



## Ente Certificazione Macchine

Via Cà Bella, 243 40053 Valsamoggia Località Castello di Serravalle  
(Bo) Italy  
Turkish Branch: Testroof Engineering and Certification Co., Ltd.



Test Report No.: 17-0269/03

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### III. Tested sample

- number of samples: 1
- date of submission: 2016-09-27
- Model No.: WPF-0400M25

Inspection, tests and evaluations were performed in **Testroof Mühendislik ve Belgelendirme Tic. Ltd. Şti.** İnönü Mah, Kayışdağı Cad. No:150-3, 34755 Ataşehir / İstanbul / TURKEY, by testing engineer Elec. Eng. Ergün Cengiz

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

### IV. 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. 17-0269/03/T1
- Particular protocol No. 17-0269/03/T2
- Particular protocol No. 17-0269/03/T3
- Particular protocol No. 17-0269/03/T4
- Particular protocol No. 17-0269/03/T5
- Particular protocol No. 17-0269/03/T6
- Particular protocol No. 17-0269/03/T7

### V. The list of used basis

- Order ev. Number LVD117466 at TESTROOF on 2017-07-09
- Contract Number LVD117466 dated 2017-07-09
- Particular protocol No. 17-0269/03/T1
- Particular protocol No. 17-0269/03/T2
- Particular protocol No. 17-0269/03/T3
- Particular protocol No. 17-0269/03/T4
- Particular protocol No. 17-0269/03/T5
- Particular protocol No. 17-0269/03/T6
- Particular protocol No. 17-0269/03/T7
- EN 61984:2009 Connectors. Safety requirements and tests

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

Elec. Eng. Ergün CENGİZ  
Test Engineer

Murat KOÇAS  
Manager of Testing Department





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Particular protocol No:	17-0269/03/T1	Page1/2
Inspection according to :	EN 61984:2009 Visual Examination Tests	
Product / Type :	WPF-0400M25	
Examination Engineer:	Ergün CENGİZ	
Date of Inspection	2017-09-26	
Measuring instruments:		

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
-	-	-	-	

**Requirement (\*):** EN 61984:2009 Visual Examination Tests

Connectors shall be identified and characterised by the following markings

<b>6.2.2</b>	Marking indelible and easily legible		
	Minimum marking on the connector a) trademark	TTAF	Pass
	Markings a) trademark and b) type identification on smallest unit of packaging		Pass
	All other markings (c – k) given in the technical documentation or catalogue of the manufacturer		Pass
	c) Rated current .....	25 A max	Pass
	d) Rated voltage .....	250 VAC max	Pass
	e) Over voltage category .....	II / III	Pass
	f) Pollution degree .....	IV	Pass
	g) Protection degree .....	IP68	Pass
	h) Range of temperature .....	-40°C #+85°C	Pass
	i) Type of terminals .....	Screw	Pass
	j) Connectable conductors .....		Pass
k) Reference to this standard or to the DS		Pass	
<b>6.2.3</b>	Position for the contacts and protective earthing contacts clearly indicated. Marking of protective earthing contacts applies symbol or "PE". This requirement is not necessary for non rewirable connectors.		Pass
<b>6.9.2</b>	Fixing means not used to fix live parts.		Pass
<b>6.9.3</b>	Termination without damage possible.		Pass
<b>6.10</b>	CBC has adequate breaking capacity		N/A

Examination Engineer  
Name : Eng. Ergün Cengiz  
Signature :

Approved by  
Name : Eng. M. Kocas  
Signature:



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Particular protocol No:	17-0269/03/T1	Page2/2
Inspection according to :	EN 61984:2009 Visual Examination Tests	
Product / Type :	WPF-0400M25	
Examination Engineer:	Ergün CENGİZ	
Date of Inspection	2017-09-26	
Measuring instruments:		

