

# Fire Resistant Cables

## Two core, Overall Screen, LSZH/HFFR Sheath

### BS6387 CWZ

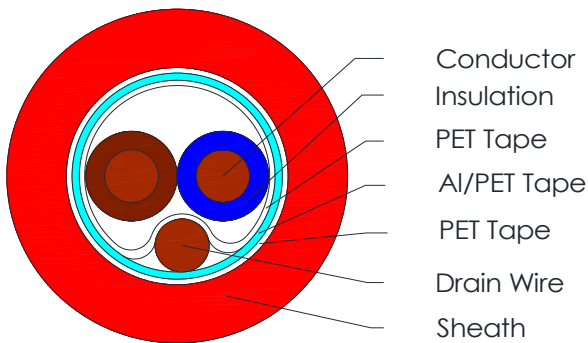


C1044, C1045, C1283, C1284, C1289, C5126

### Applications

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

### Cross Section Drawing



Conductor  
Insulation  
PET Tape  
Al/PET Tape  
PET Tape  
Drain Wire  
Sheath



Appendix to Cert/LPCB ref. No. 1168a-(c-1)/01

### Design

Unit	Properties
Conductor	2 x Solid or Flexible Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Blue Core 2: Brown
Wrapping tape	PET tape
Drain Wire	Solid Tinned Copper wire
Screen	Aluminium/Polyester tape
Wrapping tape	PET tape
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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## Two core, Overall Screen, LSZH/HFFR Sheath

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#### Physical Characteristics

Part Number	C1284	C1283	C1044*	C1045*	C1289	C5126
No of cores x cross section in sqmm (mm <sup>2</sup> )	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0	2 x 6.0
Nom. Diameter Conductor (mm)	1 x 0.98	1 x 1.13	1 x 1.38	1 x 1.78	7 x 0.83	7 x 1.04
Nom. Radial Thickness Insulation (mm)	0.7	0.6	0.7	0.8	0.8	1.0
Twist per meter	10					
Nom. Cross Section Drain Wire (mm <sup>2</sup> )	0.50	0.50	0.50	0.50	0.50	0.50
Drain Wire Stranding	1x0.8	1x0.8	1x0.8	1x0.8	1x0.8	1x0.8
Screen Coverage (%)	115					
Nom. Overall Diameter (mm)	7.5	8.0	8.5	10.5	12.5	14.3
Cable weight (kg/km)	67	75	100	143	201	254
Operating Temperature (°C)	-40 to +90 (3hrs 950°C)					
Installation Temperature (°C)	-15 to +90					
Minimum bending radius (mm)	75	78	87	99	120	140
Max. recommended pulling tension (N)	205	265	405	670	1250	1875
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					
Flame Retardancy	IEC 60332-3-24					

#### Electrical Characteristics at 20°C

Part Number	C1284	C1283	C1044*	C1045*	C1289	C5126
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61	3.08
Nom. Capacitance conductor to conductor (pF/m)	87	95	105	125	125	147
Nom. Capacitance conductor to rest (pF/m)	160	170	185	200	195	220
Min. Insulation Resistance (MΩ*km)	200					
Max. recommended current at 25°C (Amps)	12	18	21	30	40	50
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

\*Subject to LPCB certification