



MIDDLE EAST SPECIALIZED CABLES (MESC) PVC PLANT

As a part of Middle East Specialized Cables Company (MESC), the leading manufacturer of all instrumentation and control cables in the MENA region, has inaugurated our new plant for producing Polyvinyl Chloride (PVC) products in the heart of Middle East in Riyadh, Saudi Arabia, The state-of-the-art PVC Compounding Plant started its production in year 2012.

We are a leading manufacturer of premium PVC cable compounds for wide application in the cable industry. Our range of compounds is available for numerous applications for Power Cables, Control and Instrumentation Cables, Winding wire for submersible Pump Motor, Three Core Flat Cables, Appliance Cords, etc. Our PVC compounds are available for both insulation and sheathing. All compounds produced are in compliance with applicable international standards, i.e. IEC, ASTM, BIS and UL. Wire & Cable polymer hands-on & up-to-date knowledge on Instrumentation cable compounds.

These compounds are also used for House Wiring, Telecom Cables, Automotive Cables, etc. All our products & PVC compounds conform to standards as per ISO standards. Our compounds are manufactured from top quality Raw materials. One of our greatest strengths is our ability to formulate materials to exact customer specifications. With a fully equipped, on-site laboratory and a technical staff MESC Technologies has the tools and knowledge to focus on customers' individual needs – their specific applications and processing parameters. Additionally, we can meet customer demands for both small and large quantities - an asset that sets us apart from the competition. We have capability and sufficient infra-structure to handle export sales.



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MESC Cables & Wire PVC Compounds for Insulation

MESC Code	Product Description	Classification	Features						Density (g/cm ³) ASTM D-792	Tensile Strength (N/mm ²) BS EN 60811-1-1	Elongation at Break (%) BS EN 60811-1-1	Hardness (Shore A) DIN 53505	Insulation Resistance (MW.Km) IEC 60502-1	Thermal Stability Congo Red ISO 182/1	Mass Loss (mg/cm ²) ASTM D-537
			Temp. Rating	Heat Resist.	Flame Resist.	OR	Pb free	RoHS* Compliant							
M55501	PVC TYPE TI-1; CC-I 135	BS50363-3	70°C	-	VW-1	-	✓	-	1.48	≥12.5	≥125	85	≥0.037	>85	≤2.0
M55572	MESC -P 1390; CC-I 139	BS50363-3; UL 83	70°C	-	VW-1	-	✓	-	1.55	≥12.5	≥125	85	≥0.200	>85	≤2.0
M55551	PVC TYPE TI-1; CC-I 107	BS50363-3	70°C	-	VW-1	-	✓	✓	1.48	≥12.5	≥125	85	≥0.037	>85	≤2.0
M55502	PVC TYPE TI-2 flex; CC-I 225	BS50363-3	70°C	-	VW-1	-	✓	-	1.48	≥10.0	≥150	80	≥0.037	>85	≤2.0
M55553	PVC TYPE TI-2 flex; CC-I 206	BS50363-3	70°C	-	VW-1	-	✓	✓	1.48	≥10.0	≥150	80	≥0.037	>85	≤2.0
M55557	PVC TYPE TI-3 flex; CC-I 355	BS6004	90°C	-	VW-1	-	✓	✓	1.42	≥15.0	≥150	88	≥0.037	>240	≤1.5
M55558	PVC TYPE TI-3; CC-I 356	BS6004	90°C	-	VW-1	-	✓	✓	1.40	≥15.0	≥150	94	≥0.037	>240	≤1.5
M55563	MESC P-3530; CC-I 353	BS6004	105°C	-	LOI ≥30%	Type I	✓	✓	1.38	≥15.0	≥150	95	≥0.037	-	-
M55569	MESC P-4450; CC-I 445	BSEN50363; UL83; IEC 60332-1	105°C	-	VW-1	Type I	✓	✓	1.44	≥15.0	≥150	94	≥0.037	>240	≤1.5
M55509	PVC TYPE 105°C; CC-I 446	BSEN50363; UL83; IEC 60332-1	105°C	-	VW-1	Type I	✓	✓	1.40	≥10.3	≥150	92	≥0.037	>240	-

