

# Flexible Fire Resistant Cables

## Three core, Overall Screen, HFFR Sheath

### BS6387 CWZ

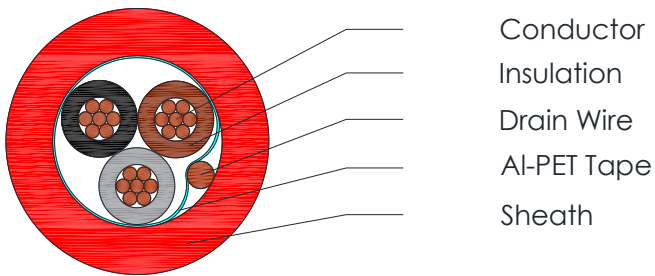


C15351, C15352, C15353, C15354

#### Applications

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

#### Cross Section Drawing



Conductor  
Insulation  
Drain Wire  
Al-PET Tape  
Sheath

#### Design

Unit	Properties
Conductor	3 x Flexible Tinned Copper wire
Insulation	Ceramifiable Silicon Rubber Core 1: Black, Core 2: Brown Core 3: Grey
Drain Wire	Solid Tinned Copper wire
Screen	Aluminium/Polyester tape
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	C15351	C15352	C15353	C15354
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
Nom. Diameter Conductor (mm)	7 x 0.37	7 x 0.43	7 x 0.52	7 x 0.67
Nom. Radial Thickness Insulation (mm)	0.7	0.7	0.7	0.8
Nom. Cross Section Drain Wire (mm <sup>2</sup> )	0.50	0.50	0.50	0.50
Screen Coverage (%)	115			
Nom. Overall Diameter (mm)	6.9	7.5	8.1	9.1
Cable weight (kg/km)	66	80	98	133
Operating Temperature (°C)	-20 to +90			
Installation Temperature (°C)	-15 to +90			
Minimum bending radius (mm)	69	75	81	91
Max. recommended pulling tension (N)	305	398	608	1005
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	C15351	C15352	C15353	C15354
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41
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