

# Fire Resistant Cables

## Two core, Overall Screen & Steel Wire Armour

### LSZH/HFFR Sheath, BS6387 CWZ

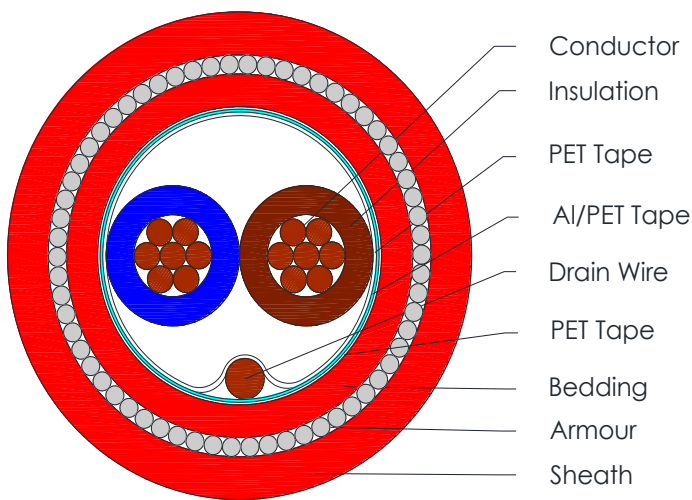


C5301, C5302, C5909

#### Applications

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

#### Cross Section Drawing



#### Design

Unit	Properties
Conductor	Stranded Bare Copper wires
Insulation	Ceramifiable Silicon Rubber Core 1: Blue Core 2: Brown
Cable Core lay-up	Two wires twisted together
Wrapping	Polyester Tape
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester tape
Wrapping	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

## Two core, Overall Screen & Steel Wire Armour

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C5301, C5302, C5909

#### Physical Characteristics

Part Number	C5909	C5301	C5302
No of cores x cross section (mm <sup>2</sup> )	2 x 1.0	2 x 1.5	2 x 2.5
Nom. Diameter Conductor (mm)	7 x 0.42	7 x 0.53	7 x 0.67
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.8
Diameter over insulation (mm)	2.66	3.0	3.60
Screen Coverage (%)	115		
Nom. Cross Section Drain Wire (mm <sup>2</sup> )	0.50	0.50	0.50
Nom. Diameter Bedding (mm)	7.1	8.7	9.9
Nom. Diameter Steel Wire Armouring (mm)	8.9	10.5	11.7
Nom. Overall Diameter (mm)	11.9	13.5	14.7
Operating Temperature (°C)	-20 to +90		
Installation Temperature (°C)	-15 to +90		
Minimum bending radius (mm)	160	180	258
Max. recommended pulling tension (N)	690	1040	1170
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	C5909	C5301	C5302
Max. DC Resistance Conductor (Ω/km)	18.1	12.1	7.41
Min. Insulation Resistance (MΩ*k m)	200		
Test Voltage (Vrms)	3000		
Max. recommended current at 25°C (Amps)	18	21	30
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