STARKSTROM Ltd

European Equipotential Plugs & Sockets

As per the *Special Locations Guidance Note 7, page 68 (BSS7671:1992 Requirements for Electrical Installations), MEIGaN, HTM 2007 and BS EN 60601-1-1:2001,* it is essential that the leakage current through the patient must not exceed 50 micro-amps.

It may be assumed that the patient's body resistance is 1k Ohm, and therefore the maximum permissible voltage between the exposed conductive parts of medical electrical equipment and the equipotential bar is limited to 50mV.

Following from the above paragraph, an assumption is made that a potential difference of 30mV is applicable to the equipment and its cord. If only 50mV is allowed between the exposed conductive parts of medical electrical equipment and the equipotential bar then in Group Two medical locations the voltage between extraneous conductive parts within a 1.5m radius of a patient and the earth terminal of the nearest power socket shall not exceed 20mV.

In order to ensure that the voltage between extraneous conductive parts and the nearest power socket does not exceed 20mV, Starkstrom can provide equipotential plugs and sockets.

Equipotential Socket – POAGID6
A black coloured panel receptacle with a green/yellow coloured ring. The Socket is normally fitted to the Operating Theatre Pendant, Surgeon's Panel or Bedhead Trunking. They can also be supplied in a Flush Wall Box, shown below

Equipotential Angle Plug – POAG-KBT6DIN
According to DIN42801, with special safety catch (TUV Tested). Plug made of brass, nickel plated. Crimp connection made of copper, can be used for highly flexible conductor 4mm^2 or 6mm^2. The plug is designed to be permanently fitted to any metal conducting part of equipment trolleys etc. via a fly-lead fitted by the end-user.

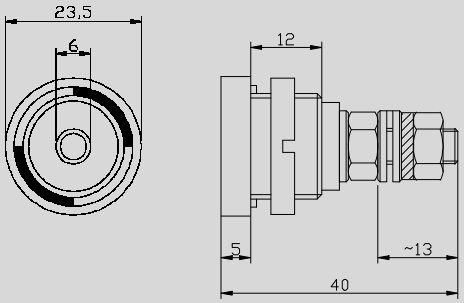
Socket Spanner - SS6
The socket spanner (not shown) is suitable for the M18 ring nut used to fix the Equipotential Socket - POAG-ID6. It is recommended this tool be used to tighten the ring nut.

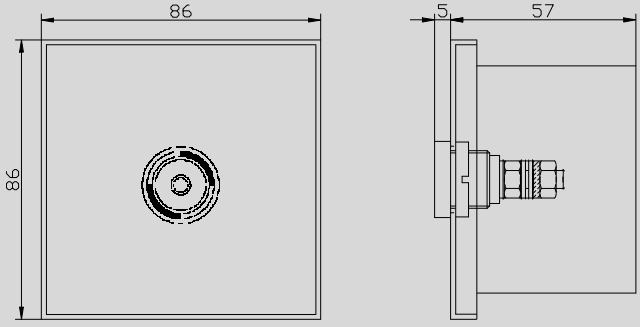
Crimping Tool – POAG-PZ-N
Crimping tool (not shown) with mandrel for 4mm2 and 6mm2 highly flexible conductor and ratchet stop for a faultless crimp. It is recommended this tool be used to crimp the Equipotential Angle Plug - POAG-KBT6DIN.

POAG-ID6 Equipotential

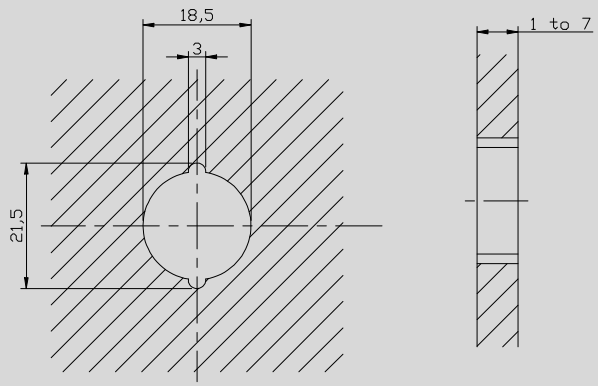
POAG-KBT6DIN Angle Plug & POAG-S6/15 Equipotential Stud

POAG-ID6 Equipotential Socket & Drilling





Flush Wall Box with POAG-ID6 Equipotential Socket



www.starkstrom.com
256 Field End Road, Eastcote, Ruislip, Middlesex, HA4 9UW, UK
Tel +44 (0) 20 8868 3732 Fax +44 (0) 20 8868 3736