MESC Cables & Wire PVC Compounds for Inner & Outer Sheathing/Jacketing

MESC Code	Product Description	Classification	Features ⁽¹⁾										Density (g/cm ³) ASTM D-792	Tensile Strength (N/mm ²) BS EN 60811-1-1	Elongation at Break (%) BS EN 60811-1-1	Hardness (Shore A) DIN 53505	Thermal Stability Congo ISO 182/1	Mass Loss (mg/cm ²) ASTM D-537	Oxygen Index (%) ASTM D2863
			Temp. Rating	FR	SR	UV	OR	AT	UL	Lead free	RoHS* Compliant								
M55512	PVC TYPE TM-1, CC-S 135	BS 50363-3	70°C	VW1	-	-	-	-	-	-	✓	-	1.48	≥12.5	≥125	85	>85	≤2.0	-
M55556	PVC TYPE TM-1, CC-S 105	BS 50363-3	70°C	VW1	-	-	-	-	-	-	✓	✓	1.48	≥12.5	≥125	85	>85	≤2.0	-
M55503	PVC TYPE TM-2 flex CC-S 225	BS 50363-3	70°C	VW1	-	-	-	-	-	-	✓	-	1.48	≥10.0	≥150	80	>85	≤2.0	-
M55554	PVC TYPE TM-2 flex CC-S 206	BS 50363-3	70°C	VW1	-	-	-	-	-	-	✓	✓	1.48	≥10.0	≥150	80	>85	≤2.0	-
M55504	PVC TYPE TM-2 SW CC-S 235	BS 50363-3	70°C	VW1	-	-	-	-	-	-	✓	-	1.48	≥10.0	≥150	80	>85	≤2.0	-
M55552	PVC TYPE TM-2 SW CC-S 207	BS 50363-3	70°C	VW1	-	-	-	-	-	-	✓	✓	1.48	≥10.0	≥150	80	>85	≤2.0	-
M55559	PVC TYPE TM-3 flex CC-S 305 FR	BS 50363-4-1	90°C	VW1	-	-	-	-	-	-	✓	✓	1.43	≥10.0	≥150	88	>240	≤1.5	≥30
M55560	PVC TYPE TM-3 flex CC-S 355	BS 50363-4-1	90°C	VW1	-	-	-	-	-	-	✓	✓	1.43	≥10.0	≥150	88	>240	≤1.5	-
M55555	PVC TYPE TM-5 flex CC-S 525	BS 50363-3	70°C	-	-	-	I & II	-	-	-	✓	✓	1.38	≥10.0	≥150	85	>85	≤2.0	-
M55514	PVC TYPE 6 - CC-F 600	BS 7655-4	70°C	VW1	-	-	-	-	-	-	✓	-	1.60	≥10.0	≥150	84	>85	≤1.5	-
M55505	PVC TYPE-9, ST2 CC-S 958 GP	BS7655 IEC-ST2, BS 50363	90°C	VW1	-	-	-	-	-	-	✓	-	1.48	≥12.5	≥150	92	>85	≤1.5	-
M55570	PVC TYPE-9, ST2 CC-S 900 GP	BS7655 IEC-ST2, BS 50363	90°C	VW1	-	-	-	-	-	-	✓	✓	1.48	≥12.5	≥150	92	>85	≤1.5	-
M55506	PVC TYPE-9, ST1 CC-S 956 GP	BS7655 IEC-ST1, BS 50363	90°C	VW1	-	-	-	-	-	-	✓	-	1.48	≥12.5	≥150	92	>85	-	-
M55561	PVC TYPE-9, ST1 CC-S 959	BS7655 IEC-ST1, BS 50363	90°C	VW1	-	-	-	-	-	-	✓	✓	1.48	≥12.5	≥150	92	>85	-	-
M55507	PVC TYPE-9, ST2 CC-S 987 FRAT	BS7655.IEC-ST2, BS 50363	90°C	✓	-	-	-	✓	-	-	✓	✓	1.48	≥12.5	≥150	92	>85	≤1.5	≥30
M55508	PVC TYPE-9, ST2 CC-S 986 FRSRORAT	BS7655.IEC-ST2, BS 50363	90°C	✓	✓	✓	I	✓	-	-	✓	-	1.48	≥12.5	≥150	92	>85	≤1.5	≥30
M55571	PVC TYPE-9, ST2 CC-S 910 FRSRORAT	BS7655.IEC-ST2, BS 50363	90°C	✓	✓	✓	I	✓	-	-	✓	✓	1.48	≥12.5	≥150	92	>85	≤1.5	≥30
M55510	PVC TYPE 105°C, CC-S 555	UL 62; UL QM TT2	105°C	✓	✓	✓	I	✓	✓	✓	✓	✓	1.38	≥15.0	≥250	86	>200	-	≥30
M55562	PVC TYPE TM-53 CC-S 545	IEC 60332-3	90°C	✓	✓	✓	I	✓	-	-	✓	✓	1.50	≥15.0	≥150	92	>240	≤1.5	≥30

⁽¹⁾ FR: Flame Retardant, AT: Anti-Termite, UV: Ultra Violet, SR: Sun Resistant, OR: Oil Resistant Type I&II, UL: UL listed

*RoHS regulations are designed to limit or eliminate substances that are dangerous to the environment and to people. Inadequately treated e-waste poses environmental and health risks. The RoHS directive is also meant to increase the amount of e-waste that is appropriately treated and to reduce the volume that goes to disposal. In case you are interested in RoHS compliant wire & cables compounds MESC do offer the range on demand. www.mescables.com

Note: Typical properties, these are not to be construed as specifications.