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IV. The list of used basis

- Order ev. Number LVD115372 at TESTROOF on 2015-08-21
- Contract Number LVD115372 dated 2015-08-21
- Particular protocol No. 15-0248/01/T1
- Particular protocol No. 15-0248/01/T2
- Particular protocol No. 15-0248/01/T3
- Particular protocol No. 15-0248/01/T4
- EN 60309-1:1999/A1:2007/AC:2014 Plugs, socket-outlets and couplers for industrial purposes -Part 1: General requirements

and Ce

The persons stated below are accountable for the accuracy of the above-specified data:

Elec. Eng. Ergün GIZ Test Engineer Murat KOÇAŞ

Manager of Testing Department



İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey

Particular protocol No:

15-0248/01/T1

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Inspection according to:

EN 60309-1:1999/A1:2007/AC:2014 art 19.2

Product / Type / Serial Number:

WPI-0302M15

Examination Engineer:

Ergün Cengiz

Date of Inspection

2015-09-04

Measuring instruments:

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
CE Multitester MI 2094	NFS1428001	14C01184	08.2016	

Requirement (*): EN 60309-1:1999/A1:2007/AC:2014 art 19.2 Insulation resistance test

The insulation resistance is measured with a d.c. voltage of approximately 500 V applied, the measurement being made 1 min after application of the voltage.

The insulation resistance shall be not less than 5 MΩ.

Method:

For socket-outlets and connectors, the insulation resistance is measured consecutively:

- a- between all poles connected together and the body, the measurement being made with and also without a plug-in engagement;
- b- between each pole in turn and all others, these being connected to the body, with a plug-in engagement
- c- between any metal enclosure and metal foil in contact with the inner surface of its insulating lining, if any, a gap of approximately 4 mm being left between the metal foil and the edge of the lining

Test Results

Used On			
(500V DC)	// 1	2	3
L-N	999.9	999.9	999.9
L-PE	999.9	999.9	999.9
N-PE	999.9	999.9	999.9

Status:

The measured resistance between the PE terminal and the points of test not to exceed the values given in standard.

Uncertanity of measure: It was not required.

Examination Engineer:
Name : Elec. Eng. Figur Cengiz
Signature:

Control: Murat Koçaş

İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey

Particular protocol No: 15-0248/01/T2 Page1/1

Inspection according to: EN 60309-1:1999/A1:2007/AC:2014 art 19.3

Product / Type / Serial Number: WPI-0302M15

Examination Engineer: Ergün Cengiz

Date of Inspection 2015-09-04

Measuring instruments:

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
CE Multitester MI 2094	NFS1428001	14C01184	08.2016	

Requirement (*): EN 60309-1:1999/A1:2007/AC:2014 art 19.3 Voltage Test

Method:

A voltage of substantially sine-wave form, having a frequency of 50 Hz/60 Hz and the value shown in table 5, is applied for 1 min between the parts indicated in 19.2.1 and 19.2.2.

Insulation voltage of the accessory 1 (V)	Test Voltage (V)	
Up to and including 50	500	
over 50 up to and including 415	2 000 2	
over 415 up to and including 500	2 500	
over 500	3 000	

1) The insulation voltage is at least equal to the highest rated operating voltage.

2) This value is increased to 2 500 V for metal enclosures lined with insulating material

Test Results:

Used On	Current in test circuit(mA) / Number of Measure					е
(2000V) R.I	1	2	3	4	5	6
Plastic -Live	0.0	0.0	0.0	0.0	0.0	0.0
Plastic -Live	0.0	0.0	0.0	0.0	0.0	0.0

Status:

No flashover or breakdown shall occur during the test

Uncertainity of measure: It was not required.

Examination Engineer:
Name : Elec. Figure Cengiz

Signature:

English and Central College of the C

Control: Murat Koçaş

İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey

Particular protocol No:

15-0248/01/T4

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Inspection according to:

EN 60309-1:1999/A1:2007/AC:2014 art 24.3

Product / Type / Serial Number :

WPI-0302M15

Examination Engineer:

Ergün Cengiz

Date of Inspection

2015-09-04

Measuring instruments:

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comm
Tape Measure	NFS0153002	15M150147	2016/07	

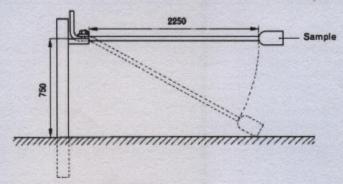
Requirement (*):EN 60309-1:1999/A1:2007/AC:2014 art 24.3
Arrangement for mechanical strength test for plugs and connectors

Method:

The free end of the cable, which is about 2,25 m long, is fixed to a wall at a height of 75 cm above the floor, as shown in figure 8.

The sample is held so that the cable is horizontal and then it is allowed to fall on to a concrete floor. This is done eight times, the cable being rotated through 45° at its fixing each time.

