

Fire Resistant Cables-FireElite Enhanced
Three core, Overall Screen, LSZH/HFFR Sheath
BS6387 CWZ, EN 50200 PH I 20+Annex E,
BS7629-1, BS8434-2

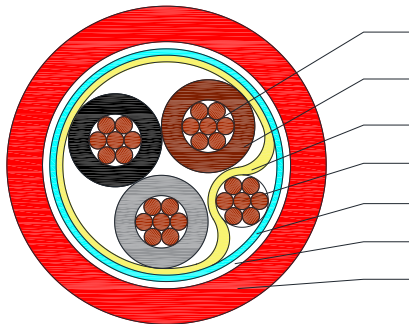


CI 5688, CI 5689, CI 5690, CI 5691, CI 5692

Applications

Screened three cores Fire Resistant cable for Building and Industrial Management Systems

Cross Section Drawing



- Conductor
- Insulation
- Mica Tape
- Drain Wire
- Al/PET Tape
- Glass-Fiber Tape
- Sheath

Design

Unit	Properties
Conductor	Stranded Bare Copper wire, Class 2
Insulation	Ceramifiable Silicon Rubber Core 1: Brown Core 2: Black Core 3: Grey
Wrapping Tape	Mica Tape
Drain Wire	Flexible Tinned Copper wire
Screen	Al/PET Tape
Wrapping Tape	Glass-Fiber 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.

Fire Resistant Cables-FireElite Enhanced
Three core, Overall Screen, LSZH/HFFR Sheath
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C15688, C15689, C15690, C15691, C15692

Physical Characteristics

Part Number	C15688	C15689	C15690	C15691	C15692
No of cores x cross section (mm ²)	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5	3 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)	0.90				
Insulation Diameter (mm)	2.90	3.10	3.36	3.80	4.35
Nom. Cross Section Drain Wire (mm ²)	0.75	1.0	1.5	2.5	4.0
Nom. Sheath thickness (mm)	1.20				
Nom. Overall Diameter (mm)	9.7	10.0	10.6	11.6	12.8
Cable weight (kg/km)	102	116	139	186	254
Bending Radius	10 x OD				
Operating Temperature (°C)	-20 to +90				
Max. Conductor Temperature (°C)	180				
Max. Short-circuit Temperature (°C)	250				
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 BS 8434-2+A2:2009	Exposed to Fire at 930°C for 120min, 60min Flame & Impact followed by 60 min flame, impact & Water spray.				
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	C15688	C15689	C15690	C15691	C15692
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Operating Voltage (Vrms)	300/500				
Max. Voltage (Vrms)	550				
Test Voltage (Vrms)	2000				

Reference Standards

EN 50290-2-27	BS 5839-1
BS 7655.6-1	EN 50200 PH120 + Annex E
BS 8519-1	BS 7629-1
IEC 60228/BS6360	BS 7671
BS 8434—1&-2	IEC 61034-1&-2
BS 6387 Cat. CWZ	IEC 60754-1&-2
BS 5266-1	EN 50363-1
IEC 60331-1-21	RoHS Directives
IEC 60332-3-24	