

TEST REPORT

EN 61537:2007

Cable management — Cable tray systems and cable ladder systems Clause 11.1 - Electrical continuity

1656.001.3.02
18/03/2019
8
ELVAN S.A.
20km Lavriou Ave. GR-190 02, Paiania, GREECE
EN 61537:2007 Clause 11.1
As above mentioned clause of standard
NA
TRF EN 61537_P1
Labor S.A.
18/03/2019
Hot-dip Galvanized Cable Tray System
CABLE TRAYS - SUPPORT SYSTEMS
Same as applicant
200X60X0,6 PG
Approved by (name + signature) : <u>ANTONIOS POLITIS</u> ELECTRICAL ENGINEER LAB MANAGER

LABOR S.A. 84, ETHNIKIS ANTISTASEOS STR. – 15351 PALLINI – GREECE TEL.: +30-210-60.33.377 – FAX: +30-210-60.33.378 e-mail: labor@labor.gr, website: www.labor.gr

TRF EN 61537_P1

ΦΟ331-1 / ΟΔ 330



Testing procedure and testing location:	
☑ Testing Laboratory LABOF	RS.A.
Testing location/ address 84 ETH	INIKIS ANTISTASEOS STR 15351 PALLINI
Associated Testing Laboratory	
Testing location/ address NA	
List of Attachments (including a total number of p	ages in each attachment):
Summary of testing:	
Sample of the product has been tested according and complied with it's a	
Tests performed (name of test and test clause):	Testing location:
Clause 11.1 - Electrical continuity	LABOR S.A.
	84 ETHNIKIS ANTISTASEOS STR 15351
	PALLINI
Summary of compliance with National Differences	
Greece	
Copy of marking plate: The artwork below may be only a draft. The use of certification mar own these marks.	ks on a product must be authorized by the respective NCBs that



Test item particulars:

LABOR S.A. 84, ETHNIKIS ANTISTASEOS STR. - 15351 PALLINI - GREECE TEL.: +30-210-60.33.377 - FAX: +30-210-60.33.378 e-mail: labor@labor.gr, website: www.labor.gr



Possible test case verdicts::	
- test case does not apply to the test object:	NA (Not Applicable)
- test object does meet the requirement:	P (Pass)
- test object is not tested the requirement:	NT (Not Tested)
- test object does not meet the requirement:	F (Fail)
Testing:	
Date of receipt of test item:	14/03/2019
Date (s) of performance of tests:	15/03/2019

General remarks:

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

This test report does not entitle to carry or approval any safety mark on this or similar(s) products.

General product information:

Hot-dip Galvanized Cable Tray System 200X60X0,6 PG



EN 61537 – Clause 11.1

Clause

Requirement - Test

Result - Remark

Verdict

11	Electrical properties		
11.1	Electrical continuity		
	Cable tray systems and cable ladder systems declared according to 6.3.2 shall have adequate electrical continuity to ensure equipotential bonding and connection(s) to earth if required according to the application of the cable tray system or of the cable ladder system.	See below	Ρ
	After treatment according to 11.1.1, compliance is checked by the test according to 11.1.2.	See 11.1.1 and 11.1.2	Р
	The samples and test set-up shall be as shown in Figure 9. If different types of coupling exist within the system, then they shall be tested separately	As shown in figure 9a	Ρ
11.1.1	All grease is removed from the parts to be tested, by cleaning with white spirit with a kauributanol value of 35 ± 5 .		-
	The parts shall then be dried, after which they are assembled and tested according to 11.1.2		-
	A current of 25 A \pm 1 A a.c. having a frequency of 50 Hz to 60 Hz supplied by a source with a no-load voltage not exceeding 12 V shall be passed through the length of the samples.		Р
	The voltage drop shall be measured between two points 50 mm each side of the coupler or integral coupling and again between two points 500 mm apart on one side of the joint as shown in Figure 9, and the impedances are calculated from the current and the voltage drops.	See Table 1	Р
	The calculated impedances shall not exceed 50 m Ω across the joint and 5 m Ω per metre without the joint.	See Table 1	Р

		Labor	s.a.
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EN 61537 – Clause 11.1

Report No.: 1656.001.3.02

Clause

Requirement - Test

Result - Remark

Verdict

11.1	Table 1 – Electri	Electrical continuity			
Point of me	asurement	1	2		
Votage (mv	/)	4,200	3,600		
Current (A)		25,000	25,100		
Impedance	e (mΩ)	0,168	0,143		
Limit (mΩ)		2,500	50,000		
Notes: See	below Figure 1 wh	ich illustrated the points of measu	irement		

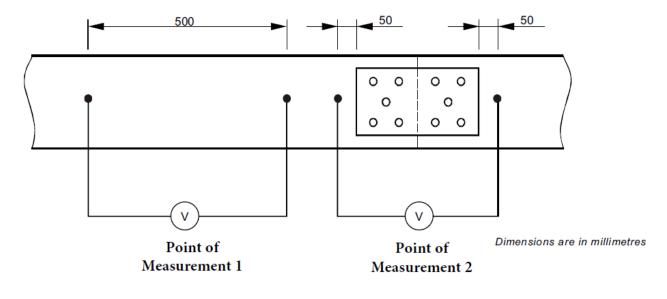


Figure 1 - Point's of measurement on cable tray system



