Category 6 Data Cables

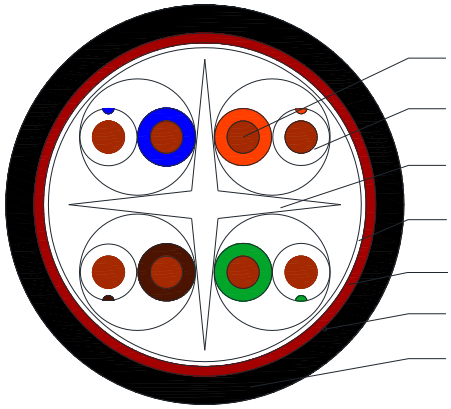
23AWG. UTP or FTP, PE Sheath Direct Burial

C6172, C6173, C6174

Applications

Direct Burial 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
Filling compound (where request)	Jelly
Wrapping (where request)	PET Tape
Drain Wire (where request)	Tinned Copper Wire
Screen (where request)	Al/PET Tape
Moisture Barrier (where request)	Water Blocking Swellable Tape
Rip Cord	Nylon Yarn
Sheath Material	UV resistant Low Density Polyethylene (LDPE) 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.

Category 6 Data Cables

23AWG. UTP or FTP, PE Sheath Direct Burial

C6172, C6173, C6174

Physical Characteristics

Part Number	C6172	C6173	C6174
Filling compound	Yes	No	Yes
PET + Moisture Barrier	No	Yes	No
PET + Drain wire + Screen	No	No	Yes
Screen Type	UTP	UTP	FTP
No. of Pairs	4	4	4
Conductor Size (AMG)	23	23	23
Nom. Radial Thickness Sheath (mm)	0.60	0.60	0.60
Nom. Overall Diameter (mm)	7.0	6.7	7.8
Min. Bend Radius (install) (mm)	70	67	78
Nominal Cable Weight (kg/km)	59	49	73

Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Max. DC Conducotor Resistance Unbalance (%)	Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
9.38	5	100 ± 15	67	45	300

Frequency (MHz)	Return Loss (dB/100m)	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
1	20.0	2.0	74.3	72.3	67.8	64.8
4	23.0	3.8	65.3	63.3	55.8	52.8
8	24.5	5.3	60.8	58.8	49.7	46.7
10	25.0	6.0	59.3	57.3	47.8	44.8
16	25.0	7.6	56.2	54.2	43.7	40.7
20	25.0	8.5	54.8	52.8	41.8	38.8
25	24.3	9.5	53.3	51.3	39.8	36.8
31.25	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100	20.1	19.8	44.3	42.3	27.8	24.8
200	18.0	29.0	39.8	37.8	21.8	18.8
250	17.3	32.8	38.3	36.3	19.8	16.8

Reference Standards

EN 50290-2	ANSI/TIA/EIA-568-C2
ISO 11801	RoHS directives