



CABLES LABORATORY
DIAGNOSTIC, CABLES & CAPACITORS DIVISION
CENTRAL POWER RESEARCH INSTITUTE

P.B.NO.8066, SADASHIVANAGAR SUB P.O
PROF.SIR.C.V.RAMAN ROAD,BANGALORE - 560 080, INDIA
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CPRI

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TEST REPORT

Test Report Number : DCCD-11440 **Dated** : 10.05.2010

Name & Address of the Customer : M/s RPG Cables Ltd.,
Hebbal Industrial Area, Hootagalli,
Belavadi Post, Mysore- 570018.

Name & Address of the Manufacturer : M/s RPG Cables Ltd.,
Hebbal Industrial Area, Hootagalli,
Belavadi Post, Mysore- 570018.

Particulars of sample tested : 3 X 16 mm² , Copper Conductor, XLPE insulated, Galvanised
Formed Wire armoured 1.1 kV FRLSH sheathed Cable
Embossing: MAR 2010 3CX 16 SQ.MM XLPE FR-LSH 1100 VOLTS
GT 9768617055

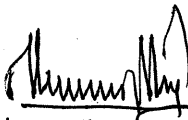
Condition of the sample on receipt : New.
Type : LT Cable
Designation : XLPE Armoured Cable
Serial Number : NIL
Number of Samples tested : One
Date(s) of Test(s) : 12.04.2010 to 26.04.2010
CPRI Sample Code no(s) : DCCDCAB10S0023

Particulars of test conducted : Accelerated Water Absorption Test
Test in accordance with
Standard /Specification : As per NEMA WC -7-1988
Sampling plan : Not Applicable
Customer's requirement : Nil
Deviation if any : Nil

Name of the witnessing persons
Customer's representatives : None
Other than customer's representatives : None

Test subcontracted with address
of the laboratory : Nil

Documents constituting this report (in words)
Number of sheets : Three
Number of oscillogram/s : Nil
Number of graphs : Nil
Number of photos : Nil
Number of test circuit diagrams : Nil
Number of drawings : Nil


(Thirumurthy)
Test Engineer




(S.Ramaprasath)
Joint Director

AUTHORISED SIGNATORIES



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TEST REPORT

Test Report No.:DCCD-11440

Date: 10.05.2010

TEST RESULTS

I. Accelerated Water Absorption Test:

The cores were separated for a length of 4.57 metres and immersed in water (Except the ends) for a length of 3.05 metres in a water bath of 75 ± 1 Deg.C for a duration of 14 days. The water level was maintained constant through out the test. The Capacitance of the insulation was measured at an average stress of 40 Volts/mil and 80 V /mil after 1,7 and 14 days of immersion. The power factor was measured at 50 Hz after 14 days of immersion at 40 V/mil and 80 V/mil.

Core Identification	Voltage (kV)	Observed Capacitance values in pF			Observed Percentage variations (%)		Specified Percentage Variations(%) (Max)	
		After 1 st day	After 7 th Day	After 14 th day	From 1 to 14 days	From 7 to 14 days	From 1 to 14 days	From 7 to 14 days
Red	2.20	1204.5	1215.7	1232.5	2.32	1.38	3.0	1.5
	4.40	1236.7	1255.8	1273.5	2.98	1.41		
Yellow	2.10	1255.6	1273.2	1289.5	2.70	1.28		
	4.20	1265.5	1282.5	1299.6	2.69	1.33		
Blue	1.95	1275.5	1295.6	1310.9	2.78	1.18		
	3.90	1283.5	1299.3	1312.5	2.26	1.02		

II. Stability Factor after 14 Days of ageing :

Sl.No	Core Identification	Stability Factor after 14 days of ageing	
		Observed (%)	Specified (%)(Max)
1	Red	0.89	1.0
2	Yellow	0.82	
3	Blue	0.90	

III. Dielectric Constant after 1 day of ageing :

Sl.NO	Core Identification	Dielectric Constant after 1 day of ageing	
		Observed	Specified (Max)
1	Red	2.77	6.0
2	Yellow	2.88	
3	Blue	2.96	


(Thirumurthy)
TEST ENGINEER



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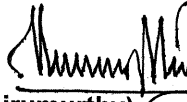
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NOTE

- a) The Test results relate only to the item(s) tested.
- b) Publication or reproduction of this report in any form other than by complete set of the whole report and in the language written, is not permitted without the written consent of CPRI.
- c) Any Corrections/erasure invalidates this test report.
- d) Any anomaly/discrepancy in this test report should be brought to our notice within 45 days from the date of issue.


(Thirumurthy)
TEST ENGINEER