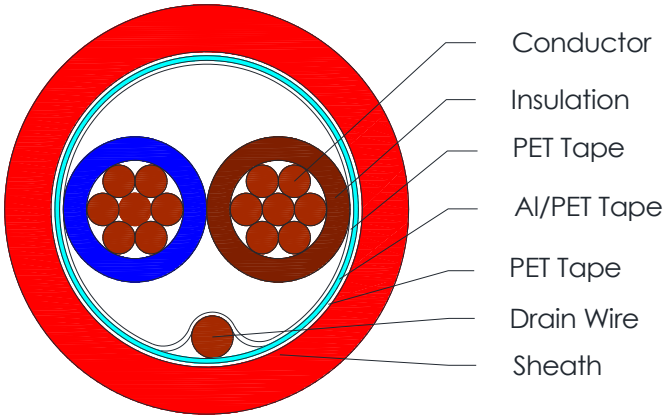
Fire Resistant Cables
Two core, Overall Screen, LSZH/HFFR Sheath
BS6387 CWZ

C5352, C5353, C5354, C5355

Applications

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

Cross Section Drawing



Design

Unit	Properties
Conductor	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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Physical Characteristics

Part Number	C5352	C5353	C5354	C5355
No of cores x cross section in sqmm (mm2)	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5
Nom. Diameter Conductor (mm)	7 x 0.37	7 x 0.42	7 x 0.52	7 x 0.67
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8
Twist per meter	10			
Nom. Cross Section Drain Wire (mm2)	0.50	0.50	0.50	0.50
Screen Coverage (%)	115			
Nom. Overall Diameter (mm)	6.4	7.1	8.5	9.3
Cable weight (kg/km)	49	58	82	107
Operating Temperature (°C)	-20 to +90			
Installation Temperature (°C)	-15 to +90			
Minimum bending radius (mm)	64	71	85	93
Max. recommended pulling tension (N)	205	265	405	670
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	C5352	C5353	C5354	C5355
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41
Nom. Capacitance conductor to conductor (pF/m)	87	95	105	125
Nom. Capacitance conductor to rest (pF/m)	160	170	185	200
Min. Insulation Resistance (MΩ*km)	200			
Max. recommended current at 25°c (Amps)	12	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