



- A. To fit UK European CEE (7) VII Schuko sockets as used in Belgium, France, Germany, Holland, Spain.
- B. The Vermason Earth Bonding Point (EBP) plug is designed to provide a safe effective and easy to use earthing point 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.
- C. The normal earth contact is linked via individual 1 MΩ 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.
- D. If overstressed the resistor will open the circuit.
- E. 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.
- F. 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.
- G. The plug is ONLY to be used for ESD control purposes.
- H. ONLY use ground cords with compatible connections to those on plug. Vermason supply EBP plugs with terminations for all standard ground cords.
- I. NOT to be used for earthing electrical appliances
- J. 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 1.1MΩ.
- K. Each termination is connected to its own 1MΩ resistor. The resistance between two terminations should be approximately 2MΩ
- L. 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.
- M. 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.
- N. EBP plugs are packed and labelled individually in an antistatic polyethylene bag.

| Property                          | Value          |
|-----------------------------------|----------------|
| Colour                            | Yellow         |
| Size of plug casing               | 63 x 49 x 49mm |
| Weight                            | 36g            |
| Connector to earth pin resistance | 0.95 - 1.05MΩ  |
| Connector to connector resistance | approx 2MΩ     |

| Item   | Description  |
|--------|--|
| 231135 | European Plug with 3 x 10mm Studs                      |
| 231125 | European Plug with 1 x 4mm Studs, 2 x 10mm Studs       |
| 231170 | European Plug with 2 x 4mm Plug Sockets, 1 x 10mm Stud |



Made in Britain

# Vermason

## European Earth Bonding Plugs

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 231135

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