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
-	-	-	-	

<b>6.11</b>	Free connector: Wires protected against shear and tensile stress at the termination and secured to prevent twisting.			Pass
	The above requirement does not apply to:			
	a) free connectors for termination to cables in fixed mountings (plug connection in the sense of a detachable connection)			N/A
	b) free connectors in which the terminations are protected against pull and twisting by mounting provisions in the end-use product			Pass
	<b>DIMENSIONAL EXAMINATION: IEC 60512</b>			
<b>6.19</b>	Clearances and creepage distances according to IEC 60664.			Pass
	Connector dimensions comply with the DS or manufacturer's specification.			Pass
<b>A2</b>	<b>DURABILITY OF MARKING</b>			
<b>7.3.2</b>	Test liquid: water Test piston size 1; force 5 N; 10 cycles IEC 60068-2-70 Test Xb „Abrasion of marking“	IEC 60068-2-70 Test Xb „Abrasion of marking“ in the moulding		Pass
	<b>VISUAL EXAMINATION: IEC 60512 Test 1a</b>			
	Visible with the naked eye			Pass

Examination Engineer  
Name : Eng. Ergün Cengiz  
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Particular protocol No:	17-0269/03/T2	Page1/1		
Inspection according to :	EN 61984:2009 Art. 6.4.1			
Product / Type :	WPF-0400M25			
Examination Engineer:	Ergün CENGİZ			
Date of Inspection	2017-09-26			
Measuring instruments:				
Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
-	-	-	-	

**Requirement (\*):** EN 61984:2009 Art. 6.4.1

A connector shall be so designed that after mounting, its live parts are not accessible by the IEC test finger in accordance with Clause 5 of IEC 60529 using a test force of 20 N. All parts which are necessary to ensure protection against electric shock shall only be removable by the aid of a toll

All parts necessary to ensure protection against electric shock only removable with a tool.

**Test Results :**

Test at mated and unmated specimen. Jointed IEC test finger pressed with 20 N against the surface except the mating face of the male part of the connector. Creepages and clearances ensured between live parts and test finger.	<b>Pass</b>
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Examination Engineer  
Name : Eng. Ergün Cengiz  
Signature :

Approved by  
Name : Eng. M. Kocas  
Signature:



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Particular protocol No:	17-0269/03/T3	Page1/1
Inspection according to :	EN 61984:2009 Art. 6.4.2.2	
Product / Type :	WPF-0400M25	
Examination Engineer:	Ergün CENGİZ	
Date of Inspection	2017-09-26	
Measuring instruments:		

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
-	-	-	-	

**Requirement (\*)**: EN 61984:2009 Art. 6.4.2.2

For a COC with protection against electric shock according to characteristic c2) of 5.4, protective provisions shall be tested by using the access probe -50 mm sphere- according to clause 5 of IEC 60529 with a test force of 20 N, without consideration of clearances and creepage distances.

### Test Results :

5.4 c2) COC Hand back safety (IP1X or IPXXA) 50 mm sphere pressed with 20 N against mated specimen.	<b>Pass</b>
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**Status** : No live parts accessible

Examination Engineer  
Name : Eng. Ergün Cengiz  
Signature :

Approved by  
Name : Eng. M. Kocas  
Signature:



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Particular protocol No:	17-0269/03/T4	Page1/1		
Inspection according to :	EN 61984:2009 Art. 6.4.2.3			
Product / Type :	WPF-0400M25			
Examination Engineer:	Ergün CENGİZ			
Date of Inspection	2017-09-26			
Measuring instruments:				
Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
-	-	-	-	

**Requirement (\*)**: EN 61984:2009 Art. 6.4.2.3

For a COC and CBC with protection against electric shock respectively according to characteristic c3) and d) of 5.4, protective provisions shall be tested according to clause 5 of IEC 60529 by using the test finger with a test force of 20 N, without consideration of clearances and creepage distances.

