


Test Report

Reference No.	047 971394	This Report consists of 10 pages
Client	MESC 2nd Ind. City Phase 3 PO Box 60536 Riyadh 11555 Saudi Arabia	
Authority & date	Clients order no TE/97/1394	
Items tested	Two samples of electric cable 1 x 2.5mm ² ; 1 x 70 mm ²	
Specifications	BS 6004:1995 Table 1a	
Results	The samples submitted complied with the requirements of the Standard for those tests which were requested	
Prepared by	S. Macdonnell	
Authorized by		B. Hall
Issue Date	21 JANUARY 1998	
Conditions of issue	This Test Report is issued subject to the conditions stated in current issue of <i>Test Leaflet 1</i> 'General conditions relating to acceptance of testing'. The results contained herein apply only to the particular sample's tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Director, BSI Product Testing, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.	



TESTING
No. 0135

1) Introduction

This report relates to tests conducted on 2 samples of electric cable submitted by Middle Eastern Specialised Cable Co. of Riyadh, Kingdom of Saudi Arabia. This report applies only to the particular samples tested and to the specific tests carried out and detailed within the report. It does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of these or any related products.

2) Samples

The client submitted two samples of electric cable:-
1 x 2.5mm²; 1 x 70 mm²

3) Testing

The samples submitted were subjected to the tests specified in BS 6004:1995 Table 1a

4) Results

The results of the tests carried out are detailed in the following pages of this Report

5) Conclusion

The samples submitted complied with the requirements of the Standard for those tests which were requested

TESTING OF CABLE MANUFACTURED TO BS 6881: TABLE 1

Circular Cable 1 core Conductor size : 2.5 sq. mm

ASSESSMENT

Indication of origin

Marking printed on insulation :-
NYA 2.5mm² 450/750 VOLTS MESC

PASS

Legible :- PASS Durable :- PASS Repeat interval :- 262 mm. PASS

PASS

Construction

Outer Covering : BLACK INSULATION
Type of conductor : PLAIN ANNEALED Cu
Filler : NONE
Circuit Protective Conductor : N/A

Overall assessment of construction

PASS

Voltage test on non sheathed cable @ 2500 V

PASS

Date samples received :- 24-11-97
Date job raised :- 05/11/97

Testing commenced :- 08/01/98
Testing completed :- 21/01/98

Tested by :- S Macdonnell
Checked by :- B Hall

N/A = not applicable; NR = not requested; NT = not tested

Report produced using software KEPTL, version 1.0.16.97

TESTING OF CABLE MANUFACTURED TO BS 6843 PART 1

Circular Cable 1 core

Conductor size : 2.5 sq. mm

ASSESSMENT

Tests on individual cores

<i>Core I.D. and sequence</i>	BLACK	PASS
<i>Core colour indelibility</i>	P	PASS
Conductors		
	7	PASS
<i>Class of conductor</i>	2	PASS
<i>Resistance (ohms / km)</i>	6.34	PASS
Insulation Thickness		
<i>Mean (mm)</i>	0.820	PASS
<i>Min. (mm)</i>	0.73	PASS

Heat shock test

Cores PASS PASS

Date samples received :- 24-11-97
Date job raised :- 05/11/97

Testing commenced :- 08/01/98
Testing completed :- 21/01/98

Tested by :- S Macdonnell
Checked by :- B Hall

N/A = not applicable; N/R = not requested; N/T = not tested

Report produced using software F2PTL version : 21.01.97

TESTING OF CABLE MANUFACTURED TO BS 6841:1998 TABLE 11

Circular Cable 1 core Conductor size: 2.5 sq. mm

ASSESSMENT

Tests on complete cable

Mean Overall Diameter Circular Cable :- (mm) 3.6 PASS
Fire performance test PASS

Tensile tests on Cores

Compound	T11	
Core I.D. and sequence	BLACK	
Tensile strength unaged (N/mm ²)	16.1 P	
Elongation at Break - unaged (%)	136 P	
Tensile strength, aged 80 C (N/mm ²)	15.9 P	
% Var Tensile Strength, aged 80 C	1 P	
COMPATIBILITY Tensile Strength after ageing	0 N/A	
COMPATIBILITY Elongation @ break after ageing	0 N/A	
COMPATIBILITY % Var Tensile Strength	0 N/A	
COMPATIBILITY % Var Elongation at break	0 N/A	
Elongation @ break after ageing 80 C (%)	137 P	
% Var. Elongation @ break after ageing 80 C	1 P	
Assessment of tensile tests on cores		PASS

