

Test Report 8730197.


ARDIC Cable Management Systems

Introduction.

This report has been prepared by Lucie McGill and relates to the activity detailed below:

Job/Registration Details	Client Details
Job number: 8730197 Job type: Testing Samples Submitted Start Date: 25/08/2017 Test type: Direct Sample ID: 10171154 Registration: NA Protocol: NA Quality system: NA Registration: NA Protocol: NA Quality system: NA	ARDIC Cable Management Systems Gunesli Mahallesi, Gulbahar Cad. Polat IS Merkezi C Blok D:8 Merkezi C Blok D:8, Bagcilar Istanbul 34212 Turkey

The report has been approved for issue by Mark Manito – Team Manager

Approved For Issue	
	Issue Date: 12 September 2017

Objectives.

Direct test

Product Scope.

Class 4 GI Conduit

Report Summary.

The samples were received on 20 July 2017 and the testing was started on 26 August 2017.

The samples submitted complied with the requirements of the test work conducted.

Test Samples.

Sample Id	ER Number	Description
1	10171154	GI Conduit

Description of Test Samples.

Sample Description
20mm Diameter Class 4 GI Conduit and couplers
25mm Diameter Class 4 GI Conduit and couplers
32mm Diameter Class 4 GI Conduit and couplers

Test Requirements.

BS EN 61386-1:2008 + Results Table - Conduit Systems for Cable Management – (Pt 21 Particular Requirements - Rigid Conduit Systems)

Clause	Requirements	
10	Mechanical properties	
10.2	Compression	PASS
10.3	Impact test	PASS
10.7	Tensile test	PASS
14.2	Resistance against corrosion	PASS
Results table	Actual test results <i>See Table A - BS EN 61386-1 2008 +Pt 21 Rigid Conduit</i>	

Glossary of Terms.

PASS: Complies. Tested by BSI engineers at BSI laboratories.

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Table A - BS EN 61386-1 2008 + Pt 21 Rigid Conduit

Test Results.

CLAUSE

10. MECHANICAL PROPERTIES

10.2 Compression test

The Conduits were tested in accordance with the method described in this clause. When a force of 4000N (Very heavy grade) was applied, the samples did not exceed 25% of the initial outside diameter

Test item	Sample	Compression (%)
20mm conduit	1	2.93
	2	3.14
	3	2.89
	Mean	2.99
25mm conduit	1	2.53
	2	2.30
	3	2.56
	Mean	2.46
32mm conduit	1	2.59
	2	2.42
	3	2.32
	Mean	2.44

The Force and the intermediate piece were then removed and, 60s after removal, the outside diameter of the samples, where they have flattened, were measured again. The difference between the initial diameter and the diameter of the flattened samples did not exceed 10% of the outside diameter, measured before test

Test item	Sample	Change in diameter (%)
20mm conduit	1	0.64
	2	0.68
	3	0.41
	Mean	0.58
25mm conduit	1	0.49
	2	0.36
	3	0.47
	Mean	0.44
32mm conduit	1	0.44
	2	0.26
	3	0.37
	Mean	0.36

Test Results (Continued).

CLAUSE

10. MECHANICAL PROPERTIES (CONTINUED)

10.3 Impact test

The Conduits were tested at -45°C in accordance with the method described in this clause. After the test, the samples showed no cracks visible to normal or corrected vision without magnification. It was possible to pass the appropriate gauges through the samples

Test item	Mass Used (kg)	Drop height (mm)	No. out of failures 12
20mm conduit	6.8	300 (Very heavy grade)	0
25mm conduit	6.8	300 (Very heavy grade)	0
32mm conduit	6.8	300 (Very heavy grade)	0

10.7 Tensile test

The conduits and couplers were tested in accordance with the method described in this clause. When a tensile force of 2500N (Very heavy grade) was applied for 2 mins the conduit remained properly assembled to the couplers and there was no damage visible to normal or corrected vision without magnification

Test item	Actual Force Held (N)
20mm conduit/coupler	>2500
25mm conduit/coupler	>2500
32mm conduit/coupler	>2500

14.2 Resistance against corrosion

14.2.2 Tests for resistance to corrosion for steel conduit systems

The conduits were tested in accordance with the method described in clause 14.2.2.3 for high protection.

The 20mm and 25mm diameter conduits did not display any signs of corrosion

*** End of Report ***