**Test Results :**

5.4 c3) COC Finger safety (IP2X or IPXXB) Jointed test finger pressed with 20 N against mated specimen.	<b>Pass</b>
---	-------------

**Status** : No live parts accessible

Examination Engineer  
Name : Eng. Ergün Cengiz  
Signature :

Approved by  
Name : Eng. M. Kocas  
Signature:



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Particular protocol No: 17-0269/03/T5 Page1/1  
Inspection according to : EN 61984:2009 Art. 6.5.3  
Product / Type : WPF-0400M25  
Examination Engineer: Ergün CENGİZ  
Date of Inspection 2017-09-26  
Measuring instruments:

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
CE Multitester MI 2094	NFS1428001	A-17001184	08/2018	

**Requirement (\*)**: EN 61984:2009 Art. 6.5.3

Accessible metal part of a connector with an earthing contact which may become live in the event of insulation fault shall be reliably connect to the earthing contact

In no case shall the resistance of this connection exceed 0,1 ohm

**Test Results :**

Contact Resistance (m ohm)		
1	2	3
1,84	2,38	2,05
1,84	2,37	2,05
1,84	2,37	2,05

**Status** : No live parts accessible Resistance between accessible metal parts and the earthing contact  $\leq 100$  m ohm

Examination Engineer  
Name : Eng. Ergun Cengiz  
Signature :

Approved by  
Name : Eng. M. Kocas  
Signature:



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Test Report No.: 17-0269/03

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Particular protocol No:	17-0269/03/T6	Page1/1
Inspection according to :	EN 61984:2009 Art. 6.5.4.1	
Product / Type :	WPF-0400M25	
Examination Engineer:	Ergün CENGİZ	
Date of Inspection	2017-09-26	
Measuring instruments:		

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
-	-	-	-	

**Requirement (\*)**: EN 61984:2009 Art. 6.5.4.1 The protective conductor terminal shall be able to accept a conductor with a min. Cross sectional area as specified in Table

1	2	3
Nominal Cross sectional area of the current carrying conductor	Min. Cross sectional area for the protective conductor and accesible metal parts or covers used as protective conductors	Min. Cross sectional area for the connections between the protective conductor and accesible metal parts or covers not used as protective conductors
mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>
Up to 1,5	Corresponding to the nominal cross sectional area of the current	
2,5	2,5	1,5
4	4	2,5
6	6	4
10	10	10
16, 25, 35	16	16
50	25	25
70	35	35
95	50	50
120, 150	70	50
185	95	50
240	120	50
300	150	50
400	185	50

**Status:**

The protective conductor terminal accepts a conductor with a minimum cross-section as specified in Table 1, Column 3:	<b>Pass</b>
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Examination Engineer  
Name : Eng. Ergün Cengiz  
Signature :

Approved by  
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Signature:





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Particular protocol No:	17-0269/03/T7	Page1/1
Inspection according to :	EN 61984:2009 Art. 6.13	
Product / Type :	WPF-0400M25	
Examination Engineer:	Ergün CENGİZ	
Date of Inspection	2017-09-26	
Measuring instruments:		

Designation	Evidentiary Number	Number of calibration protocol	Period of validity	Comment
CE Multitester MI 2094	NFS1428001	A-17001184	08/2018	

**Requirement (\*):** EN 61984:2009 Art. 6.13

A connector shall withstand the specified test voltage preferably the impulse withstand voltage or the r.m.s withstand voltage alternatively The connector shall withstand the test voltage specified in Table 8 , in accordance with 7.3.12

**Voltage proof test**

The voltage proof test shall be performed by applying a r.m.s. withstand voltage with values as specified in table 8. Test duration shall be 1 minute.

**Test Method:**

Voltage Applied	r.m.s withstand voltage applied
Contact- Contact	1,5 kv
Contact - Earth	1,5 Kv

Test has been done according to manufacturer declaration.

