

Category 5e Data Cable

24AWG, UTP with Plenum Rated PVC Sheath

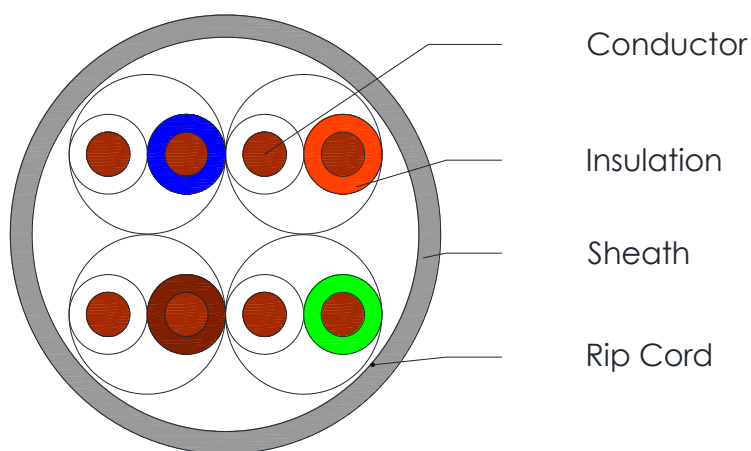


C8235

Applications

Plenum Rated cable suitable for Local Area Networks and Video Applications

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid FEP Pair 1: WHITE + BLUE Pair 2: WHITE + ORANGE Pair 3: WHITE + GREEN Pair 4: WHITE + BROWN
Pair	Two wires twisted together
Rip Cord	Nylon Yarn
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Grey
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.

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Physical Characteristics

Part Number	C8235
Screen type	UTP
No. of Pairs	4
Conductor Size (AWG)	24
Nom. Radial Thickness Sheath (mm)	0.60
Nom. Overall Diameter (mm)	5.2
Operating Temperature (°C)	0°C to +60°C
Min. Bend Radius (install) (mm)	55
Nominal Cable Weight (kg/km)	28
Maximum Pulling Tension (Newton)	160

Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Mutual Capacitance (pF/m)		Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
	UTP	FTP				
10	48	50	100 ± 15	65	45	300

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	NFC 725.154(A), ANSI/NFPA 262
EN 50290-2	RoHS directives