

Fire Resistant Cables

Four core, Overall Screen, LSZH/HFFR Sheath

BS6387 CWZ

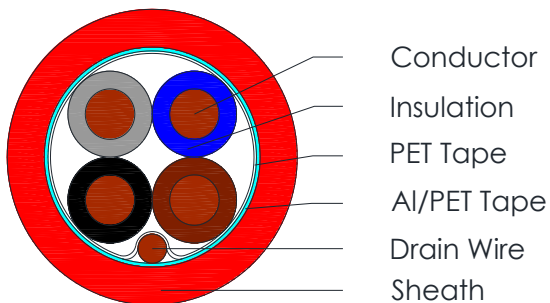


C5025, C5026, C5027, C5028

Applications

Screened four cores Fire Resistant cable for Building and Industrial Management Systems

Cross Section Drawing



Appendix to Cert/LPCB ref. No. 1168a-(cl-1)/01

Design

Unit	Properties
Conductor	Solid Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Gray Core 2: Blue Core 3: Brown Core 4: Black
Wrapping tape	PET tape
Drain Wire	Solid Tinned Copper wire
Screen	Aluminium/Polyester tape
Sheath Material	Low Smoke Zero Halogen / 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	C5025	C5026	C5027*	C5028
No of cores x cross section in sqmm (mm ²)	4 x 0.75	4 x 1.0	4 x 1.5	4 x 2.5
Nom. Diameter Conductor (mm)	1 x 1.0	1 x 1.13	1 x 1.38	1 x 1.8
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8
Nom. Cross Section Drain Wire (mm ²)	0.50	0.50	0.70	0.50
Screen Coverage (%)	115			
Nom. Overall Diameter (mm)	7.2	7.7	9.5	10.3
Cable weight (kg/km)	79	91	130	179
Operating Temperature (°C)	-40 to +90			
Installation Temperature (°C)	-15 to +90			
Minimum bending radius (mm)	72	77	95	103
Max. recommended pulling tension (N)	380	500	790	1260
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 950°C with mechanical shock for 15 minutes			
Fire Resistance to 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	C5025	C5026	C5027*	C5028
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41
Min. Insulation Resistance (MΩ*km)	200			
Max. recommended current at 25°C (Amps)	12	18	21	30
Max. Operating Voltage (Vrms)	300/500			

Reference Standards

EN 50267-2-1,	BS EN 50363-1
BS 7655.1.1, BS 7655.6.1	EN 50200 PH120
EN 50290-2-27	VDE 472-814
IEC 60228	IEC 60754-1&-2
IEC 60332-3-24	IEC 61034-1&-2
IEC 60331-21 FE180	BS 6360
BS 6387 CWZ	RoHS Directives

*Subject to LPCB certification