**Status:** No breakdown or flashover occurred.

Examination Engineer  
Name : Eng. Ergün Cengiz  
Signature :

Approved by  
Name : Eng. M. Kocas  
Signature:



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# TEST REPORT

## No. 17-0269/03

**Product:** Connector

**Model(s):** WPT-0603M25 6 Pin 'T' Field Assembly Connector (25 A – 250 V)

**Verification to:** 2014/35/EU

EN 61984:2009

**Manufacturer:** TTAF ELEKTRONİK SAN. VE TİC. LTD. ŞTİ.  
*Kavaklı Mah. İstanbul Cad. No:21 Beylikdüzü/İstanbul/TURKEY*

**Person responsible:** Elec Eng Ergün CENGİZ

**Date of issue:** 2017-09-28

**Distribution list:**  
1xTESTROOF  
1x Producer  
1x ECM





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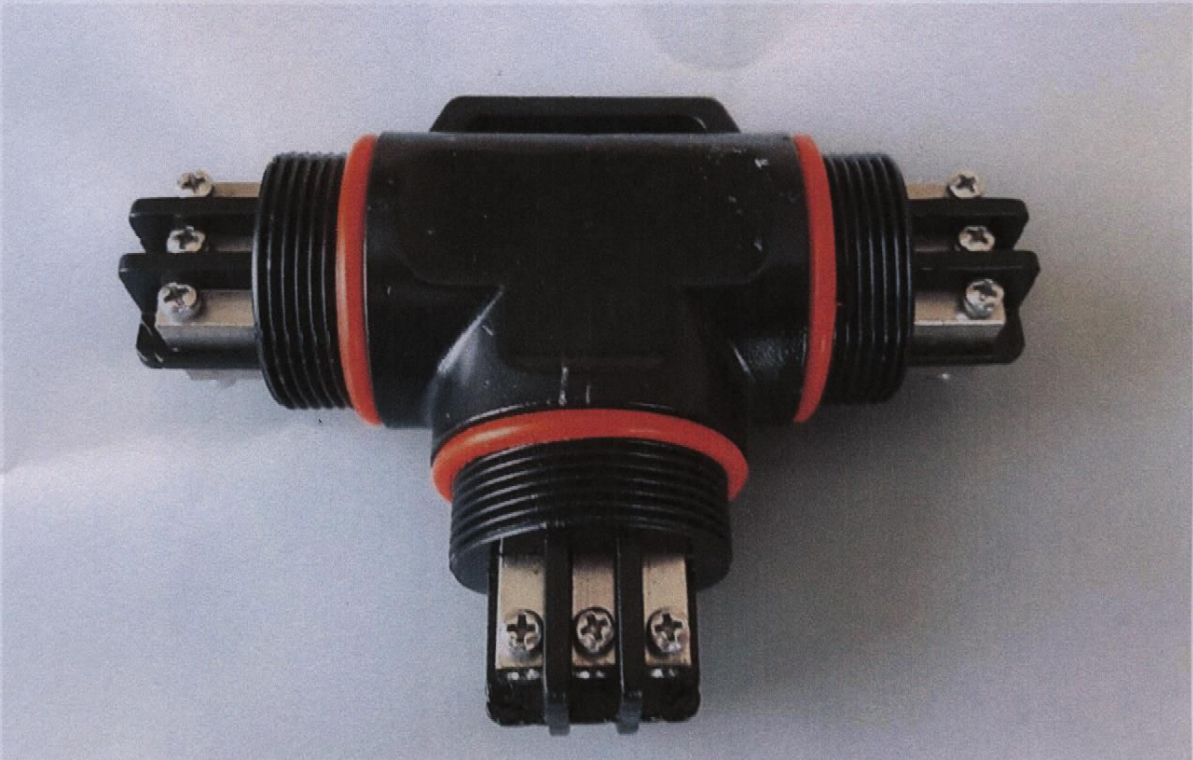
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The tests have been carried out by virtue of the following documents:

- Order ev. Number LVD117466 at TESTROOF on 2017-07-09
- Contract Number LVD117466 dated 2017-07-09

### I. Description of product

**WPT-0603M25 6 Pin 'T' Field Assembly Connector (25 A – 250 V)**



### II. Technical Characteristics

**WPF-0400M25**

<b>Material:</b>	PA6
<b>Contact No:</b>	6
<b>Current Rating:</b>	25 A max
<b>Temperature Range:</b>	- 40°C #+85°C

