BT Cables™
A subsidiary of BT

Fire Resistant Cables

Two core, Overall Screen
Conforming with BS6387 CWZ
BT Cables Part No: C1044 – C1045 – C1283 – C1284 - C1289

Applications

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

Sector - BT FIREPRO-TEC™

Standard Fire Alarm Cables

Standard Put Up Length
305 and 500 metres

Design

1. **Conductor**
   2 x Bare
   Copper wire
2. **Insulation**
   Silicon Rubber blend
   Core 1: Blue,
   Core 2: Brown
3. **Cable Core lay-up**
   Two twisted wires
   10 twists per metre
4. **Drain Wire**
   Solid Bare
   Copper wire
5. **Screen**
   Aluminium/Polyester
   115% Coverage
6. **Sheath Material**
   Halogen Free
   Flame-Retardant (HFFR)

Physical Characteristics

BTCL Part Number	Unit	C1284	C1283	C1044	C1045	C1289
No of cores x cross section in sq. mm	mm2	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 1.4	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
Nom. Cross Section Drain Wire	mm2	1.5	1.5	1.5	2.5	4.0
Nom. Overall Diameter	mm	7.5	7.8	8.7	9.9	12.0
Cable weight	kg/km	67	73.4	98.1	134.3	197.1

Electrical Characteristics (at 20°C)

BTCL Part Number	Unit	C1284	C1283	C1044	C1045	C1289
No of cores x cross section in sq. mm	mm2	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0
Max. DC Resistance Conductor	Ω/km	24.5	18.1	12.1	7.41	4.61
Mutual Capacitance	pF/m	65	70	87	94	111
Min. Insulation Resistance	MΩ*km	200	200	200	200	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

Miscellaneous

BTCL Part Number	Unit	C1284	C1283	C1044	C1045	C1289
No of cores x cross section in sq. mm	mm2	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0
Operating Temperature	°C	-20 to +90	-20 to +90	-20 to +90	-20 to +90	-20 to +90
Installation Temperature	°C	-15 to +90	-15 to +90	-15 to +90	-15 to +90	-15 to +90
Minimum bending radius	mm	75	78	87	99	120
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 650°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				
Fire Retardancy		IEC 60332-3C				
Other relevant standards		BS EN 50267-2-1, BS 6234, BS 6360, BS 7655.1.1 and BS7655.6.1				

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RoHS