



### APPLICATION

- Structure cabling for horizontal
- Structure cabling for work area and patch cord cable
- 2.5G/5G BASE-T ( IEEE 802.3bz)
- 1000 BASE-T ( IEEE 802.3ab Gigabit Ethernet )
- 1000 BASE-TX (TIA/EIA-854)
- 100 BASE-TX ( IEEE 802.3u Fast Ethernet )
- 10 BASE-T ( IEEE 802.3i Ethernet )
- 52/155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (Type4)
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- EtherCAT Industrial standard, HDBaseT 2.0 standard
- Baseband, Broadband
- Digital and analog for data, video and audio application

### FEATURES AND BENEFIT

This specification covers the general requirements for UTP cable used for patch cord cable and indoor horizontal installation. LINK Ultra Category 6 U/UTP cables compliant ISO/IEC 11801 Class E and ANSI/TIA-568.2-D requirements for category 6 performance. These cables are characterized to 600MHz, Powersum NEXT tested. The outer jacket material made from LSZH compound to reduces the amount toxic smoke and corrosive has emitted during burned, for users safety as well as increases the safety of firefighting operations.

### ORDER INFORMATION

Part number	Description	Color	Length	Package
US-9126LSZH	Category 6, 4 Pairs, U/UTP Stranded Cable, 24AWG, LSZH, 600MHz	Blue	305 m	Pull Box

\*Other jacket color available on request.

### STANDARD

- ANSI/TIA-568.2-D Category 6
- ANSI/TIA-568-C.2 Category 6
- ISO/IEC 11801:2017 class E
- EN 50173-1 Category 6
- EN 50288-6-2
- IEC 61156-5, IEC 60332-1
- IEC 60754-1, IEC 60754-2
- IEC 61034-1, IEC 61034-2
- ICEA S-102-700 Category 6
- ASTM D4566-98
- NEMA WC 66
- UL 444
- CSA 22.2 No.214
- RoHS Compliant

### CABLE CONSTRUCTION

<b>Conductor</b>	<b>Material</b>	Stranded bare copper
	<b>No. of Conductor</b>	4 Pairs (8 wires)
	<b>Diameter</b>	7 x 0.20 mm
<b>Insulation</b>	<b>Material</b>	High Density Polyethylene (HDPE)
	<b>Diameter</b>	1.00 ±0.02 mm
<b>Ripcord</b>		Under Jacket
<b>Color code with Strip color</b>	<b>Pair 1</b>	White with blue strip + Blue
	<b>Pair 2</b>	White with orange strip + Orange
	<b>Pair 3</b>	White with green strip + Green
	<b>Pair 4</b>	White with brown strip + Brown
<b>Filler slot (Cross Filler)</b>	<b>Material</b>	FRPE
<b>Jacket</b>	<b>Material</b>	Lead free, FR-LSZH
	<b>Thickness</b>	0.55 ±0.02 mm
	<b>Color</b>	Blue
<b>Cable Diameter</b>		6.15 ±0.2 mm
<b>Marking</b>		Black color in every 2 ft
<b>Flame Rating</b>		LSZH (Low Smoke Zero Halogen)

**PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-D Category 6)**

Frequency (MHz)	Insertion Loss (dB/100m)	NEXT (dB)		ACR-N (dB)		PS NEXT (dB)		PS ACR-N (dB)		ACR-F (dB)		PS ACR-F (dB)		RL (dB)	
		Max.	min	nom	min	nom	min	nom	min	nom	min	nom	min	nom	min
0.772	1.8	79.0	82	77.2	80.2	77.0	79.0	75.2	77.2	70.0	73	67.0	69	-	-
1	2.0	78.0	81.0	76.0	79.3	76.0	78.0	73.5	75.8	69.0	72.0	66.0	68.0	20.0	28.0
4	3.8	69.8	72.8	66.0	69.0	67.0	69.0	62.7	65.0	56.5	59.5	53.5	55.5	23.0	31.0
8	5.3	65.4	68.4	60.1	62.8	63.4	65.4	57.1	58.8	51.0	53.1	48.0	50.0	24.5	32.5
10	6.0	63.8	66.8	57.8	61.1	61.2	63.2	54.5	56.8	48.5	51.5	46.4	48.4	25.0	33.0
16	7.6	60.0	63.0	52.4	55.7	58.9	60.9	49.9	52.2	45.0	48.0	42.2	44.2	25.0	33.0
20	8.5	59.0	61.0	50.5	53.3	57.0	59.0	48.0	49.8	42.5	45.5	40.1	42.1	25.0	33.0
25	9.5	57.5	60.5	48.0	51.3	56.8	58.8	44.9	47.2	41.0	44.0	37.7	39.7	24.3	32.3
31.25	10.7	56.0	59.0	45.3	46.2	54.0	56.0	42.8	44.7	38.5	41.5	35.6	37.6	23.6	31.6
62.5	15.4	50.5	53.5	35.1	38.4	52.2	54.2	33.0	35.0	33.0	36.0	29.5	31.5	21.5	29.5
100	19.8	47.5	50.5	27.7	30.9	49.8	51.8	25.6	27.8	28.5	31.5	25.8	27.8	20.1	28.1
200	29.0	44.4	47.4	15.4	18.0	45.0	47.0	12.3	13.9	22.5	25.5	21.7	23.7	18.0	26.0
250	28.9	42.9	45.9	10.9	13.1	43.2	45.2	6.5	8.6	21.2	24.2	18.0	20.0	17.3	25.3
300	32.8	41.5	43.5	4.9	6.5	40.7	42.7	1.9	4.0	18.5	21.5	15.6	17.6	16.8	24.8
350	36.4	39.5	42.5	1.0	3.1	38.5	40.5	-	-	17.5	20.5	14.5	16.5	16.3	24.3
400	39.7	38.5	41.5	-	-	37.5	39.5	-	-	16.5	19.5	13.7	15.7	15.9	23.9
450	42.9	38.0	41.0	-	-	36.5	38.5	-	-	15.5	18.5	12.8	14.8	15.5	23.5
500	46.0	37.5	40.5	-	-	35.5	37.5	-	-	14.5	17.5	11.5	13.5	15.2	23.2
550	48.9	36.7	39.7	-	-	34.5	36.5	-	-	13.5	16.5	10.7	12.7	14.9	22.9
600	51.1	36.5	39.5	-	-	34.5	36.5	-	-	13.0	15.0	10.0	12.0	14.7	22.7

**ELECTRICAL CHARACTERISTIC**

<b>Impedance</b>	100 ± 5 Ohms, 1 MHz to 600 MHz
<b>Mutual Capacitance</b>	≤ 5.6 nF Max / 100m
<b>Capacitance, Unbalance</b>	≤ 160 pF Max / 100m
<b>DC Resistance</b>	≤ 9.38 ohm Max./100m
<b>DC Resistance, Unbalance</b>	≤ 3% Max.
<b>Dielectric Strength</b>	≤ 1 kV/min
<b>Insulated Resistance</b>	≥ 5000 MΩ/km
<b>AC leakage current through overall jacket</b>	≤ 10mA (1.5 kV AC)
<b>Spark Test</b>	2.5 kV DC
<b>Propagation Delay</b>	≤ 536 ns/100m Max @600MHz
<b>Delay Skew</b>	≤ 45 ns Max
<b>NVP</b>	69%

**PHYSICAL PROPERTIES**

<b>Tensile Strength</b>	110 N (25 lbf)
<b>Ultimate Breaking Strength</b>	>400 N (90lbf)
<b>Min. Bending Radius</b>	4 X Cable Diameter
<b>Temperature</b>	<b>Installation/Operation</b> -20°C to 75°C
	<b>Storage</b> -20°C to 80°C