



**MADE IN BRITAIN**  
DISTRIBUTED WORLDWIDE

# Potential Equalisation Socket - OEM

[Equipotential Earth Bonding Connection Point]



**CABL  FLOW™**  
H E A L T H C A R E





**MADE IN BRITAIN**  
DISTRIBUTED WORLDWIDE



Innovation is at the heart of an evolutionary healthcare infrastructure. Challenging boundaries whilst being respectful of clinical skills are two valued philosophies which ensure knowledge led developments in bedroom architecture.

At **CABLEFLOW** we recognise the need to be different, to ensure product development offers practical and sustainable progression whilst always ensuring full compliance with Patient Safety Standards and improving the clinical environment for clinicians and patients alike.

We are proud of our British healthcare heritage which offers universal application around the world. Having been conferred both a prestigious **Queens Award for Enterprise: Innovation** and a **Kings Award for Enterprise: Innovation** users of our products and systems take confidence in this unique recognition of Cableflow as a market leader.



Recognised as Britain's foremost medical supply unit manufacturer our range of products whether standard or bespoke offer solutions to satisfy many in-patient design concepts across all clinical environments whether primary or tertiary care areas, and every speciality in-between.

In 2005 our **integra** product became the first and only linear bedhead trunking system to achieve Royal recognition with a **Queens Award for Enterprise: Innovation** from Her Majesty Queen Elizabeth II. This achievement was further endorsed in 2023 with a **Kings Award for Enterprise: Innovation** for our (POAG) equipotential earth bonding socket.

Improving the clinical architecture, patient and clinician experience whilst ensuring flexibility and adaptation in later use are hallmarks of our innovative bedhead solutions. Whether in an acute hospital setting or more domestic environments such as Hospice's and the like our systems can be tailored to your requirements.





MADE IN BRITAIN  
DISTRIBUTED WORLDWIDE

## POAG-PES

### Potential Equalisation Socket – OEM

The Cableflow **POAG-PES** range offers alternative and sustainable OEM options for the provision of potential equalisation (equipotential bonding) sockets within medical supply units and other proprietary Medical Electrical (ME) equipment applications.

#### APPEARANCE CHOICES

The POAG-PES is available in two appearance options.

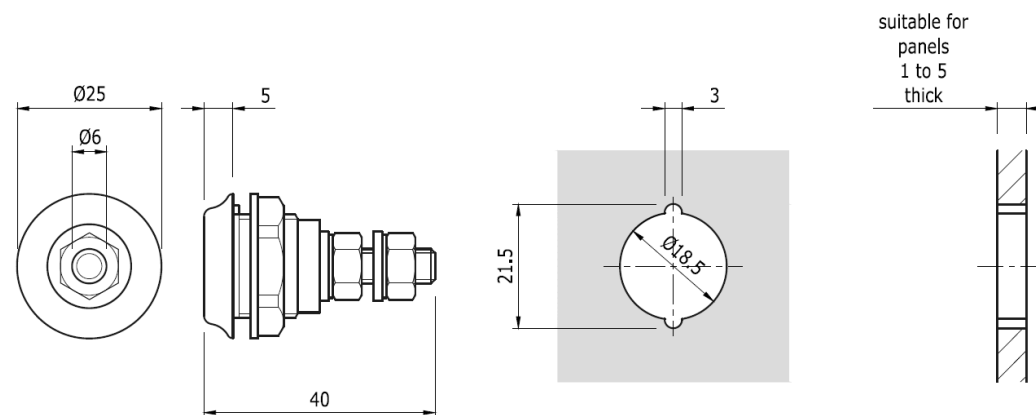
Primarily manufactured as a solid green injection moulding (**POAG-PES-G**) with an internal yellow inlay to identify the PES in accordance with IEC 60 364 colour coding, the appearance readily identifies the PES as an earth connection.

Alternatively, available as a clear polycarbonate insulation housing (**POAG-PES-C**) which encapsulates a green/yellow micro-film label. The design of our moulding has been carefully considered to create optics which work simultaneously with the label to magnify the image and colour-coding from all viewable angles whilst identifying it a potential equalisation (supplementary equipotential bonding) socket in accordance with IEC 60601-1.

