
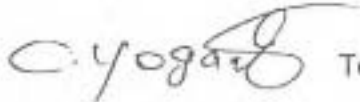


Test Report

Report No	243/4669209	This Report consists of 3 pages
Client	MESC Specialized Cables P O Box 585 Riyadh-11383 Kingdom of Saudi Arabia	
Authority & date	Clients order dated 12 February 2005	
Items tested	1 sample of Type 9 FR sheath	
Specification	ICEA S-82-552, clause 6.9.3 Oil immersion test only	
Results	The sample submitted complied with the requirements of clause 6.9.3 Oil immersion test	
Prepared by	C R Mead 	Technician
Authorized by	C Yogaratnam 	Technical Engineer
Issue Date	01 March 2005	
Conditions of issue	This Test Report is issued subject to the conditions stated in current issue of PS082 '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 Managing Director, BSI Product Services, 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.	

1) Introduction

This report relates to tests conducted on a sample of sheath submitted by Middle East Specialized Cables, Kingdom of Saudi Arabia.

This report applies only to the particular sample 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 this or any related products.

2) Samples

The client submitted one sample of Black sheath as detailed below;

Size:- 1Px2.5 mm² CU/PVC/LC/SWA/PVC
Sheath Compound:- PVC Type 9FR

3) Testing

The sample submitted was subjected to the tests specified in ICEA S-82-552.
The client requested to test only unaged and oil immersion tensile test.

4) Results

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

5) Conclusion

The sample submitted complied with the requirements of clause 6.9.3 oil immersion test to ICEA S 82-552.

TENSILE TEST RESULTS ON PVC Type 9FR (APC)

Test speed - 250 mm/min
Gauge length - 20 mm

Unaged Tensile strength (N/mm ²) 17.8 18.4 18.7 17.9 18.0 Median = 18.0	Elongation (%) 318 276 278 306 283 Median = 283
Oil immersion @ 70°C for 4 hours Tensile strength (N/mm ²) 15.7 16.1 16.0 16.4 15.7 Median = 16.0	Elongation (%) 187 176 178 196 180 Median = 180
Tensile variation (%) = - 11	Elongation variation (%) = - 36

Test speed - 500 mm/min (as specified in ICEA S-82-552)
Gauge length - 20 mm

Unaged Tensile strength (N/mm ²) 18.7 18.4 18.4 18.4 18.4 Median = 18.4	Elongation (%) 311 301 305 275 311 Median = 305
Oil immersion @ 70°C for 4 hours Tensile strength (N/mm ²) 15.9 16.3 16.4 16.4 15.9 Median = 16.3	Elongation (%) 220 186 194 194 193 Median = 194
Tensile variation (%) = - 11	Elongation variation (%) = - 36

Date samples received:- 18/02/05	Testing commenced:- 18/02/05	Tested by:- C.R.Mead
Date job raised:- 18/02/05	Testing completed:- 25/02/05	Checked by:- C.Yogarajnam
N/A = Not Applicable	N/R = Not Requested	N/T = Not Tested
		N/A* = Not Assess