

TECHNICAL DATA UNDERFLOOR POWER TRACK MODULES

Conditional Short Circuit Rating

TRACK

Short circuit protection provided by fuselinks BS-88 and BS 1361 100 amp maximum.

Prospective current 16.5kA
Mechanical withstand 10kA peak
Thermal withstand 1200A for 0.1 seconds

TAP-OFF UNITS

Mechanical withstand 10kA peak
Thermal withstand 1200A for 0.1 seconds

Earth Fault Loop Impedance (measured at 1.0A)

The IEE Wiring Regulations require accurate determination of the total earth loop impedance, which must be low enough to ensure that the protective device will operate within the specified time, which for circuits incorporating socket outlets is 0.4 seconds. The values for the Britmac System for calculating the earth fault loop impedance are as follows:

Phase busbar	1.97mV/m
Earth busbar to housing	1.38mV/m
Earth busbar (Clean Earth)	1.97mV/m
Track connector	0.37mV
Supply connector	0.24mV
32A tap-off (4mm² x 3m), line	9.92mV

Volt Drop, Combined Phase & Neutral (measured at 1.0A)

Busbar (line & neutral)	3.94mV/A/m
Track connector	0.74mV/A
Supply connector	0.48mV/A
32A tap-off (4mm² x 3m), line & earth	19.84mV/A/m

Cable Capacity of Terminals

Supply connector 16mm² csa stranded conductor

Construction

TRACK

Body extrusion	Galvanised Steel
Track base	Galvanised steel
Busbar	High conductivity copper
Degree of protection	Track IP4X; In-feed housing IP3X C

TAP-OFF UNITS

Standard, Clean Earth and Dual Track tap-offs are non-interchangeable. All types available in fused and unfused versions.

32A tap-off unit

The 32A tap-off is unfused with 3 metres of 16mm diameter flexible conduit and 4mm² cables to BS 6004:2000 which are terminated in the tap-off via welded connections.

Fused tap-off unit

Required where conduit lengths greater than 3 metres are used. The tap-off unit is used as standard at 13 amps and is fitted to the specified length of 16mm diameter conduit and 2.5mm² cables to BS 6004:1995 which are terminated in the tap-off via welded connections. The flexible conduit is manufactured to BSEN 50086-1

STANDARDS

BSEN 60439: Part 1 & Part 2.

The track system enables compliance with the latest IEE Wiring Regulations, BS 7671:2008.

TRACK CURRENT RATING

63 amps, 240V ac; 50Hz single phase ambient temperature 25C.

