



[231200](#)

Property	Value
Colour	Yellow
Size of plug casing	51mm x 49mm x 31mm
Weight	36g
Connector to earth pin resistance	0.8 - 1.2 megohms
Connector to connector resistance	approx 2 megohms

Item	Description
231200	UK Plug with 3 x 10mm Studs
231230	UK Plug with 2 x 4mm Plug Sockets, 1 x 10mm Stud
231225	UK Plug with 1 x 2BA Binding Post

Unless otherwise noted, tolerance $\pm 10\%$

Specifications and procedures subject to change without notice.

Description

- To fit UK 13A socket.
- The Vermason 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.
- A resistance of sufficient resistance to limit current to less than 0.0005 amperes (0.5 milliamperes), at the highest voltage that may be encountered, should be incorporated. Nominally, 800 kilohms are sufficient for voltages of up to 240 volts alternating current (AC). The value of one megohm is specified because it is a standard value discrete resistor. Follow appropriate regulatory or company safe grounding instructions. (Ref: ANSI/ESD S1.1).
- 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. Vermason 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 0.8 and 1.2 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 Vermason 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 the United Kingdom

Vermason

UK Earth Bonding Plugs

VERMASON
 UNIT C, 4TH DIMENSION, FOURTH AVENUE, LETCHWORTH,
 HERTS, SG6 2TD UK
 PHONE: +44 (0) 1462-672005
 E-MAIL: Service@Vermason.co.uk, INTERNET: Vermason.co.uk

Drawing Number
 231180

DATE:
 February
 2014