

# Outdoor Category 6A Data Cables

## 23AWG, U/UTP

### PE Sheath

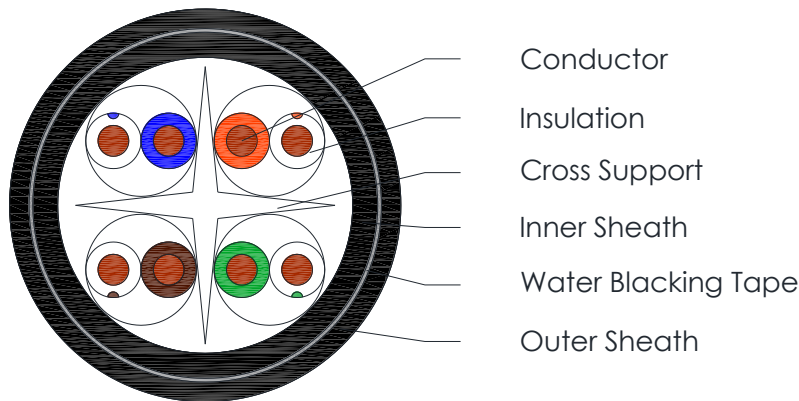


C6145

### Application

OSP-Outside Plant cable suitable for High Speed Local Area Networks and Analogue & Digital video applications

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	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
Inner Sheath	LDPE
Moisture Barrier	Water Blocking Tape
Sheath Material	UV-Resistant 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.

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C6145

### Physical Characteristics

Part Number	C6145
No. of Pairs	4
Conductor Size (AWG)	23
Nom. Bedding Diameter (mm)	6.6
Nom. Overall Diameter (mm)	9.0
Operating Temperature (°C)	-40°C to +75°C
Min. Bend Radius (install) (mm)	70
Maximum Pulling Tension (Newton)	160

### Electrical Characteristics at 20°C

Max. DC resistance conductor ( $\Omega/100m$ )	Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
9.38	100	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

### Reference Standards

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