

## Category 6 Data Cables

### 23AWG. UTP or FTP Armoured with PE Sheath

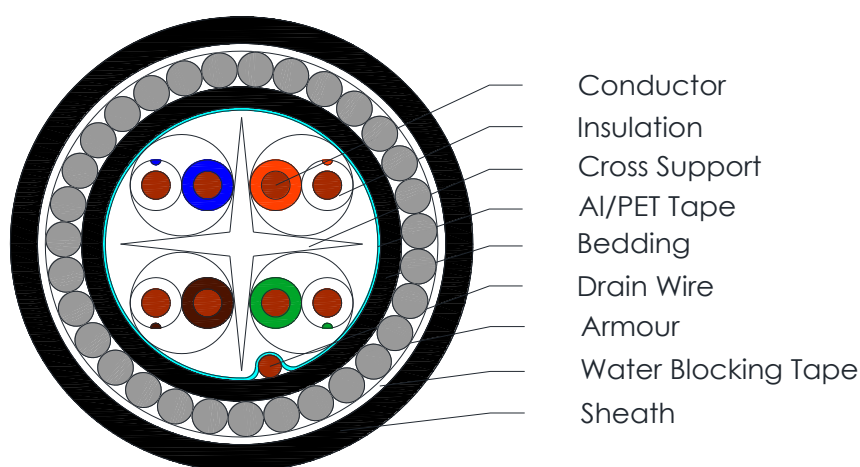


C6123, C6124

#### Applications

Outdoor 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
Bedding	PE Standard Colour: Black
Wrapping (optional for UTP)	Aluminium/Polyester tape
Armour	Galvanized Steel Wire
Moisture Barrier	Water Blocking Tape
Sheath Material	UV Resistant PE Standard Colour: 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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#### C6123, C6124

#### Physical Characteristics

Part Number	C6123	C6124
Screen type	UTP	FTP
No. of Pairs	4	
Conductor Size (AMG)	23	
Drain Wire Size (AMG)	-	26
Screen Coverage (%)	-	115
Nom. Radial Thickness Bedding (mm)	0.70	0.80
Nom. Bedding Diameter (mm)	7.1	7.8
Nom. Steel Wire Diameter (mm)	0.90	0.90
Nom. Radial Thickness Sheath (mm)	0.80	
Nom. Overall Diameter (mm)	10.5	11.2
Operating Temperature (°C)	-20 to +75	
Min. Bend Radius (install) (mm)	180	198
Nom. Cable Weight (kg/km)	237	245

#### 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				
9.38	47	48	100 ± 15	67	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	74.3	570.00	72.3	67.8	64.8
4	23.0	3.8	65.3	552.00	63.3	55.8	52.8
8	24.5	5.3	60.8	546.73	58.8	49.7	46.7
10	25.0	6.0	59.3	545.38	57.3	47.8	44.8
16	25.0	7.6	56.2	543.00	54.2	43.7	40.7
20	25.0	8.5	54.8	542.05	52.8	41.8	38.8
25	24.3	9.5	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.7	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.4	47.4	538.55	45.4	31.9	28.9
100	20.1	19.8	44.3	537.80	42.3	27.8	24.8
200	18.0	29.0	39.8	536.54	37.8	21.8	18.8
250	17.3	32.8	38.3	536.27	36.3	19.8	16.8

#### Reference Standards

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

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C6I23, C6I24