

Test Report

BASEC Client **National Cables Industry**

P.O. Box 27472
Al Dhaid Road, Al Sajja Ind. Area
Sharjah
United Arab Emirates

Report No. **NAC088D**

Number of pages in this Report:

Issue Date **14 September 2015**

Items Tested 1 sample of Electric Cable

Specification(s) BS EN 50525-2-31:2011
BASEC PCR Issue 7

Test Results The sample submitted complied with the requirements of the specification for the tests which were requested.

Authorised by: I McGuinness



Laboratory Manager

Issue Date: 14 September 2015

The results presented in this Test Report relate only to the items tested and to the specific tests carried out. This Test Report does not represent any Approval or Certification by BASEC of the product or of the associated manufacturer. This test Report shall not be reproduced except in full, without written approval of the laboratory.

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Sample 1 sheet 1

TESTING OF CABLE MANUFACTURED TO BS EN 50525-2-31:2011 Clause 4.1

Circular cable	1 core	Conductor size: 6.0 sqmm
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F100 TESTS

ASSESSMENT

Indication of origin

1 X 6mm² CU/PVC 450/750V H07V-R BS EN 50525-2-31 (BS 6004). National Cables Industry, UAE PASS*

*Indication of origin assumed as no information available

Legible:- PASS Repeat interval:- 266 mm PASS Durable:- PASS PASS

Construction

Outer Covering: BLACK INSULATION
Type of conductor: PLAIN ANNEALED Cu

Application of insulation PASS

Overall assessment of construction PASS

NOTE: Where appropriate, values shown in italics indicate specification requirements

Date samples received: 14/08/15	Date testing commenced: 27/08/15	Tested by: C Clarke
Date job raised: 25/08/15	Date testing completed: 14/09/15	Checked by: I McGuinness
N/A = Not Applicable	N/R = Not Requested	N/T = Not Tested
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Sample 1 sheet 2

TESTING OF CABLE MANUFACTURED TO BS EN 50525-2-31:2011 Clause 4.1

Circular cable	1 core	Conductor size: 6.0 sqmm
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F100 TESTS

ASSESSMENT

Tests on individual cores

Core I.D. and sequence	Black	PASS
Green/Yellow Proportion	N/A	N/A
Core colour indelibility	P	PASS
Conductors		
Number of wires	7	PASS
Class of conductor	2	PASS
Resistance (ohms/km)	2.96	PASS
Insulation Thickness		
Mean (mm)	0.83	PASS
Min (mm)	0.72	PASS

Overall assessment of F100 tests:	PASS
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F50 TESTS

ASSESSMENT

Heat shock test

Cores	PASS	PASS
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Overall assessment of F50 tests:	PASS
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Sample 1 sheet 3

TESTING OF CABLE MANUFACTURED TO BS EN 50525-2-31:2011 Clause 4.1

Circular cable	1 core	Conductor size: 6.0 sqmm
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F25 TESTS

ASSESSMENT

Tests on complete cable

Voltage test on non sheathed cable @ 2500 V ac	PASS
Mean Overall Diameter Circular Cable:- 4.7(mm)	PASS
Ovality (Max. difference between diameters 0.0(mm))	PASS
Flame propagation single cable	PASS

Tensile tests on Cores

Compound	TI1
Core I.D. and sequence	Black
Tensile strength unaged (N/mm ²)	19.3
Elongation at Break-unaged (%)	219
Tensile strength, aged 80 °C (N/mm ²)	19.2
% Var Tensile strength, aged 80 °C	-1
Elongation @ break after ageing 80 °C (%)	221
% Var.Elongation @ break after ageing 80 °C	1

Assessment of tensile tests on cores PASS

Overall assessment of F25 tests:

PASS

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Sample 1 sheet 4

TESTING OF CABLE MANUFACTURED TO BS EN 50525-2-31:2011 Clause 4.1

Circular cable	1 core	Conductor size: 6.0 sqmm
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F5 TESTS

ASSESSMENT

Compound	TI1	
Core I.D. and sequence	Black	
Cold Bend @ -15 °C	P	PASS
Cold Impact @ -5 °C	P	PASS
Loss of mass mg/cm ²	0.16	PASS
Hot pressure %	13	PASS
Insulation resistance @ 70°C (Mohms.km)	0.295	PASS
Resistance of insulation to D.C	P	PASS

Overall assessment of F5 tests:	PASS
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