

# Category 6 Data Cables

## 23AWG. 2 to 4PR, UTP, SWA Armoured with PE Sheath

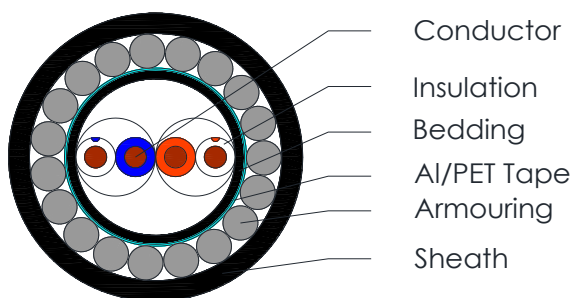


C6 I 29, C6 I 30

### Applications

Armoured 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
Bedding	Polyvinyl Chloride (PVC)
Wrapping	Al/PET Tape
Armouring	Galvanized Steel Wire
Sheath Material	UV-Resistant Polyethylene (PE) 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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#### C6129, C6130

#### Physical Characteristics

Part Number	C6129	C6130
Screen type	UTP	
No. of Pairs	2	4
Conductor Size (AMG)	23	
Nom. Radial Thickness Bedding (mm)	0.70	
Nom. Bedding Diameter (mm)	5.5	7.0
Nom. Steel Wire Diameter (mm)	0.90	
Nom. Radial Thickness Sheath (mm)	0.80	
Nom. Overall Diameter (mm)	9.0	10.6
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	125	160

#### Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Mutual Capacitance at 1KHz (pF/m)	Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
9.38	56	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	ANSI/TIA/EIA-568-C2
ISO 11801	IEC 60228
IEC 61156-5	RoHS directives