



US-9015LSZH

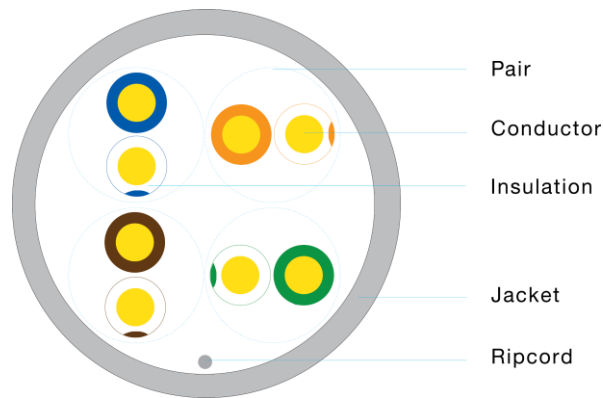
US-9015LSZH-1



Scope of Applications

This specification covers the general requirements for UTP cable used for indoor installation. LINK Ultra Category 5e U/UTP cables compliant ISO/IEC 11801 Class D and ANSI/TIA-568.2-E requirements for category 5e performance. 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.

Drawing



Technical Standards

- ANSI/TIA-568.2-E Category 5e
- ANSI/TIA-568.2-D Category 5e
- ANSI/TIA-568-C.2 Category 5e
- ISO/IEC 11801:2017 class D
- EN 50173-1 Category 5e
- EN 50288-3-1
- IEC 61156-5, IEC 60332-1
- IEC 60754-1, IEC 60754-2
- IEC 61034-1, IEC 61034-2
- ICEA S-90-661 Category 5e
- ASTM D4566-98
- NEMA WC 63.1
- UL 444
- CSA 22.2 No.214
- 3P Verified to Category 5e
- RoHS Compliant



Cable Construction

Conductor	Material	Solid bare copper
	No. of Conductor	4 Pairs (8 wires)
	Diameter	24 AWG
Insulation	Material	High-Density Polyethylene (HDPE)
	Diameter	0.87 ±0.02 mm
Insulated Conductor Color Code	Pair 1	White-Blue / Blue
	Pair 2	White-Orange / Orange
	Pair 3	White- Green / Green
	Pair 4	White-Brown / Brown
Ripcord		Under Jacket
Jacket	Material	Lead-free, FR-LSZH
	Thickness	0.51 ±0.02 mm
	Color	White
Cable Diameter		5.0 ±0.2 mm
Marking	Pkg. 1000Ft (305 m)	Black color in every 2 ft
	Pkg. 100 m	Black color in every meter
Flame Rating		LSZH (Low Smoke Zero Halogen)

Electrical Characteristic

Impedance	100 ± 15 Ohms, 1 MHz to 350 MHz
Mutual Capacitance	≤ 5.6 nF Max / 100m
Capacitance, Unbalance	≤ 160 pF Max / 100m
DC Resistance	≤ 9.38ohm Max./100m
DC Resistance, Unbalance	≤ 3% Max.
Dielectric Strength	≤ 1 kV/min
Insulated Resistance	≥ 5000 MΩ/km
AC leakage current through the overall jacket	≤ 10mA (1.5 kV AC)
Spark Test	2.5 kV DC
Propagation Delay	≤ 536 ns/100m Max @350MHz
Delay Skew	≤ 25 ns Max
NVP	69%

Physical Properties

Tensile Strength		110 N (25 lbf)
Ultimate Breaking Strength		>400 N (90lbf)
Tensile Strength of Jacket		>10 Mpa (>1400PSI)
Min. Bending Radius		4 X Cable Diameter
Temperature	Installation/Operation	-20°C to 75°C
	Storage	-20°C to 80°C



PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-E Category 5e)

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	nom
0.772	1.8	79	82	77.2	80.2	77	79	75.2	77.2	70	73	67	69	-	-
1	2	77	80	75	78.3	75	77	73	75.3	68	71	65	67	20	28
4	3.8	68	71	64.2	67.5	66	68	62.2	64.5	56	59	53	55	23	31
8	5.3	64	67	58.7	61.4	62	64	56.7	58.4	50	53	47	49	24.5	32.5
10	6	62	65	56	59.3	60	62	54	56.3	48	51	45	47	25	33
16	7.6	59	62	51.4	54.7	57	59	49.4	51.7	44	47	41	43	25	33
20	8.5	58	61	49.5	52.3	56	58	47.5	49.3	42	45	39	41	25	33
25	9.5	56	59	46.5	49.8	54	56	44.5	46.8	40	43	37	39	24.3	32.3
31.25	10.7	55	58	44.3	47.2	53	55	42.3	44.2	38	41	35	37	23.6	31.6
62.5	15.4	50	53	34.6	37.9	48	50	32.6	34.9	32	35	29	31	21.5	29.5
100	19.8	47	50	27.2	30.4	45	47	25.2	27.4	28	31	25	27	20.1	28.1
155	25.3	44	47	18.7	22.1	42	44	16.7	19.1	24	27	21	23	18.8	26.8
200	29	43	46	14	16.6	41	43	12	13.6	22	25	19	21	18	26
250	32.8	41	44	8.2	11.3	39	41	6.2	8.3	20	23	17	19	17.3	25.3
300	36.6	40	43	3.4	6.5	38	40	1.4	3.5	18	21	15	17	16.8	24.8
350	40	39	42	-	2.1	37	39	-	-	17	20	14	16	16.3	24.3

Applications

- Structure cabling for building backbone
- Structure cabling for horizontal
- 2.5G 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

Order Information

Part number	Description	Color	Length	Package
US-9015LSZH	Category 5e, 4 Pairs, U/UTP Enhanced Cable, 24AWG, LSZH, 350 MHz	White	305 m	Reelink
US-9015LSZH-1	Category 5e, 4 Pairs, U/UTP Enhanced Cable, 24AWG, LSZH, 350 MHz	White	100 m	Color Box

*Other jacket color available on request

Specifications subject to change without notice.

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