

Fire Resistant Cables

Two core, Overall Screen, LSZH/HFFR Sheath

BS 6387 CWZ, EN 50200 PH I 20

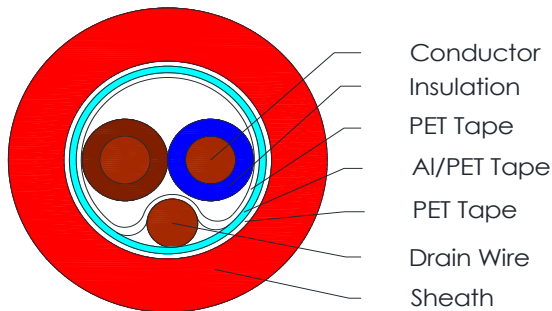


C91044, C91045, C91283, C91284, C91289, C95126

Applications

Screened two core Fire Resistant cable for Building and Industrial Management Systems. UL Certified E539056.

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
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 (-02) or White (-09)
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

Two core, Overall Screen, LSZH/HFFR Sheath

BS 6387 CWZ, EN 50200 PH120



C91044, C91045, C91283, C91284, C91289, C95126

Physical Characteristics

Part Number	C91284	C91283	C91044*	C91045*	C91289*	C95126*
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	2 x 6.0
Nom. Diameter Conductor (mm)	1 x 0.98	1 x 1.13	1 x 1.38	1 x 1.78	7 x 0.83	7 x 1.04
Nom. Radial Thickness Insulation (mm)	0.7	0.6	0.7	0.8	0.8	1.0
Twist per meter	12	11	10	8	6	5
Nom. Cross Section Drain Wire (mm ²)	0.50	0.50	0.50	0.50	0.50	0.50
Drain Wire Stranding	1x0.8	1x0.8	1x0.8	1x0.8	1x0.8	1x0.8
Screen Coverage (%)	115					
Nom. Overall Diameter (mm)	7.0	7.3	8.1	9.30	11.8	13.4
Cable weight (kg/km)	67	75	90	120	201	254
Operating Temperature (°C)	-20 to +90 (3hrs 950°C)					
Installation Temperature (°C)	-15 to +90					
Minimum bending radius (mm)	75	78	80	99	120	140
Max. recommended pulling tension (N)	205	265	405	670	1250	1875
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 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	C91284	C91283*	C91044*	C91045*	C91289*	C95126*
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61	3.08
Nom. Capacitance conductor to conductor (pF/m)	87	95	105	125	125	147
Nom. Capacitance conductor to rest (pF/m)	160	170	185	200	195	220
Min. Insulation Resistance (MΩ*km)	200					
Max. recommended current at 25°C (Amps)	12	18	21	30	40	50
Max. Operating Voltage (Vrms)	300/500					

Reference Standards

EN 50267-2-1,	BS EN 50363-1
EN 50290-2-27	EN 50200 PH120*
IEC 60228	IEC 60754-1&-2*
IEC 60332-3-24	IEC 61034-1&-2*
IEC 60331-21*	BS 6360
BS 6387 CWZ*	RoHS Directives

*Structure & Standards verified under UL Certification E539056