

Light Industrial Environments Industrial Ethernet Cable: Cat 6 23-4 Pair Solid UTP



L2-6-SOL-UTP-02	4 Pair 23 AWG UTP solid bare copper conductors, polyolefin insulation, industrial grade sunlight- and oil-resistant PVC jacket. Tape separator, rip cord. Gigabit Ethernet.
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Physical Characteristics (Overall)	
Conductor	
# Pairs	4
AWG	23
Stranding	Solid
Material	BC - Bare Copper
Total # of Conductors	8
Insulation	
Material	PO - Polyolefin
Wall Thickness	.01
Outer Shield	
Type	Unshielded
Outer Jacket	
Material	Industrial Grade PVC - Polyvinyl Chloride
Nominal Wall Thickness	0.030 in.
Nominal Diameter	0.25 in.
Outer Jacket Ripcord	Yes

Overall Cable	
Overall Cabling Separator Material	Foamed Polyolefin Tape
Overall Nominal Diameter	0.25 in.
Pair Color Code Chart	
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown
Mechanical Characteristics (Overall)	
Installation Temperature Range	-20°C To +75°C
Operating Temperature Range	-40°C To +75°C
Bulk Cable Weight	98 lbs.
Max. Recommended Pulling Tension	40 lbs.
Min. Bend Radius/Minor Axis	2.5 in.
Applicable Specifications and Agency Compliance (Overall)	
Applicable Standards & Environmental Programs	
CEC/C(UL) Specification	CMG
NEC/(UL) Specification	CMR, CMX-Outdoor
EU CE Mark	Yes
Other Standards	ISO/IEC 11801 ed 2.1 (2008) Class E
EU Directive 2000/53/EC (ELV)	Yes
EU Directive 2002/95/EC (RoHS)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	10/13/2005
EU Directive 2002/96/EC (WEEE)	Yes
EU Directive 2003/11/EC (BFR)	Yes
CA Prop 65 (CJ for Wire & Cable)	Yes
MII Order #39 (China RoHS)	Yes
Telecommunication Standards	Category 6 - TIA 568.C.2
Other Specification	UL Verified to Category 6

Flame Test	
UL Flame Test	UL1666 Vertical Riser
C(UL) Flame Test	FT4
CSA Flame Test	FT4
IEEE Flame Test	1202
Suitability	
Suitability - Outdoor	Yes
Suitability – Aerial	Yes
Suitability – Burial	No
Sunlight Resistance	Yes
Oil Resistance	Yes
Plenum/Non-Plenum	
Plenum (Y/N)	No
Electrical Characteristics (Overall)	
Nom. Mutual Capacitance	
Capacitance (pF/ft):	15
Maximum Capacitance Unbalance (pF/100 m):	330
Nominal Velocity of Propagation	
VP%	72
Maximum Delay	
Delay (ns/100 m)	537 @ 100MHz
Maximum Delay Skew	
Delay Skew (ns/100 m)	45
Maximum Conductor DC Resistance	
DCR @ 20°C (Ohm/100 m)	8.2
Max. Operating Voltage - UL	
Voltage	300 V RMS
Maximum DCR Unbalanced	
DCR Unbalance @ 20°C (%)	5

Electrical Characteristics-Premise (Overall)
Premise Cable Electrical Table 1

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2	74.3	72.3	72.3	70.3	21	na
4	3.8	65.3	63.3	61.5	59.5	24	na
8	5.3	60.8	58.8	55.4	53.4	25.5	na
10	6	59.3	57.3	53.3	51.3	26	na
16	7.6	56.2	54.3	48.7	46.7	26	na
20	8.5	54.8	52.8	46.3	44.3	26	na
25	9.5	53.3	51.3	43.8	41.8	25.3	na
31.25	10.7	51.9	49.9	41.2	39.2	24.6	na
62.5	15.4	47.4	45.4	32	30	22.5	na
100	19.8	44.3	42.3	24.5	22.5	21.1	na
155	25.2	41.5	39.5	16.3	14.3	19.8	na
200	29	39.8	37.8	10.8	8.8	19	na
250	32.8	38.3	36.3	5.5	3.5	18.3	na

Premise Cable Electrical Table 2

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	67.8	64.8
4	100 ± 15	100 ± 15	55.8	52.7
8	100 ± 15	100 ± 15	49.7	46.7
10	100 ± 15	100 ± 15	47.8	44.8
16	100 ± 15	100 ± 15	43.7	40.7
20	100 ± 15	100 ± 15	41.8	38.8
25	100 ± 15	100 ± 15	39.8	36.8
31.25	100 ± 15	100 ± 15	37.9	34.9
62.5	100 ± 15	100 ± 15	31.9	28.9
100	100 ± 15	100 ± 15	27.8	24.8
155	100 ± 22	100 ± 15	23.9	20.9
200	100 ± 22	100 ± 15	21.8	18.8
250	100 ± 32	100 ± 15	19.8	16.8