

SPECIFICATION & APPROVALS

CUSTOMER:

PowerConnections P/N: CP1

DESCRIPTION: EUROPLUG

DATE: 25 September 2022

Submission Sample Quantity: 10 Pieces

PowerConnections

SUPPLIER SPECIFICATION SUBMISSION

Date of Application 31 August 2010 Specification 700-0003
 Application No.
 Supplier's Name **PowerConnections** Supplier Code
 Part Name Europlug Part No. CP1

Tick the relevant box “ √ “

Reason for Submission

- 1. New application
- 2. New part(s) is added to accepted specification

√ 3. Revision of accepted specification

(Revision requested by customer Or supplier)

- 1. The specification attached to this sheet does not deviate from the customer specification

Revision / Change

- 2. Revision(s) within the limits of customer specification is proposed. Revision proposal(s) listed below.

√ 3. Revision(s) beyond the limits of customer specification is proposed. Revision proposal(s) listed below. However, all other items contained within the specification are identical to the customer specification.

Revision(s) shall be marked with a triangle “Δ” in the specification attached.

Revision No.	Date	Revision Description	Reason for Revision
A	15-02-04	First issue	
B	01-06-04	Replacement pages	Use new BSi certificates
			C 01-11-04 Replace pages
			Remove old reports
D	20-01-06	Update	New report, RoHS data
E	25-07-06	SEM Fuse data added	Alternative fuse available
F	10-05-10	Revised to BS1363-5	Change of applicable Standard
G	31-08-10	Bussmann Fuse revision	Change to fuse marking

H

25-09-22 Jade Fuse data added

Alternative fuse available

Checked By

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Approved By

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SPECIFICATION

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PART NO. CP1		SPECIFICATION NO. 700-0003		
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SPECIFICATION

1.0 Application

This Specification defines the performance for the Converter Plug, which is designed for the Euro Plug (CEE7).

2.0 Name / Part Number

Name: Europlug

Part Number: CP1

3.0 Shape and Dimensions

See Attached

4.0 Rating

Voltage: AC 240V / 50Hz
Current: 8A
Ambient Working Temperature: -5 +70°C
Storage Temperature: -40 +80°C 90%RH

5.0 Safety Specification -Approvals

BS 1363-5

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6.0 Electrical Strength Test

No.	Test	Clause in Standard	Result	Description of test 6 pieces are subjected to this series of test
6.1	Provision for cables and Cords	19.1 BS1363-5	Pass	A CEE7 Euro Plug is fitted into an CP1 and the CEE7cord is subjected to 25 pulls lasting is with a force of 30N, no more than 2mm of displacement is allowed. The cord is then subjected to the pulling force and at 3750v to ensure no breakdown in connection.
6.2	Resistance to ageing	14.2 BS1363-5	Pass	Samples to be kept in a cabinet for 7 days (168 hours) at 70°C±2°C, then tested for stickiness or greasiness by with dry rough cloth wrapped around a fore-finger, force 5N.
6.3	Insulation resistance	15.1 BS1363-5	Pass	500V DC is applied and after 60s the insulation resistance is checked and must be not less than: a) 5MΩ between parts of opposite polarity, b) 5MΩ between parts of opposite polarity connected together and other insulated parts including the earth.
6.4	Electric Strength	15.1 BS1363-5	Pass	2000V AC 50Hz is applied and after 60s the Voltage drop is checked and must be within 3% RMS of the applied Voltage: a) between live parts of opposite polarity b) between live parts of opposite polarity connected together and other insulated parts including the earth.

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7.0 Mechanical Strength Tests

No.	Test	Clause in Standard	Result	Description of test 4 pieces are subjected to this series of test
7.1	Tumble Barrel test	20.2 BS1363-5	Pass	The product is subjected singly to 1000-drop test in the apparatus as shown in the (BS1363-5) standard Figure 17.
7.2	Fuse insertion test	20.3.1 BS1363-5	Pass	A solid stainless steel fuse link is inserted 20 times, to test the strength of the clips.
7.3	Temperature rise test	16 BS1363-5	Pass	Current of 11 amps is passed for not less than 4 hours and not greater than 8 hours at 250 volts or until stable, the temperature rise is then measured
7.3.1	Box Ambient	For each sample		22.6°C, 22.9°C, 23.0°C
7.3.2	Line Pin Spacer temp rise	For each sample		24.8K, 25.4K, 24.2K max. temp rise permissible 37K
7.3.3	Neutral Pin Spacer temp rise	For each sample		17.2K, 17.7K, 17.6K max. temp rise permissible 37K
7.3.4	Accessible external surface temp rise	For each sample		13.4K, 12.4K, 12.1K max. temp rise permissible 52K