In both design options the insulation housing holds a POAG 6/40 connecting pin manufactured to DIN 42801 for proprietary lead connection. The POAG pin is fully insulated from any mounting point by the moulding and incorporates an anti-rotation pip for ease of fixing. The exposed tip of POAG pin displays the IEC 60417-5021 symbol for potential equalisation etched into the surface for durability.

#### INDUSTRY NORM FIXING APERTURE

The POAG-PES fits into a universally adopted mounting aperture which facilitates a simple supplier transition within the OEM supply-chain and does not require any re-engineering of existing OEM designs.



CABLEFLOW™

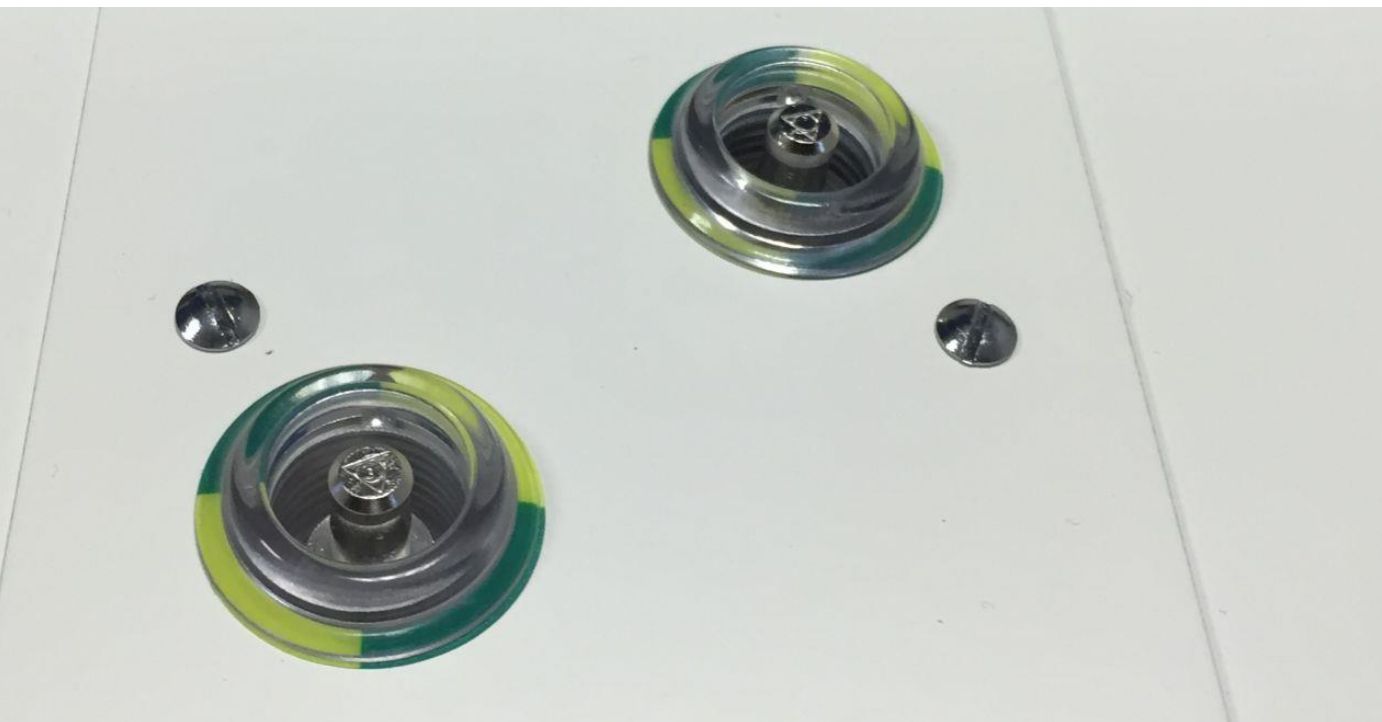
[www.cableflow.com](http://www.cableflow.com)

tel: +00 44 (0) 1494 528811





MADE IN BRITAIN  
DISTRIBUTED WORLDWIDE



### HIGH-GRADE MATERIALS

The combination of high quality British manufacturing and the use of finest grade materials in each component ensures reliable potential equalisation in medical locations, and supported by the Cableflow reputation as a globally renowned manufacturer of medical workplace components.

