

Fire Resistant Cables - FirePremium

B3 Cables Italy

Three core, Overall Screen, LSZH/HFFR Sheath BS 6387

CWZ, EN 50200 PH120 + Annex E

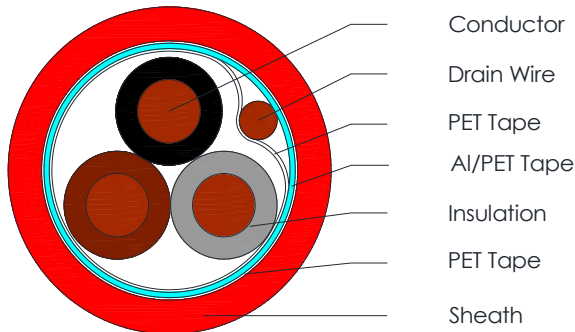


C1159, C1160, C1161 C1162, C1163

Applications

Three core Fire Resistant cable for Building and Industrial Management Systems

Cross Section Drawing



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

Design

Unit	Properties
Conductor	Bare Copper wires
Insulation	Ceramifiable Silicon Rubber Core 1: Black, Core 2: Brown Core 3: Grey
Cable Core lay-up	Three wires twisted together
Wrapping	Polyester Tape
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester tape
Wrapping	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	C1159	C1160	C1161*	C1162	C1163
No of cores x cross section in sqmm (mm ²)	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5	3 x 4.0
Nom. Diameter Conductor (mm)	1 x 1.0	1 x 1.13	1 x 1.38	1 x 1.8	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8	0.9
Diameter over insulation (mm)	2.4	2.5	2.8	3.4	4.35
Screen Coverage (%)	115				
Nom. Cross Section Drain Wire (mm ²)	0.50	0.50	0.50	0.50	0.50
Nom. Overall Diameter (mm)	7.3	7.5	8.7	9.9	12.0
Operating Temperature (°C)	-40 to +90				
Installation Temperature (°C)	-15 to +90				
Minimum bending radius (mm)	80	80	90	100	120
Max. recommended pulling tension (N)	190	240	350	570	770
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				
Fire Retardancy	IEC 60332-3C				

Electrical Characteristics at 20°C

Part Number	C1159	C1160	C1161*	C1162	C1163
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Min. Insulation Resistance (MΩ*k m)	200				
Test Voltage (Vrms)	3000				
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