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8.0 Construction Tests

No.	Test	Clause in Standard	Result	Description of test 3 pieces are subjected to this series of test
8.1	Accessibility to live parts	9.1 BS1363-5	Pass	With the unit assembled as in normal use a probe 12 to BS EN 61032:1998 is supplied with a force of 5N whilst a voltage of 45V is supplied to the live parts via an electrical indicator. No access permissible.
8.2	Lid to Base security	12.5 BS1363-5	Pass	With the parts at 70°C±5° C a force of 60N is applied to the cover fixing screw, no damage or impairment of function to have occurred.
8.3	Resistance to Heat	22.2 BS1363-5	Pass	With the parts at 70°C±5° C a force of 20N is applied to the plug in the jaws of the apparatus shown in Figure 23, no damage or impairment of function to have occurred, shown by retesting insulation resistance and electric strength, and must fit the Figure 5 gauge
8.4	Resistance to Heat	22.3 BS1363-5	Pass	Ball pressure test using the apparatus shown in Figure 24, test temperature at 75°C±5° C, the force of 20N is applied for 60 mins after an initial period of 10 mins. The sample is then cooled by immersion in water at room temp and the indentation caused by the ball measured, this must be less than 2mm in diameter.

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9.0 Glow Wire Tests

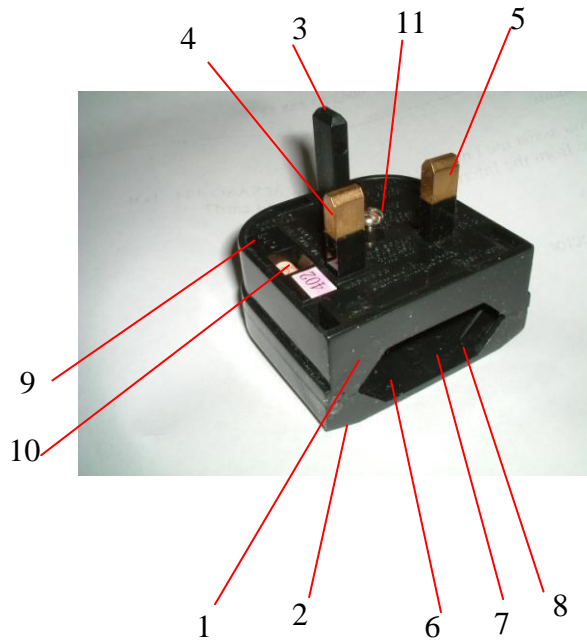
No.	Test	Clause in Standard	Result	Description of test 3 pieces are subjected to this series of test
9.1	Resistance to Abnormal Heat	23.2 BS1363-5	Pass	A glow wire of 750°C is applied to all the insulating surfaces there must be no visible flames or glowing or these must extinguish within 30s of removal of the glow wire.

10.0 Material Strength Tests

No.	Test	Clause in Standard	Result	Description of test 3 pieces are subjected to this series of test
10.1	Construction of plug	12.2 BS1363-5	Pass	Critical dimensions of the plug must not exceed the dimensions given in Figure 4a. Compliance checked using the gauge as shown in Figure 5.
10.2	Flexibility of pins	12.8.11 BS1363-5	Pass	Using the apparatus as shown in Figure 8 pins are tested with force of 4.2 to 4.4N applied 25mm from the engagement face, the pins must not deflect by more than 3°30'. The results on the pins were <1°. After this test the parts are again checked again checked using the Figure 5 gauge.

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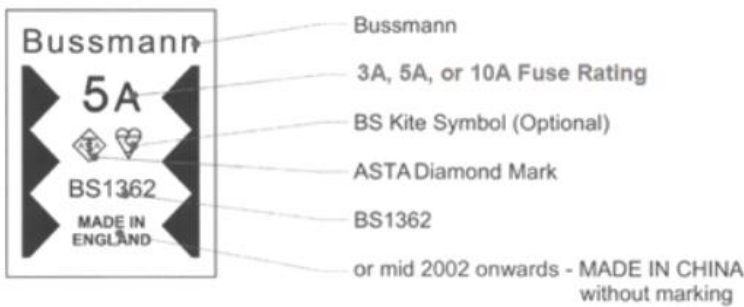
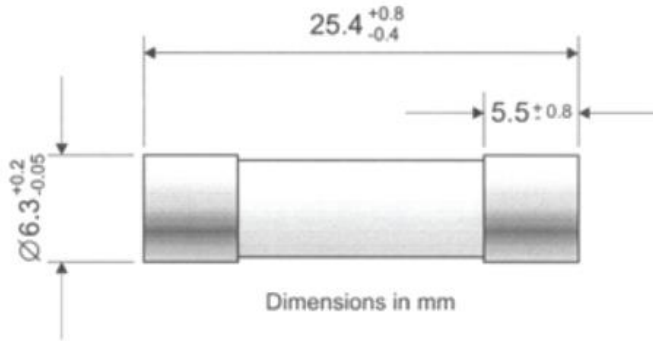
11.0 Component Name



