

Category 6 Enhanced to 600MHz Data Cables

23AWG. UTP with PVC Sheath

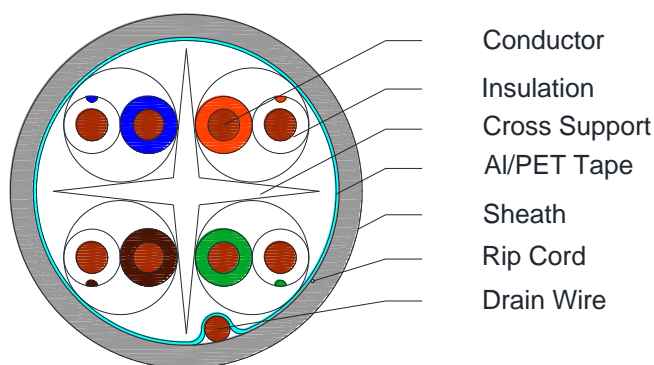


C4280

Applications

Twisted pair cable suitable for Local Area Networks and Video Applications delivering 1000base-t Gigabit Ethernet, 100BASE-TX Fast Ethernet, 622 Mbps ATM, 155 Mbps ATM and Composite Video.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid Polyethylene Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN
Pair	Two wires twisted together
Filler	Cross support
Drain Wire (FTP only)	Tinned Copper wire
Screen(FTP only)	Aluminium/Polyester tape
Rip Cord	Nylon Yarn
Sheath Material	UV and Oil Resistant Polyvinyl Chloride (PVC) Standard Color: Black
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	C4280
Screen type	UTP
No. of Pairs	4
Conductor Size (AMG)	23
Nom. Radial Thickness Sheath (mm)	0.5
Nom. Overall Diameter (mm)	6.1
Operating Temperature (°C)	-20 to +60
Min. Bend Radius (install) (mm)	61
Nominal Cable Weight (kg/km)	40.5
Maximum Pulling Tension (Newton)	160

Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Mutual Capacitance (pF/m)	Input Impedance from 1 to 250MHz (Ohm)	Velocity of Propagation @10MHz (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
9.38	56	100 ± 15	65	45	300

Freq. (MHz)	Min. Return Loss (dB)	Max. Attenuation (dB)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACRF (dB)	Min. PSACRF (dB)	Max. DELAY (ns)
1	20.0	2.1	74.3	72.3	67.8	64.8	570
4.0	23.0	3.8	65.3	63.3	55.8	52.8	552
8.0	24.5	5.3	60.8	58.8	49.7	46.7	547
10.0	25.0	5.9	59.3	57.3	47.8	44.8	545
16.0	25.0	7.5	56.2	54.2	43.7	40.7	543
20.0	25.0	8.4	54.8	52.8	41.8	38.8	542
25.0	24.3	9.4	53.3	51.3	39.8	36.8	541
31.25	23.6	10.5	51.9	49.9	37.9	34.9	540
62.5	21.5	15.0	47.4	45.4	31.9	28.9	539
100	20.1	19.1	44.3	42.3	27.8	24.8	538
200	18.0	27.6	39.8	37.8	21.8	18.8	537
250	17.3	31.1	38.3	36.3	19.8	16.8	536
300	16.8	34.3	37.1	35.1	18.3	15.3	536
400	15.9	40.1	35.3	33.3	15.8	12.8	536
500	15.2	45.3	33.8	31.8	13.8	10.8	536
550	14.9	47.7	33.2	31.2	13.0	10.0	536
600	14.7	50.1	32.6	30.6	12.2	9.2	536

Reference Standards

ISO 11801, ANSI/TIA/EIA-568-C2	IEC 60332-1
EN 50290-2	UL 1581
RoHS directives	