

Fire Resistant Cables

Three Core, Overall Screen & Steel Wire Armour

PVC Sheath, BS6387 CWZ

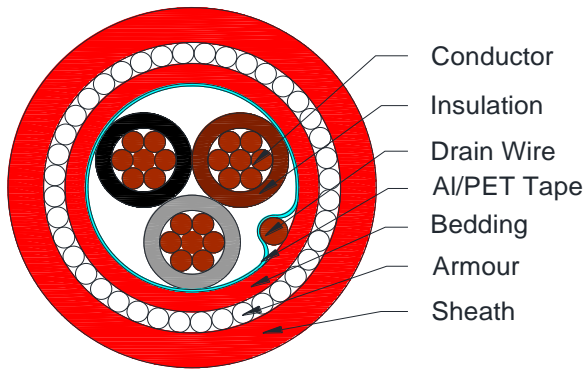


CI 596, CI 597, CI 598, CI 599

Applications

Two core armoured Fire Resistant cable for Building and Industrial Management Systems.

Cross Section Drawing



Design

Unit	Properties
Conductor	3 x Class 2 Bare Copper wires
Insulation	Silicon Rubber blend Core 1: Black, Core 2: Brown Core 3: Grey
Cable Core lay-up	Three wires twisted together
Drain Wire	Bare Copper wire
Screen	Aluminium/Polyester tape
Bedding Material	Halogen Free Flame-Retardant (HFFR)
Armour	Galvanized steel wire
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.

Fire Resistant Cables
Three Core, Overall Screen & Steel Wire Armour
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C1596, C1597, C1598, C1599

Physical Characteristics

Part Number	C1596	C1597	C1598	C1599
No of cores x cross section in sqmm (mm ²)	3 x 4	3 x 4	3 x 6	3 x 6
Nom. Diameter Conductor (mm)	7 x 0.85	7 x 0.85	7 x 1.04	7 x 1.04
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.7
Diameter over insulation (mm)	3.8	3.8	4.5	4.5
Screen Coverage (%)	115			
Nom. Cross Section Drain Wire (mm ²)	4.0	1.0	6.0	1.0
Nom. Diameter Bedding (mm)	10.0	10.0	11.5	11.5
Nom. Diameter Steel Wire Armouring (mm)	11.7	11.7	13.2	13.2
Nom. Overall Diameter (mm)	14.5	14.5	16.2	16.2
Operating Temperature (°C)	-20 to +90			
Installation Temperature (°C)	-15 to +90			
Minimum bending radius (mm)	225	225	250	250
Max. recommended pulling tension (N)	1440	1170	2160	1710
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 650°C for 15 minutes, then exposed to fire at 650°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	C1596	C1597	C1598	C1599
Max. DC Resistance Conductor (Ω/km)	4.61	4.61	3.8	3.8
Min. Insulation Resistance (MΩ*k m)	200			
Test Voltage (Vrms)	3000			
Max. recommended current at 25°C (Amps)	34	34	44	44
Max. Operating Voltage (Vrms)	300/500			

Reference Standards

EN 50267-2-1,	BS 6387 CWZ
BS 7655-Type E12, BS 7655.1.1, BS 7655.6.1	BS 6234
EN 50290-2	BS 6360
IEC 60332-3-24	IEC 60754-1&-2
IEC 60331-21	IEC 61034