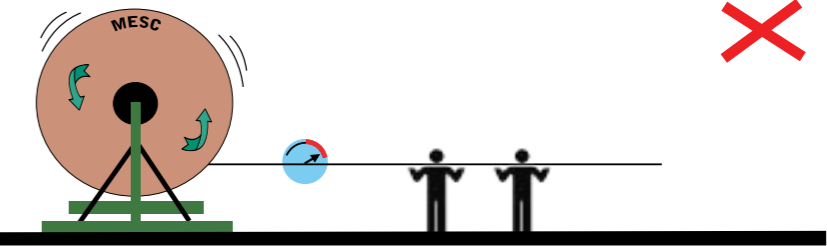
**3-** The cables shall be wound and kept on drums only. Cable shall not be stored in coil form.

**4-** Recommended storage temperature is : -150C to 550C

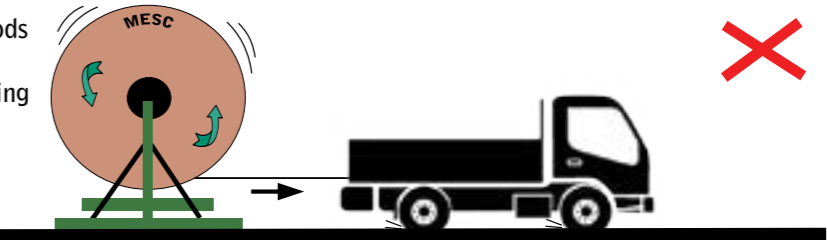
## GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

### INSTALLATION PRECAUTIONS

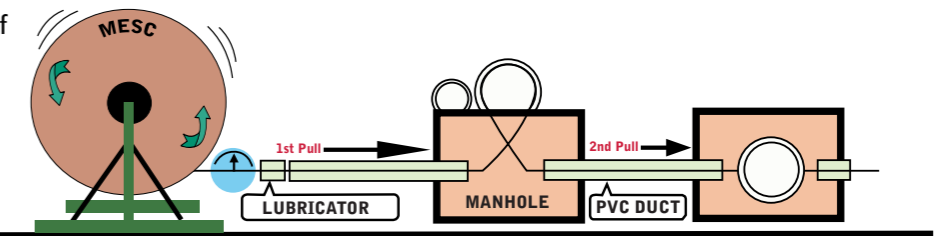
- Maintain proper direction
- Do not exceed the pulling force



- Do not pull with un-conventional methods
- Do not make sudden jerks while pulley
- Ensure use of proper rollers while pulling



- Keep the remaining Length of the cable outside the manhole in the shape of FIG-8 before next pulling



(Fig.8)

**1-** Recommended installation temperature : -50C to 550C

**2-** Never pull without pulling eye and do not exceed the prescribed max pulling tensions by continuous monitoring. Never pull out the cable in layers from a drum laid flat.

**3-** Pulling Tension (Kg) using pulling eye =  $7.16 \times \text{No. of conductors} \times \text{Sq.mm of conductor or}$

**4-** Pulling Tension (Kg) using cable grip =  $0.7(\text{friction coefficient}) \times \text{Jacket thickness( mm)} \times \text{Cable Outer Dia(mm)}$

**5-** For long and heavy pulls, apply pulling lubricants liberally.

**6-** Maintain proper direction for unwinding the cable drum

**7-** Accelerate slowly and smoothly to constant pulling speed providing smooth speed control.

**8-** Ensure that the bending radius is minimum :

- Armoured & Un-Armoured Cables :  $12 \times \text{Cable Overall Diameter}$
- Multilayer / Lead Sheath with Armored cable :  $20 \times \text{Cable Overall Diameter}$
- Offshore Cable Braid Armored Cables :  $8 \times \text{Cable Overall Diameter}$

**9-** Never subject it to sharp bends, leading to bird caging of armor and cracks.

**10-** Avoid pulling against sharp edges or contact with stones or other objects as it will lead to cracks in the outer sheath.

**11-** Use swivel tool in between pulling eye and pulling rope to avoid cable twisting.

**12-** Do not pull the cable directly from the sheath, ensure that the pulling force is distributed through the conductor or armor

## GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

### SPECIAL INSTRUCTIONS FOR LSHF/HFFR/LSF SHEATHED CABLES

#### IDENTIFICATION OF DRUMS

These cables identified by one ▲ or two ▲▲ red triangular marks on cable flange indicating that the cable is not with PVC or PE Sheathed cable. Single ▲ means the cable is un-armoured and double ▲▲ means armoured ▲▲ cables with LSHF/HFFR/LSF sheath.

#### IDENTIFICATION OF DRUMS

- 1-The cables should be stored in original packed condition and **avoiding direct exposure to sun light** it shall be stored under shade / tent / warehouse as far as possible.
- 2- Cables can be stored for a period of six months in original packed condition, After usage, the leftover cables length shall be packed as in original condition for further period of six months, and also cables can be stored under direct sunlight by covering the packed drums / re-packing the drums using tarpaulin cover .
- 3- Inherently these cables have lower tear strength property as compared to typical PVC/PE material, special care should be taken during installation to avoid any damage. Even a small cut on the LSHF sheath can result in sheath cracking, as it will easily extend due to lower tear strength property of LSHF sheath.
- 4- Use pay in rollers and corner rollers of a non-metallic material (e.g. Nylon or Teflon) at least every 3 to 4 meters while laying the cable.
- 5-If any pulling greases or lubricants are used, the installer must ensure compatibility with the sheath material.
- 6- Do not pull the cable directly from the sheath, ensure that the pulling force is distributed through the conductor or armor metallic parts, preferably with pulling eye or cable grip.
- 7-The cables should not come in contact with any hot surface and also recommended installation temperature shall not be exceeded .
- 8-When cable tray installation is used, avoid the sheath contact with any sharp objects. The requirement of minimum bending radius should be followed as given in page 4.
- 9- Any clamping device should not be applied directly on the outer sheath, there should be some cushion (for instance a rubber pad).

## GUIDELINES FOR CABLE DRUM HANDLING DURING TRANSPORT, STORAGE AND INSTALLATION

### INSTRUCTIONS FOR OFFSHORE CABLES

#### STORAGE AND INSTALLATION (SHF2, SW4 SHEATHED CABLE)

- 1- Short term(6 to 12 months) storage is same as stated above, however medium term (minimum 2 years with an objective of 5 years) and long term (more than 5 years) storage should be indoor.
- 2- Place cable rollers on cable tray/ladder at every two-meter distance and ensure that cables do not scrape the tray during installation.
- 3- Proper cable rollers, angle rollers and feed rollers must be used.
- 4- Before commencing cable laying proper bends should be used, and should be free of any sharp edges.
- 5- If coiling and uncoiling is required in multiple places for long route cables, Sufficient space for coiling of cable should be find out before starting pulling.
- 6- Upon pulling all coiled cables to be preserved from direct sunlight by using Tarpaulin and the cable end to be sealed properly.
- 7- Cables may be laid / pulled by hand. Where mechanical pulling machines to be used, the operation must be uniform, continuous and with minimum interruptions. The recommended pulling tension must be set on tension cut out protection (If provided on machine and as required).
- 8- Cable shall be strapped by PVC coated SS cable Ties on Ladder/Tray at intervals not exceeding 400mm for vertical run and 1000mm for horizontal run.
- 9- Cable Passing through deck shall be protected by kick plates or pipe sleeve in case of single cable.
- 10- Instruments cables shall be routed away from electrical cables with required minimum spacing as per client project design specification.

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