

Fire Resistant Cables

Two core, Overall Screen & SWB Armour

LSZH/HFFR Sheath, BS6387 CWZ

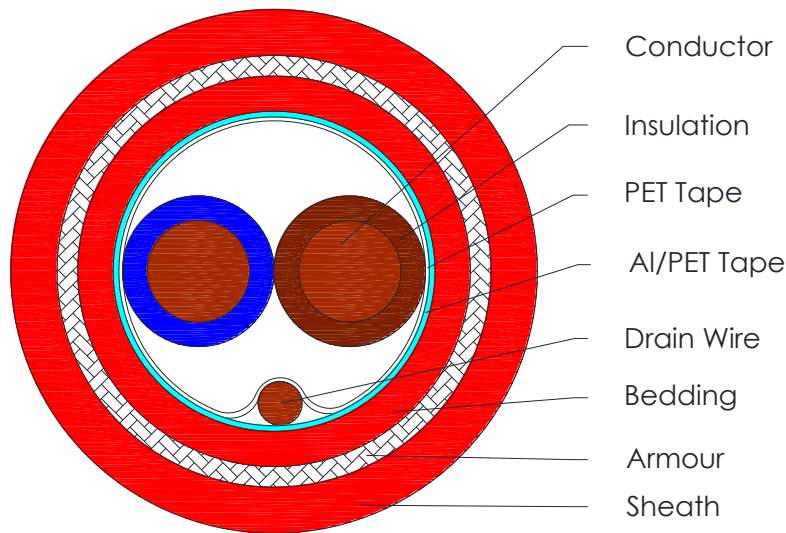


C1204, C1205, C5908

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid 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
Bedding Material	Halogen Free Flame-Retardant (HFFR) Colour: Red RAL3000
Armour	Galvanized steel wire Braid (SWB)
Sheath Material	Halogen Free Flame-Retardant (HFFR) Standard Colour: Red RAL3000
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 & SWB Armour

LSZH/HFFR Sheath, BS6387 CWZ



C1204, C1205, C5908

Physical Characteristics

Part Number	C5908	C1204	C1205
No of cores x cross section (mm ²)	2 x 1.0	2 x 1.5	2 x 2.5
Nom. Diameter Conductor (mm)	1.13	1.4	1.78
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.8
Diameter over insulation (mm)	2.53	2.8	3.4
Screen Coverage (%)	115		
Nom. Cross Section Drain Wire (mm ²)	0.50	0.50	0.50
Nom. Diameter Bedding (mm)	6.8	8.3	9.5
Nom. Diameter Steel Wire Braid Armouring (mm)	8.6	10.1	11.3
Nom. Overall Diameter (mm)	11.6	13.1	14.3
Cable Weight (kg/km)	205	255	301
Operating Temperature (°C)	-10 to +70		
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	C5908	C1204	C1205
Max. DC Resistance Conductor (Ω/km)	18.1	12.1	7.41
Min. Insulation Resistance (MΩ*k m)	500		
Test Voltage (Vrms)	200		
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