Date samples received :- 24-11-97
Date job raised :- 05/11/97

Testing commenced :- 08/01/98
Testing completed :- 21/01/98

Tested by :- S Macdonnell
Checked by :- B Hall

N/A = not applicable; NR = not requested; NT = not tested

Report produced using software REPTL version: 21/04/97

TESTING OF CABLE MANUFACTURED TO BS 604:1995 TABLE 1a

Circular Cable 1 core

Conductor size : 2.5 sq. mm

ASSESSMENT

Tests on individual cores

Compound	TI 1		
Core I.D. and sequence	BLACK		
Insulation resistance constant @ 70 C Mohms.km	.59		PASS
Cold Bend @ -15 C	P		PASS
Loss of mass mg/cm ²	.09		PASS
Cold elongation @ -15 C MIN. elongation %		N/A	
Cold Impact test @ - 15 C	P		PASS
Hot pressure	15		PASS
Insulation Resistance @ 20 C		N/A	
Tensile Strength on Neutral conductor (N/sq mm)		N/A	
Elongation at Break on Neutral conductor (%)		N/A	
Voltage test on cores @ 1500 Volts.		N/A	
Insulation resistance @ 70 C (M.ohms / 1000 m.) :	0.235		PASS
Resistance of insulation to D.C. :	P		PASS

The sample complied with the requirements of the standard

Date samples received :- 24-11-97

Testing commenced :- 08/01/98

Tested by :- S Macdonnell

Date job raised :- 05/11/97

Testing completed :- 21/01/98

Checked by :- B Hall

N/A = not applicable; NR = not requested; NT = not tested

Report produced using software SEPTL, version : 21-08-97

TESTING OF CABLE MANUFACTURED TO BS 6004:1995 TABLE 1c

Circular Cable 1 core Conductor size : 70 sq. mm

ASSESSMENT

Indication of origin

Marking printed on insulation :-
NYA 70mm² 450/750V MESC1997

PASS

Legible :- PASS Durable :- PASS

Repeat interval :-

Not assessed at
clients request

PASS

Construction

Outer Covering : BLACK INSULATION
Type of conductor : PLAIN ANNEALED Cu
Filler : NONE
Circuit Protective Conductor : N/A

Overall assessment of construction

PASS

Voltage test on non sheathed cable @ 2500 V

PASS

Date samples received :- 24-11-97

Testing commenced :- 08/01/98

Tested by :- S. Macdonnell

Date job raised :- 05/11/97

Testing completed :- 21/01/98

Checked by :- B. Hall

N/A = not applicable; N/R = not requested; N/T = not tested

Report produced using mtrwin REPORT, version: 21/08/97

MANUFACTURED TO BS 6004:1995 TABLE 1a

Conductor size : 70 sq. mm

ASSESSMENT

cores

BLACK	PASS
P	PASS
19	PASS
2	PASS
0.246	PASS
1.540	PASS
	PASS

PASS PASS

ASSESSMENT

	PASS
N/A	
	PASS
	PASS
	PASS
	PASS
N/A	
N/A	
N/A	
N/A	
	PASS
	PASS

Tested by :- S Macdonnell
Checked by :- B Hall

Tested on : 21/01/98

Tested on : 11-11-97
Testing commenced :- 08/01/98
Testing completed :- 21/01/98

Tested by :- S Macdonnell
Checked by :- B Hall

NT = not tested

Report prepared using software ZEPHYR version : 21/04/97

TESTING OF CABLE MANUFACTURED TO BS 684:1993 TABLE 1a

Circular Cable 1 core Conductor size : 70 sq. mm

ASSESSMENT

Tests on complete cable

Mean Overall Diameter Circular Cable :- (mm)	13.5	PASS
Fire performance test		PASS

Tensile tests on Cores

Compound	T11		
Core I.D. and sequence		BLACK	
Tensile strength unaged (N/mm ²)		19.7 P	
Elongation at Break - unaged (%)		242 P	
Tensile strength, aged 80 C (N/mm ²)		18.9 P	
% Var Tensile Strength, aged 80 C		4 P	
COMPATIBILITY Tensile Strength after ageing	0	N/A	
COMPATIBILITY Elongation @ break after ageing	0	N/A	
COMPATIBILITY % Var Tensile Strength	0	N/A	
COMPATIBILITY % Var Elongation at break	0	N/A	
Elongation @ break after ageing 80 C (%)		254 P	
% Var. Elongation @ break after ageing 80 C		5 P	
Assessment of tensile tests on cores			PASS

Date samples received :- 24-11-97
Date job raised :- 05/11/97

Testing commenced :- 08/01/98
Testing completed :- 21/01/98

Tested by :- S Macdonnell
Checked by :- B Hall

N/A = not applicable; N/R = not requested; N/T = not tested

Report produced using software RSPTE, version: 21/01/97