

Category 5e Data Cable

22AWG, SF-UTP Fire Resistant Cable



C5068

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 2: WHITE + ORANGE
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	C5068
No. of Pairs	2
Screen type	SF-UTP
Conductor Size (AMG)	22AWG
Nom. Overall Diameter (mm)	8.1
Bending Radius (mm)	65
Nom. Cable Weight (kg/km)	97
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