### APPLICABLE STANDARDS

- IEC 60601-1:** Medical electrical equipment – General requirements for safety
- ISO 11197:** Medical supply units – essential safety requirements
- IEC 60364-1:** Low-voltage electrical installations – Part 1: Fundamental principles, assessment of general characteristics, definitions.
- IEC 60364-7-710:** Electrical Installations of buildings – requirements for special installations or locations – Medical locations
- BS 7671:** 18<sup>th</sup> Edition Wiring Regulations + Amd 2
- DIN 42801:** Potential equalisation leads – Connecting pins
- DIN 42801-2:** Potential equalisation leads – Connecting sockets

### Ordering Information - complete assembly part numbers:

- Green – POAG-PES-G
- Clear – POAG-PES-C

Each assembly is supplied individually bagged complete with label, nuts, 'penny' washers and shakeproof washers in accordance with DIN 42801 for direct connection into the proprietary mounting point.

*Registered Design & Patents Pending 2014*

### THE KINGS AWARDS FOR ENTERPRISE: INNOVATION

The POAG-PES was recognised by His Majesty King Charles III as an exceptional innovation which has proven its commercial success since launch and this success was recognised by the appointment of a Kings Award for Enterprise in the Innovation category in 2023. Just 47 innovation awards were made in 2023 across a total of 149 Awards to British industry.

The Kings Awards for Enterprise are recognised as the highest accolade of achievement for a British business and reflect well-established, innovative businesses that have proven their value to the UK economy and are financially stable. In 2005 Cableflow were similarly recognised with a Queens Award for Enterprise, also for Innovation from Her Majesty Queen Elizabeth II.



**CABLEFLOW™**

[www.cableflow.com](http://www.cableflow.com)

