

## Supplementary Equipotential Earth Bonding (SEEB) Plug and Socket

As part of a safe medical electrical installation, the Starkstrom Supplementary Equipotential Earth Bonding (SEEB) Plugs and Sockets are fundamental in creating an equipotential earth bonded zone and helping to prevent significant touch voltages within the medical location. They are suitable for all Group 1 or 2 / Category 4 or 5 Clinical Areas, particularly ITU's, Operating Rooms, and other high care areas.

It is a requirement of the latest edition of BS7671 that supplementary equipotential bonding connection points for the connection of medical electrical (ME) equipment shall be provided in each Group 1 or 2 medical location, as follows.

- Group 1: a minimum of one per patient location.
- Group 2: a minimum of four but not less than 25% of the number of medical IT socket-outlets provided per patient location.

All ME equipment or exposed conductive surfaces within the medical location, that are not equipotentially bonded as part of the permanent medical electrical installation, should be connected to a SEEB Socket, using a SEEB Plug, permanently fitted with a highly flexible conductor, flying earth lead.

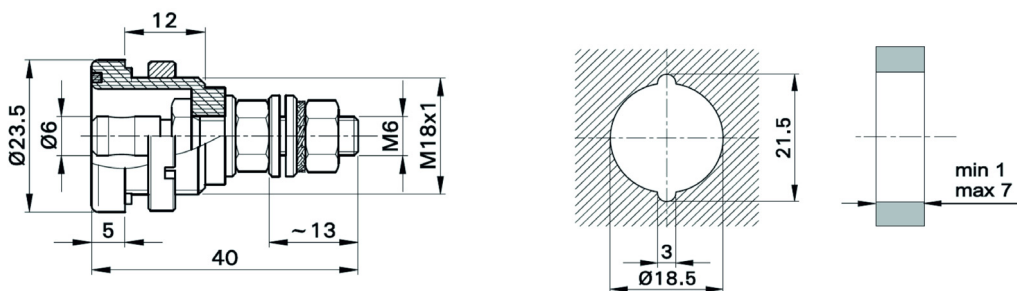
Alternative 'twist and lock' SEEB Plugs and Sockets are also available, which may be required for installations in Ireland and USA (not shown).

Typical earthing drawings for a variety of medical locations, to both IET and MEIGaN (withdrawn) standards, are available on request.

**Equipotential Socket – POAG-ID6.** A black coloured panel receptacle with a green/yellow coloured ring. The socket is normally fitted to the Operating Theatre Pendant, Theatre Control Panel or Bedhead Trunking. They can also be supplied fitted to a single gang, or double gang wall plate, for flush wall mounting within the medical location.

**Equipotential Angle Plug – POAG-KBT6DIN.** Plug made of brass, nickel plated. Crimp connection made of copper, can be used with a 4mm<sup>2</sup> or 6mm<sup>2</sup> highly flexible conductor. The plug is designed to be permanently fitted to any ME equipment or exposed conductive surface etc. via a flying earth lead fitted by the end-user.

**Crimping Tool – POAG-PZ-N.** Crimping tool (not shown) with mandrel for 4mm<sup>2</sup> and 6mm<sup>2</sup> highly flexible conductor and ratchet stop for a faultless crimp connection. It is essential this tool be used to crimp the Equipotential Angle Plug – POAG-KBT6DIN.



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