After the test, the samples shall show no damage within the meaning of this standard; in particular, no part shall have become detached or loosened



Test Results: No Damage

Status:

No part shall have become detached or loosened

Uncertianty of test: It was not required

Examination Engineer:

Name : Elec. Eng. Boun Cengiz

Signature:

Control:
Murat Koçaş

İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey Test report no. 15-0248/01

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TESTROOF ENGINEERING AND CERTIFICATION CO.LTD

İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir , İstanbul, Turkey

TEST REPORT No. 15-0248/01

Product:

Connectors

Type designation:

WPI-0302M15 - IP68 3-poles Electrical Cable Joint (2 Way) 15A - 240 V

Verification to:

2104/35/EU

EN 60309-1:1999/A1:2007/AC:2014

Manufacturer:

TTAF ELEKTRONIK SAN. VE TİC. LTD. ŞTİ.

Kavaklı Mah. İstanbul Cad. No:21 Beylikdüzü/İstanbul/TURKEY

Person responsible:

Elec Eng Ergün CENGIZ

Date of issue:

2015-09-04

Distribution list:

1x TESTROOF

1x Producer



İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey

Particular protocol No:

15-0248/01/T3

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Inspection according to:

EN 60309-1:1999/A1:2007/AC:2014 art 22

Product / Type / Serial Number:

WPI-0302M15

Examination Engineer:

Ergün Cengiz

Date of Inspection

2015-09-04

Measuring instruments:

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comm
CE Multitester MI 2094	NFS1428001	14C01184	08.2016	
Testo Thermometer 905-T2	NFS1428003	E 6102085	08.2016	

Requirement (*):EN 60309-1:1999/A1:2007/AC:2014 art 22 The temperature rise of terminals shall not exceed 50 K

Method:

The duration of the test is:

1 h for accessories having a rated current not exceeding 32 A:

2 h for accessories having a rated current exceeding 32 A but not exceeding 125 A;

3 h for accessories having a rated current exceeding 125 A.

The temperature is determined by means of melting particles, colour-changing indicators, or thermocouples which are so chosen and positioned that they have negligible effect on the temperature being determined.

Preferred r	ated current A	Test current A	nt Cross-sectional area(s) of the cor	
Series I	Series II	11	Plugs, appliance inlets Connectors mm²	Socket-outlets mm ²
16	20	22	2,51)	41)
32	30	42	6 ¹⁾	10
63	60	rated current	16	25
125	100	rated current	50	70
250	200	rated current	150	185²

1) For accessories having a rated operating voltage not exceeding 50 V, the values are increased to 10.

2) 150 mm² for 200 A accessorie of series II.

Examination Engineer: Name

: Elec. Eng.

Signature:

Murat Koçaş

İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey Test report no. 15-0248/01

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The tests have been carried out by virtue of the following documents:

- Order ev. Number LVD115372 at TESTROOF on 2015-08-21
- Contract Number LVD115372 dated 2015-08-21

I. Description of product

WPI-0302M15 - IP68 3-poles Electrical Cable Joint (2 Way) 15A - 240 V



II. Tested sample

- number of samples: 1

- date of submission:

2015-04-09

- Model No.:

WPI-0302M15

Inspection, tests and evaluations were performed in TESTROOF ENGINEERING AND CERTIFICATION CO.LTD., İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey by testing engineer Elec. Eng. Ergün Cengiz

Tests were carried out by means of the measuring equipment with the valid calibration.

III. Results of tests and examination

The results of tests and examination are given in the Particular protocols which is the part of this Test report:

- Particular protocol No. 15-0248/01/T1
- Particular protocol No. 15-0248/01/T2
- Particular protocol No. 15-0248/01/T3
- Particular protocol No. 15-0248/01/T4



İnönü Mah. Kayışdağı Cad. No:150/3 Ataşehir, İstanbul, Turkey

Particular protocol No:

15-0248/01/T3

Page2/2

Inspection according to:

EN 60309-1:1999/A1:2007/AC:2014 art 22

Product / Type / Serial Number:

WPI-0302M15

Examination Engineer:

Ergün Cengiz

Date of Inspection

2015-09-04

Measuring instruments:

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comm	
CE Multitester MI 2094	NFS1428001	14C01184	08.2016		
Testo Thermometer 905-T2	NFS1428003	E 6102085	08.2016		

Test Results:

Used On	Before Operation Temperature (C)	After Operation Temperature (C)	Measured Temperature Rise (K)	Maximum Temperature Rise (K)
Thermoplastic Body	24.0	35.0	11.0	50

Status: The measured values was not exceed maximum temperature rise values.

Uncertianty of measure: It was not required

Examination Engineer:

Name : Elec. Eng. Ergin Cengiz

Signature:

and Ceruing and Ceruing

Controk Murat Koçaş