

Fire Resistant Cables

Two core, Unscreened with HFFR Sheath

BS6387 CWZ

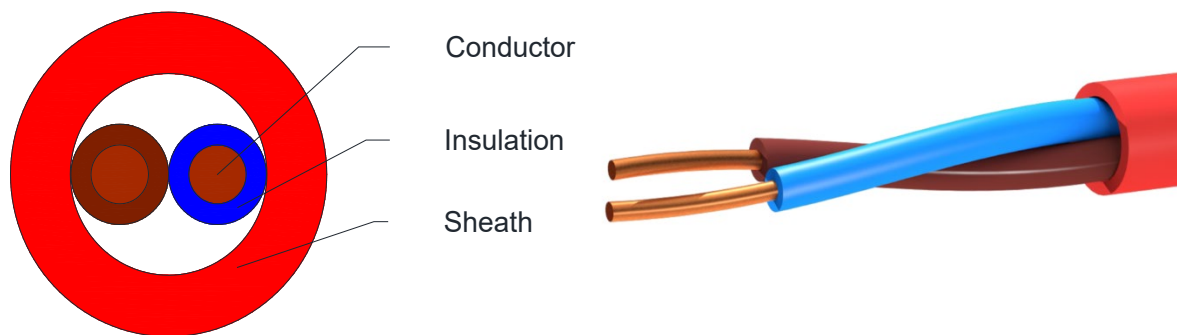


C1139, C1140, C1141, C1142, C1143

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	2 x Solid or Flexible Bare Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Blue Core 2: Brown
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.

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Physical Characteristics

Part Number	C1139	C1140	C1141	C1142	C1143
No of cores x cross section in sqmm (mm ²)	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0
Nom. Diameter Conductor (mm)	1 x 1.0	1 x 1.13	1 x 1.39	1 x 1.8	7 x 0.85 =2.55
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8	0.9
Twist per meter	10				
Nom. Overall Diameter (mm)	6.1	6.7	8.1	8.8	11.9
Cable weight (kg/km)	42	49	68	102	173
Operating Temperature (°C)	-20 to +90				
Installation Temperature (°C)	-15 to +90				
Minimum bending radius (mm)	61	67	81	88	119
Max. recommended pulling tension (N)	205	265	405	670	1250
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				
Flame Retardancy	IEC 60332-3-24				

Electrical Characteristics at 20°C

Part Number	C1139	C1140	C1141	C1142	C1143
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Nom. Capacitance conductor to conductor (pF/m)	43	45	47	48	52
Min. Insulation Resistance (MΩ*km)	200				
Max. recommended current at 25°C (Amps)	12	18	21	30	40
Max. Operating Voltage (Vrms)	300/500	300/500	300/500	300/500	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