



Property	Value
Colour	Yellow
Size of plug casing	51 x 49 x 31mm
Weight	36g
Connector to earth pin resistance	0.95 - 1.05 megohms
Connector to connector resistance	approx 2 megohms

Item	Description
60281	UK Plug with 3 x 10mm Studs
60282	UK Plug with 1 x 2BA Binding Post
60283	UK Plug with 2 x 4mm Plug Sockets, 1 x 10mm Stud

Description

- To fit UK 13A socket.
- The Charleswater Earth Bonding Point (EBP) plug is designed to provide a common ground point for grounding using protective earth in an ESD protected area (EPA). The plug fits into the mains supply socket, making a connection with the earth conductor only. In place of the live and neutral pins are moulded insulating plastic pins to allow positive location in the socket. Connectors on the front of the plug are available for connection via ground cords to the various elements of the EPA. Thus each element is held at a common potential.
- The normal earth contact is linked via individual 1 megohm resistor rated at 1/2W. In the event of a workstation element becoming live the resistor will limit the fault current to less than 0.3mA at 240V, and is capable of withstanding 500VDC for 6 minutes.
- If overstressed the resistor will open the circuit.
- It is virtually impossible to misuse the plug, which is permanently sealed. The resistance between the terminations and the pin of each plug is tested after manufacture.
- Check that the connectors on the plug face correspond with the terminations on the wrist strap and ground cords: several variations of the plug are available. Insert the EBP plug into a mains supply socket and push it fully home. The plug functions safely whether the socket is switched off or on. Connect the elements of the EPA such as bench and floor mats to the EBP plug face using ground cords.
- The plug is ONLY to be used for ESD control purposes.
- ONLY use ground cords with compatible connections to those on plug. Charleswater supply EBP plugs with terminations for all standard ground cords.
- NOT to be used for earthing electrical appliances.
- DO NOT open or try to repair. Test the plug by measuring the resistance from each termination to the Earth pin. Resistance should be between 0.9 and 1.1 megohm.
- Each termination is connected to its own 1 megohm resistor. The resistance between two terminations should be approximately 2 megohms.
- To avoid the need for unduly long ground cords and to simplify the daily visual check, that all connections are sound and in place, an EBP plug should not be shared by more than two work stations.
- The EBP plug may also be used in conjunction with a Charleswater EBP box or bar installed at the front of a bench for easier connecting of wrist straps for example.
- EBP plugs are packed and labelled individually in an antistatic polyethylene bag.



Made in Britain

Specifications and procedures subject to change without notice.



UK Earth Bonding Plugs

CHARLESWATER LTD.
 UNIT 17. MILLBROOK BUSINESS PARK, SYBRON WAY
 CROWBOROUGH, EAST SUSSEX TN6 3JZ UNITED KINGDOM
 PHONE: 00 44 (0) 1892-665313, FAX: 00 44 (0) 1892-668838
 INTERNET: Charleswater.co.uk

Drawing Number
 60281.E

DATE:
 January
 2011