

# Fire Resistant Cables

## Three Core, Un-Screened, LSZH-HFFR Sheath

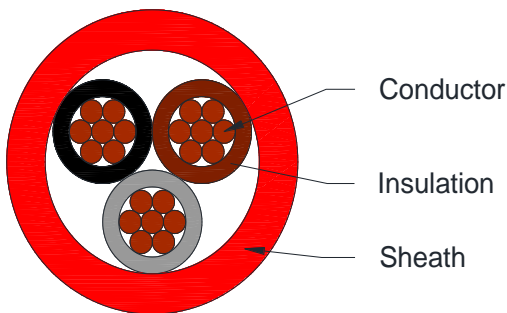


CI 152, CI 153, CI 154, CI 155, CI 156

### Applications

Three core Fire Resistant cable for Building and Industrial Management Systems

### Cross Section Drawing



### Design

Unit	Properties
Conductor	3 x Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Brown Core 2: Black Core 3: Grey
Sheath Material	Halogen Free Flame-Retardant (HFFR) Colour: red
Standard Put Up Length	305 and 500 meters

\*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, Un-Screened, LSZH-HFFR Sheath



C1152, C1153, C1154, C1155, C1156

### Physical Characteristics

Part Number	C1152	C1153	C1154	C1155	C1156
No of cores x cross section in sqmm (mm <sup>2</sup> )	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5	3 x 4.0
Nom. Diameter Conductor (mm)	1 x 1.0	1 x 1.13	1 x 1.4	1 x 1.8	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8	0.9
Nom. Diameter Insulation (mm)	2.4	2.5	2.8	3.4	4.35
Nom. Overall Diameter (mm)	7.6	7.9	8.8	10.1	12.4
Cable Weight (Kg/km)	78	83	112	156	230
Operating Temperature (°C)	-20 to +90				
Installation Temperature (°C)	-15 to +90				
Minimum bending radius (mm)	80	80	90	100	120
Max. recommended pulling tension (N)	160	210	310	520	700
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	C1152	C1153	C1154	C1155	C1156
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Mutual Capacitance (pF/m)	<100				
Min. Insulation Resistance (MΩ*k m)	200				
Max. recommended current at 25°C (Amps)	12	18	21	30	40
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