

**Fire Resistant Cables - Fireplus Two core,
Unscreened, SWA, LSZH/HFFR Sheath BS 6387
CWZ, EN 50200 PH120**



C18910, C18911, C18912, C18913, C18914

Applications

Armoured unscreened two core Fire Resistant cable for Building and Industrial Management Systems

Cross Section Drawing



Design

Unit	Properties
Conductor	Stranded Bare Copper wire, Class 2
Insulation	Ceramifiable Silicon Rubber Core 1: Blue Core 2: Brown
Bedding	Halogen Free Flame-Retardant (LSZH/HFFR)
Armour	Galvanized Steel wire
Sheath Material	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	C18910	C18911	C18912	C18913	C18914
No of cores x cross section (mm ²)	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0
Nom. Diameter Conductor (mm)	7 x 0.37	7 x 0.43	7 x 0.52	7 x 0.67	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.7				
Nom. Insulation Diameter (mm)	2.50	2.50	2.50	2.50	2.50
Nom. Overall Diameter (mm)	6.8	7.2	8.2	9.1	10.8
Nom. SWA wire Diameter (mm)	0.90				
Nom. Overall Diameter (mm)	10.6	11.0	12.0	12.9	14.6
Cable weight (kg/km)	240	256	304	374	480
Operating Temperature (°C)	-40 to +90 (3hrs 950°C)				
Installation Temperature (°C)	-15 to +90				
Minimum bending radius (mm)	153	159	174	188	213
Max. recommended pulling tension (N)	200	270	460	730	1470
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 650°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	C18910	C18911	C18912	C18913	C18914
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Nom. Capacitance conductor to conductor (pF/m)	105	105	105	125	125
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 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