

## Category 5e Data Cable

### 22AWG, SF-UTP Fire Resistant Cable



**C5067**

#### Applications

Used for the transmission of data at high frequency when there is the need to ensure the transmission of the signal even in the presence of a fire.

#### Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	PE + Ceramifiable Silicone Rubber Pair 1: WHITE + BLUE
Pair	Two wires twisted together
Flame Protection	Glass-fibre tape
Screen	Aluminium/Polyester tape
Drain Wire	Tinned Copper wire
Braiding	Tinned Copper wire
Sheath Material	Halogen Free, Flame Retardant (HFFR/LSZH) Standard Colour: Red
Standard Put Up Length	305 metres

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

#### Physical Characteristics

Part Number	C5067
No. of Pairs	1
Screen type	SF-UTP
Conductor Size (AWG)	22AWG
Nom. Overall Diameter (mm)	6.8
Bending Radius (mm)	55
Nom. Cable Weight (kg/km)	48
Temperature Range (°C)	0 to 70

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#### Electrical Characteristics at 20°C

Conductor loop Resistance (Ohm/km)	Conductor to Conductor Capacitance at 1KHz (pF/m)	Conductor to Shield Capacitance at 1KHz (pF/m)	Input Impedance (Ohm)	Inductance (mH/km) at 1KHz	Test Voltage (Vac) for 1Min
120	55	70	100 ± 15	0.75	700

Frequency (MHz)	Return Loss (dB/100m)	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Maximum Time Delay (ns/100m)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.7	48.7
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.7	34.7
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.8	24.8
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8

#### Reference Standards

ISO 11801, ANSI/TIA/EIA-568-C2	IEC 61034-2
IEC 60332-3-24	IEC 60754-1 & 2
IEC 60332-1-2	BS EN 50288-2-1
CEI EN 50200 PH120	DIN VDE 4102-12
IEC 60331-21-VDE472-814	BS 6387 Cat. CWZ
EN 50267-2-1,	RoHS directives