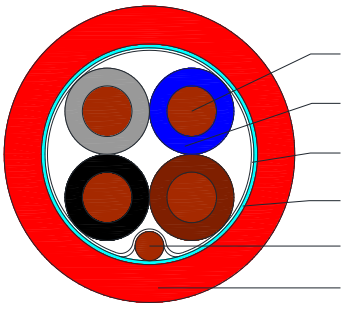
Fire Resistant Cables - FirePremium
B3 Cables Italy
Four core, Overall Screen, LSZH/HFFR Sheath
BS 6387 CWZ, EN 50200 PH120 + Annex E

C5025, C5026, C5027, C5028, C5383

Applications

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

Cross Section Drawing



Conductor
Insulation
PET Tape
Al/PET Tape
Drain Wire
Sheath

Appendix to Cert/LPCB ref. No. 1809a/01

Design

Unit	Properties
Conductor	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	Halogen Free Flame-Retardant (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	C5383
No of cores x cross section in sqmm (mm2)	4 x 0.75	4 x 1.0	4 x 1.5	4 x 2.5	4 x 4.0
Nom. Diameter Conductor (mm)	1 x 1.0	1 x 1.13	1 x 1.39	1 x 1.8	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8	0.9
Nom. Cross Section Drain Wire (mm2)	0.50	0.50	0.50	0.50	0.50
Screen Coverage (%)	115				
Nom. Overall Diameter (mm)	8.0	8.3	9.0	10.8	12.0
Cable weight (kg/km)	79	91	133	179	286
Operating Temperature (°C)	-20 to +90				
Installation Temperature (°C)	-15 to +90				
Minimum bending radius (mm)	80	83	90	108	120
Max. recommended pulling tension (N)	380	500	790	1260	2106
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	C5383
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Min. Insulation Resistance (MΩ*km)	200				
Max. recommended current at 25°c (Amps)	12	18	21	30	40
Max. Operating Voltage (Vrms)	300/500				

Reference Standards

BS EN 50363-1	*EN 50200 PH120, *EN 50200 Annex E
EN 50290-2-27	*IEC 60754-1
IEC 60228/BS6360	IEC 60754-2
IEC 60332-3-24	*IEC 61034-2
IEC 61034-1	BS 7671
IEC 60331-21 FE180	BS 7655.6-1
*BS 6387 CWZ	RoHS Directives

*Standards and constructions under LPCB certification