

# LUMIFIBER UTP SOLUTION



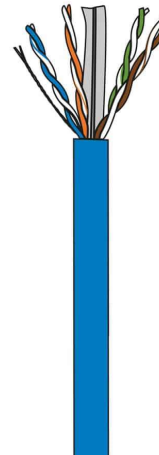
## CATEGORY 6 23AWG UTP CABLE

This cable meets or exceeds category 6/class E Attenuation and NEXT requirement in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. It features an easy to remove cross tape that delivers high performance benefits.

- Bandwidth up to 250MHz
- Suited for Gigabit Ethernet
- 23AWG solid bare copper
- Isolation member ensures stability
- Meets different flame requirement
- Blue Jacket (other colour is upon request)

### CABLE SPECIFICATION

Material	Solid Bare Copper
Diameter	0.57 ± 0.02mm (23AWG)
Insulation Diameter	0.94 ± 0.02mm
Cross Skeleton	4.5 x 0.45mm
Jacket Material	PVC
Jacket Thickness	≥0.5mm (Avg.)
Jacket Diameter	6.5 ± 0.5mm
Gross Weight	13.8Kg
Bending Radius	≥ 8 x Outer Diameter
Operation Temp	-10 °C to 60°C



### ELECTRICAL SPECIFICATIONS

Nominal Velocity of Propagation (NVP)	68%
DC Resistance	9.5Ω/100m
DC Resistance unbalance	5%
Mutual Capacitance @ 1kHz	5.6nF/100m
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500VAC   2500VDC
Operating Voltage, Maximum	80V
Standards	ANSI/TIA/EIA 568-C.2 ISO/IEC 11801:2002 Class E CENELEC EN 50173:2002 RoHS 2011/65/EU REACH EC 1907/2006



### Transmission Performance

Frequency (Mhz)	Impedence	RL (dB)	Attenuation (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	DELAY SKEW	
1	100±15	20.0	2.0	74.3	72.3	67.8	64.8	45.0	30.0
4		25.0	3.6	68.3	65.3	58.0	55.0	45.0	30.0
8		26.5	5.1	63.8	60.8	51.9	48.9	45.0	30.0
10		27.0	5.8	62.3	59.3	50.0	47.0	45.0	30.0
16		27.0	7.4	59.2	56.2	45.9	42.9	45.0	30.0
20		27.0	8.3	57.8	54.8	44.0	41.0	45.0	30.0
25		26.3	9.3	56.3	51.3	42.0	39.0	45.0	30.0
31.25		25.6	10.5	54.9	51.9	40.1	37.1	45.0	30.0
62.50		23.5	15.2	50.4	47.4	34.1	34.1	45.0	30.0
100		22.1	19.6	47.3	44.3	30.0	27.0	45.0	30.0
200		20.0	28.8	42.8	39.8	24.0	21.0	45.0	30.0
250		19.3	32.6	41.3	38.3	22.0	19.0	45.0	30.0

### ORDERING INFORMATION

PRODUCT NUMBER	DESCRIPTION	TYPE	COLOR	LENGTH	PACKAGE
LM-C6-4PUTP-23-PVC-BL	CAT6, 4Pair 23AWG UTP Horizontal Copper cable	CMR	Blue	305m	Reel