

# Flexible Fire Resistant Cables

## Two core, Overall Screen, HFFR Sheath

### BS6387 CWZ

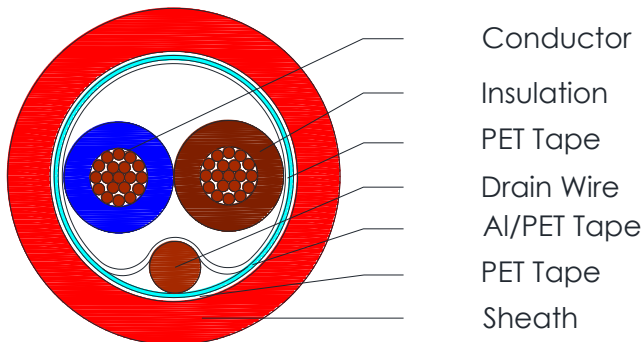


C5289, C5290, C5291, C5292

### Applications

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

### Cross Section Drawing



### Design

Unit	Properties
Conductor	2 x Flexible Tinned 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 (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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**C5289, C5290, C5291, C5292**

#### Physical Characteristics

Part Number	C5289	C5290	C5291	C5292
No of cores x cross section in sqmm (mm <sup>2</sup> )	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5
Nom. Diameter Conductor (mm)	19 x 0.22	19 x 0.26	19 x 0.31	19 x 0.41
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)	6.5	7.2	8.6	9.3
Cable weight (kg/km)	52	61	87	115
Operating Temperature (°C)	-20 to +90			
Installation Temperature (°C)	-15 to +90			
Minimum bending radius (mm)	65	72	86	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	C5289	C5290	C5291	C5292
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