

# Technical Specifications

## Technical information

BSI Kitemark Licence approved to BS5733 and BS1363 part 2

Manufacturing approved to ISO9001:2000  
Quality Assurance Certificate No. 10679

### Electrical test data

Rated Current	32A
Rated Voltage	230V~
Frequency	50/60Hz

### Conductor resistance

2 Socket module	0.6mΩ
3 Socket module	0.9mΩ
4 Socket module	1.2mΩ

### Volt drop

#### Live & neutral

2 Socket module	1.2mV/A
3 Socket module	1.8mV/A
4 Socket module	2.4mV/A
Protection module	4.0mV/A
In-feed	16A 6.0mV/A
	+1.5mm <sup>2</sup> 29mV/A/m
	32A 2.5mV/A
	+4mm <sup>2</sup> 11mV/A/m
Interconnection	16A/32A 2.0mV/A
	+1.5mm <sup>2</sup> 29mV/A/m
	+4mm <sup>2</sup> 11mV/A/m

### Earth Fault loop impedance

2 Socket module	1.2mΩ
3 Socket module	1.8mΩ
4 Socket module	2.4mΩ
Protection module	4.0mΩ
In-feed	16A 6.0mΩ
	+1.5mm <sup>2</sup> 29mΩ/m
	32A 2.5mΩ
	+4mm <sup>2</sup> 11mΩ/m
Interconnection	16A/32A 2.0mΩ
	+1.5mm <sup>2</sup> 29mΩ/m
	+4mm <sup>2</sup> 11mΩ/m

### Mechanical Data

Number of conductors	3-6
Busbar conductor cross sectional area	5mm <sup>2</sup>
16A Rewirable In-feed terminal capacity	1.5mm <sup>2</sup>
32A Rewirable In-feed terminal capacity	6mm <sup>2</sup>

### Material Specification

Module Housing	VØ Flame retardant ABS
Socket Outlets	Polycarbonate
Busbars & socket rings	High conductivity copper C101
Other metalwork	Phosphor bronze PB102

## British standards

Reference must be made to all relevant and associated standards.

**BS6396:** 2002 Electrical systems in office furniture and office screens.

**BS7671:** 2008 Requirements for Electrical Installation  
(IEE Wiring Regulations 17th Edition)

**Electricity at Work Regulations 1989**  
**Health and Safety Legislation.**

Below is a brief outline of the main criteria within the standards:

**BS6396:** 2002 was published with regard to the use of electrical equipment within general office furniture and screens. This standard sets out in its scope the use and testing of electrical socket outlets and associated wiring when used together with a 13A BS1363 fused plug and makes provision for the routing of cables through furniture.

For compliance with this standard socket outlet configurations 2, 3 or 4 outlets should be individually fused @ 5A and 5 or 6 outlets individually fused @ 3.15A.

**BS7671:** 2008 17th edition. The Health and Safety Executive states that installations which conform to the standards laid down in BS7671: 2008 are regarded by the HSE as likely to achieve conformity with the relevant parts of The Electricity at Work Regulations 1989.

Special note should be taken of Regulation 543.7 within BS7671: 2008 Earthing requirements for the installation of equipment having high protective conductor currents.

Regulation 543.7 has particular importance when there is a requirement for a quantity of information technology equipment being supplied from a final circuit in a location where the protective current exceeds 3.5mA in normal use. Due to current in the protective conductor arising from the use of IT equipment, there is a requirement to provide a mechanically protected 4mm<sup>2</sup> conductor (543.7.1.3(ii)). Rotasoc achieves this when wired in accordance with the installation sheets by providing mechanically protected 5mm<sup>2</sup> earth conductors within the product.