

Fire Resistant Cables

Two core, Overall Screen, LSZH/HFFR Sheath

BS6387 CWZ, PH30



C5848, C5849

Applications

Screened two core Fire Resistant cable for Building and Industrial Management Systems

Cross Section Drawing



Design

Unit	Properties
Conductor	2 x Solid Bare Copper wire, Cl1
Insulation	Silicon Rubber E12 Core 1: Blue Core 2: Brown
Wrapping tape	PET tape
Drain Wire	Solid Tinned Copper wire
Screen	Aluminium/Polyester tape
Sheath Material	Halogen Free Flame-Retardant (LSZH/HFFR) Standard Colour: Red
Standard Put Up Length	305 and 500 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C5848	C5849
No of cores x cross section in sqmm (mm ²)	2 x 1.5	2 x 2.5
Nom. Diameter Conductor (mm)	1 x 1.38	1 x 1.78
Nom. Radial Thickness Insulation (mm)	0.6	0.6
Nom. Cross Section Drain Wire (mm ²)	0.50	0.50
Drain Wire Stranding	1x0.8	1x0.8
Screen Coverage (%)	115	
Nom. Overall Diameter (mm)	7.0	8.10
Cable weight (kg/km)	85	115
Operating Temperature (°C)	-40 to +90 (3hrs 950°C)	
Installation Temperature (°C)	-15 to +90	
Minimum bending radius (mm)	80	99
Max. recommended pulling tension (N)	405	670
Fire Resistance to BS6387, Cat. C	Exposed to fire at 950°C for 3 hours	
Fire Resistance to BS6387, Cat. W	Exposed to fire at 650°C for 15 minutes, then exposed to fire at 650°C with water for 15 minutes	
Fire Resistance to BS6387, Cat. Z	Exposed to fire at 950°C for 15 minutes, then exposed to fire at 650°C with mechanical shock for 15 minutes	
Circuit Integrity IEC 60331-21	Exposed to Fire at 750°C for 90 minutes	
Flame Retardancy	IEC 60332-3-24	

Electrical Characteristics at 20°C

Part Number	C5848	C5849
Max. DC Resistance Conductor (Ω/km)	12.1	7.41
Nom. Capacitance conductor to conductor (pF/m)	105	125
Nom. Capacitance conductor to rest (pF/m)	185	200
Min. Insulation Resistance (MΩ*km)	200	
Max. recommended current at 25°C (Amps)	21	30
Max. Operating Voltage (Vrms)	300/500	

Reference Standards

BS 6387 CWZ	EN 50200 PH30
IEC 60228	IEC 60754-1&-2
IEC 60332-3-24	IEC 61034-1&-2
IEC 60331-21	RoHS Directives