

Fire Resistant Cables

Two core Stranded, Overall Screen with HFFR Sheath BS6387 CWZ

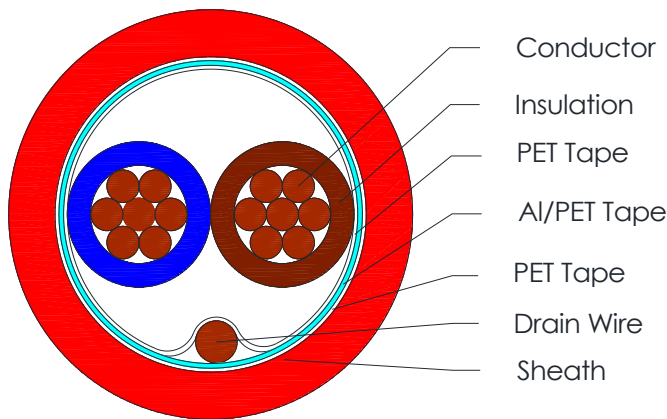


CI145, CI146, CI289, CI148

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	2 x Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Blue, Core 2: Brown
Cable Core lay-up	Two twisted wires 10 twists per meter
Wrapping	Polyester Tape
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester Tape
Wrapping	Polyester Tape
Sheath Material	Red Halogen Free Flame-Retardant (HFFR)
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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C1145, C1146, C1289, C1148

Physical Characteristics

Part Number	C1145	C1146	C1289	C1148
No of cores x cross section in sqmm (mm ²)	2 x 2.5	2 x 2.5	2 x 4	2 x 4
Nom. Diameter Conductor (mm)	7 x 0.67	7 x 0.67	7 x 0.85	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.9	0.9
Diameter over insulation (mm)	3.0	3.0	4.4	4.4
Nom. Cross Section Drain Wire (mm ²)	2.5	1.0	4.0	1.0
Screen Coverage (%)	115			
Nom. Overall Diameter (mm)	7.8	7.8	12.0	12.0
Operating Temperature (°C)	-20 to +90			
Installation Temperature (°C)	-15 to +90			
Minimum bending radius (mm)	117	117	180	180
Max. recommended pulling tension (N)	670	540	1080	910
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			

Electrical Characteristics at 20°C

Part Number	C1145	C1146	C1289	C1148
Max. DC Resistance Conductor (Ω/km)	7.41	7.41	4.61	4.61
Min. Insulation Resistance (MΩ*k m)	200			
Test Voltage (Vrms)	3000			
Max. recommended current at 25°C (Amps)	26	26	40	40
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