No.	Test	Material		
1	Base	Polypropylene LG Lupol GP1007 FC		
2	Cover	Polypropylene LG Lupol GP1007 FC		
3	Earth Pin	Nylon 66 30% Glass Filled – Rhodia A30H2V25		
4	Live Pin	Brass (Universal) with Nylon 66 Sleeve Dow 21SPC		
5	Neutral Pin	Brass (Universal) with Nylon 66 Sleeve Dow 21SPC		
6	Live Clip	Phosphor Bronze Taiwan VPN170-190		
7	Neutral Clip	Phosphor Bronze Taiwan VPN170-190		
8	Insert	Polypropylene LG Lupol GP1007 FC		
9	Fuse Holder	Nylon 66, Dow 21SPC		
10	Fuse	Bussmann 3A, 5A or 10A (BS1362, ASTA) Group Talent (SEM) 3A, 5A, 10A (BS1362, ASTA, BSi)		
11	Screw	Plain or Tamperproof Steel Screw with Zinc and Clear Pacification Luen Tai		
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12.0 Fuse Specification



Print Block		Print Colour
Computer number	Rating	
F1820227	2A	Black
F1820228	3A	Red
F1820229	5A	Black
F1820230	10A	Black
F1820231	13A	Brown



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13.0 Installation Procedure

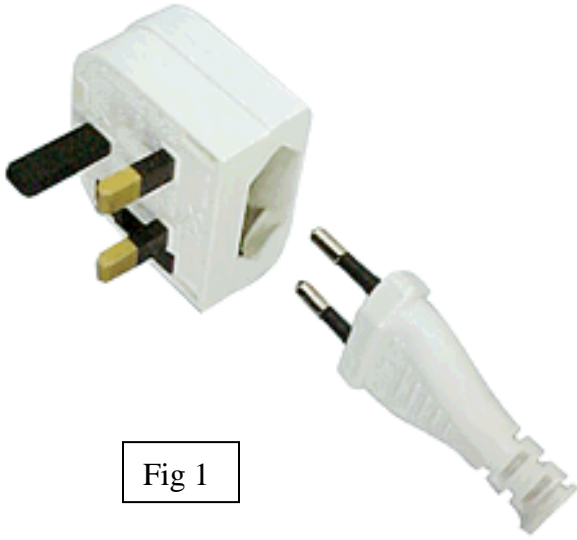


Fig 1

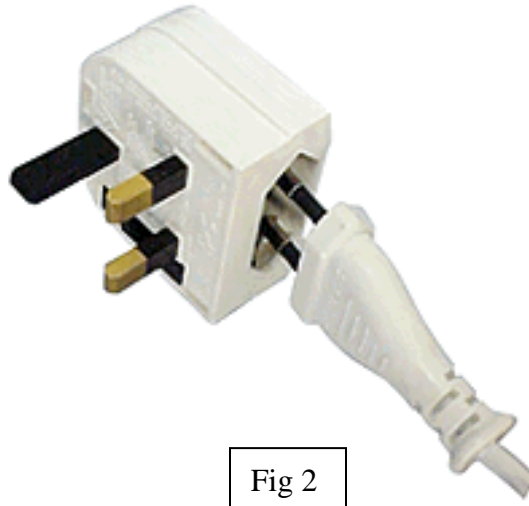


Fig 2

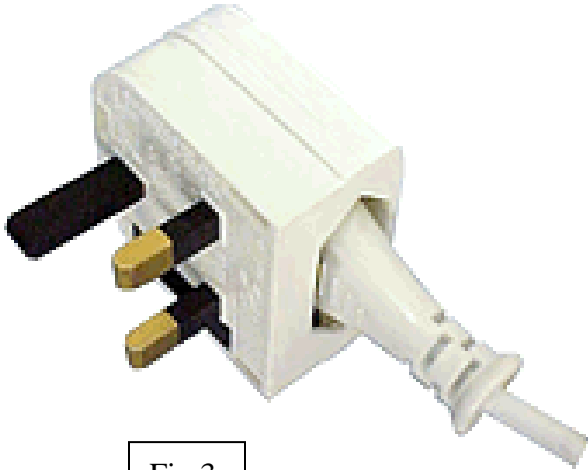


Fig 3

Insert the VDE Plug as shown and tighten the screw on the base to 0.6Nm. (6.12 Kgf.cm)
 Check that VDE plug is correctly fitted by trying to remove it.
 Now ready for use.

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