tel: +00 44 (0) 1494 528811



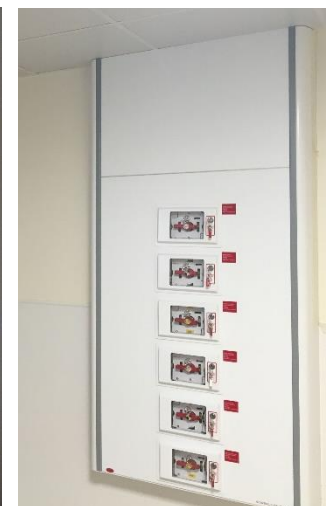
CE UK CA UK NI

Document Reference	Document Description	Document Reference	Document Description
BS 476-10: 2009	Fire tests on building materials and structures. Guide to the principles, selection, role and application of fire testing and their outputs	BS EN ISO 9170-2:2008	Terminal units for medical gas pipeline systems. Terminal units for anaesthetic gas scavenging systems
BS 1363-1:2016 + A1:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewireable and non-rewireable 13 A fused plugs	BS EN ISO 7599:2010	Anodizing of aluminium and its alloys. General specifications for anodic oxidation coatings on aluminium
BS 1363-2:2016 + A1: 2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets	BS EN ISO 11197:2019	Medical supply units
BS 1363-4:2016 + A1 2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A fused connection units switched and unswitched	ISO 19054:2006 + A1:2016	Rail Systems for supporting medical equipment
BS 5266-1:2011	Emergency lighting. Code of practice for the emergency escape lighting of premises	HBN 00-03	Designing generic clinical and clinical support spaces
BS 5733:2010+A1:2014	General requirements for electrical accessories. Specification	HBN 00-04	Circulation and communication Spaces
BS 6701: 2016	Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance	HBN 00-09	Infection control in the built environment
BS 6972: 1988	Specification for general requirements for luminaire supporting couplers for domestic, light industrial and commercial use	HBN 04-01	Adult in-patient facilities: planning and design
BS 7671:2018 + A2 2022	Requirements for Electrical Installations 18th Edition IET Wiring Regulations (incorporating Section 710 (Special Locations Medical Locations)	HBN 04-02	Critical care units
BS 8300-1:2018	Design of buildings and their approaches to meet the needs of disabled people. Code of practice	HBN 4, Supplement 1	Isolation facilities for infectious patients in acute settings
BS EN 12206-1:2021	Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes. Coatings prepared from coating powder	HBN 6	Facilities for Diagnostic imaging and interventional radiology:
BS EN 12464-1: 2021	Light and lighting. Lighting of work places. Indoor work places	HBN 07-01	Satellite Dialysis Unit
BS EN 13032-2: 2017	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Presentation of data for indoor and outdoor work places	HBN 07-02	Main Renal Unit
BS EN 50083-2:2012	Cable networks for television signals, sound signals and interactive services. Electromagnetic compatibility for equipment	HBN 09-02	Maternity Care Facilities
BS EN 50085-1:2005+A1:2013	Cable trunking systems and cable ducting systems for electrical installations. General requirements	HBN 09-03	Neonatal Units
BS EN 50085-2-1:2006	Cable trunking systems and cable ducting systems for electrical installations. Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings	HBN 57: 2003	Facilities for critical care
BS EN 60439-5: 2006	Low-voltage switchgear and control gear assemblies. Particular requirements for assemblies for power distribution in public networks	HTM 00	Building Engineering in the Health Sector
BS EN 60529:1992+A2:2013	Degrees of protection provided by enclosures (IP code)	HTM 02-01	Medical gas pipeline systems
BS EN 60598-1:2021	Luminaires. General requirements and tests	HTM 06-01	Electrical services: supply and distribution
BS EN 60598-2-22:2014 +A1: 2020	Luminaires. Particular requirements. Luminaires for emergency lighting	HTM 06-02	Electrical safety guidance for low voltage systems
BS EN 60601-1-6:2010+A1:2013 +A2:2020	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Usability	HTM 08-03	Management of bedhead services in the health sector
BS EN 60601-1-2: 2015 + A1:2021	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Electromagnetic compatibility. Requirements and tests	HTM 17	Health Building Engineering Installations
BS EN 60669-1:2018	Switches for household and similar fixed-electrical installations. General requirements	HTM 2014	Abatement of electrical interference
BS EN 61000-6-3:2021	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments (formally BS EN 50081-1)	HTM 2020	Electrical safety code for low voltage systems
BS EN 61000-6-4:2019	Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments	CIBSE LG 02: 2019	Lighting guide - Hospitals and health care buildings
BS EN 61000-6-1:2019	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments ( formally BS EN 50082-1)	CIBSE LG 3: 2001	Lighting guide - The visual environment for Display Screen Use
BS EN ISO 7396-1:2016 +A1:2019	Medical gas pipeline systems. Pipeline systems for compressed medical gases and vacuum	CIE	European Lighting Guide
BS EN ISO 7396-2: 2007	Medical gas pipeline systems. Anaesthetic gas scavenging disposal systems	NHS SPEC C49: 1997	Nurse Call Systems. Revision 3
BS EN ISO 9170-1:2017	Terminal units for medical gas pipeline systems. Terminal units for use with compressed medical gases and vacuum	EU MDR 2107/745	EU Medical Device Regulation
		UK MDR 2002	UK Medical Device Regulations (SI 2002 (no. 618, as amended)











**MADE IN BRITAIN**  
DISTRIBUTED WORLDWIDE

# CABLE FLOW™

Cableflow  
International  
Limited



For full product data sheets go to our website or contact us directly

# www.cableflow.com



Cableflow International Limited | Windsor House | Abbey Barn Road | High Wycombe | Buckinghamshire | HP11 1NN | United Kingdom

(tel) 00 44 (0)1494 52 88 11 | (email) [sales@cableflow.com](mailto:sales@cableflow.com)

Registered in England 2356618