



US-9157LSZH

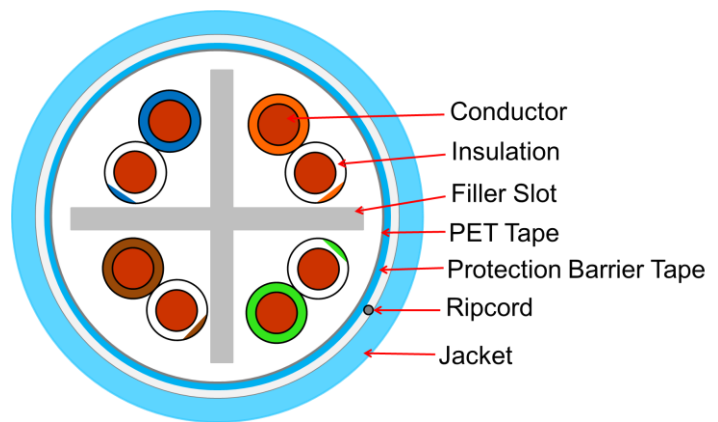


CAT 6A UTP SUPER-S (750MHz) CABLE, 23AWG, LSZH

Scope of Applications

CAT6A SUPER-S Series (Smart, Small & Save) is the innovation cable with PET tape and Protection Barrier Tape brings excellent alien crosstalk blocking. Small diameter reduces pathway space, Smaller bending radius and easy to install. Optimized design of the pitch technology greatly improves the margin of transmission performance indicators such as crosstalk and return loss, so that obtaining a higher transmission bandwidth. Environment-friendly materials, in accordance with RoHS and REACH compliance.

Drawing



Technical Standards

- ANSI/TIA-568.2-E Category 6A
- ANSI/TIA-568.2-D Category 6A
- ANSI/TIA-568-C.2 Category 6A
- ISO/IEC 11801:2017 class EA
- EN 50173-1 Category 6A
- EN 50288-11-1
- IEC 61156-5
- IEC 60332-1
- IEC 60754-1, IEC 60754-2
- IEC 61034-1, IEC 61034-2
- UL 444/NEC 800
- RoHS Compliant



Cable Construction

Conductor	Material	Solid Bare Copper
	No. of Conductor	4 Pairs (8 wires)
	Diameter	23 AWG
Insulation	Material	HDPE
	Diameter	1.10±0.1 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
Rip cord		Under Jacket
Filler Slot (Cross Filler)	Material	PE
Wrapping		PET tape and Protection Barrier Tape
Jacket	Material	Lead-free, FR-LSZH
	Thickness	0.55±0.05 mm
	Color	Aqua Blue
Cable Diameter		7.3 ±0.2 mm
Marking		Black in every 2 ft
Flame Rating		LSZH (Low Smoke Zero Halogen)

Electrical Characteristic

Impedance	100 ± 15 Ohms, 1 MHz to 750 MHz
Mutual Capacitance	≤5.6 nF Max / 100m
Capacitance, Unbalance	≤330 pF Max / 100m
DC Resistance	≤9.38 Ohms Max./100m
DC Resistance, Unbalance	5% Max.
Dielectric Strength	≤1.5 kV/min
Insulated Resistance	≥5000 MΩ/km
AC leakage current through the overall jacket	10mA
Spark Test	1.75 kV
Propagation Delay	≤536 ns/100m Max @500MHz
Delay Skew	≤45 ns Max
NVP	69%

Physical Properties

Tensile Strength		110 N (25lbf)
Ultimate Breaking Strength		>400 N (90lbf)
Tensile Strength of Jacket		>10 Mpa (>1400PSI)
Min. Bending Radius		8 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 6A)

Frequency (MHz)	Insertion Loss (dB/100m)	NEXT (dB)		ACRF (dB)		PSNEXT (dB)		PSACRF (dB)		PSANEXT (dB)		PS.AACRF (dB)		RL (dB)	
	Max	min	nom	min	nom	min	nom	min	nom	Max.	min	nom	min	nom	min
0.772	1.8	79.0	82	77.2	80.2	77.0	79.0	72.2	74.2	68.1	70.1	67.8	69.8	-	-
1	2.0	78.3	81.3	71.8	79.3	76.0	78.0	68.8	70.8	67.0	67.0	67.0	69.0	20.0	28.0
4	3.7	69.3	72.3	59.8	62.8	67.3	69.3	56.8	58.8	67.0	67.0	66.1	68.1	23.0	31.0
8	5.2	65.4	68.4	55.2	58.2	63.4	65.4	47.1	49.1	67.0	67.0	64.0	64.0	24.5	32.5
10	6.0	63.3	66.3	51.8	61.1	61.3	633	48.8	50.8	67.0	67.0	60.7	64.7	25.0	33.0
16	7.4	60.0	63.0	48.7	51.7	58.9	60.9	45.3	47.3	67.0	67.0	58.6	60.6	25.0	33.0
20	8.3	58.8	61.8	45.8	48.8	56.8	58.8	42.8	44.8	67.0	67.0	54.6	56.6	25.0	33.0
25	9.2	57.5	60.5	42.3	45.3	56.8	58.8	41.2	43.2	67.0	67.0	51.2	51.2	24.3	32.3
31.25	10.4	55.9	59.0	41.9	44.9	53.9	55.9	38.9	40.9	67.0	67.0	48.3	50.3	23.6	31.6
62.5	14.9	51.4	54.4	35.9	38.9	49.4	51.4	32.9	34.9	65.0	67.0	42.3	44.3	21.5	29.5
100	19.0	48.3	51.5	31.8	34.8	46.3	48.3	28.8	30.8	62.5	64.5	38.2	40.2	20.1	28.1
155	24.2	45.0	48.0	27.2	30.2	44.5	46.5	23.9	25.9	61.7	63.7	36.4	38.4	18.8	26.8
200	27.5	43.8	47.4	24.6	29.6	41.8	43.8	22.8	24.8	58.0	60.0	32.2	34.2	18.0	26.0
250	31.0	42.3	45.3	23.8	26.8	40.3	42.3	20.8	22.8	56.5	58.5	30.2	32.2	17.3	25.3
300	34.2	41.1	44.1	22.3	25.3	39.3	41.3	19.3	21.3	55.3	57.3	28.7	30.7	16.8	24.8
350	38.3	39.5	42.5	21.5	24.5	38.5	40.5	17.6	19.6	54.5	56.5	27.9	29.9	16.3	24.3
400	40.1	38.5	41.5	19.8	21.8	37.5	39.5	16.2	18.2	53.2	55.2	26.4	28.4	15.9	23.9
450	42.6	38.0	41.0	18.4	21.4	36.5	38.5	15.1	17.1	52.8	54.8	25.1	27.1	15.5	23.5
500	45.3	37.8	40.8	17.8	20.8	35.8	37.8	14.8	16.8	52.0	54.0	24.2	26.2	15.2	23.2
550	47.7	37.2	40.2	-	-	35.2	37.2	-	-	-	-	-	-	17.2	25.2
650	52.4	36.1	39.1	-	-	34.6	36.6	-	-	-	-	-	-	16.7	24.7
750	56.8	35.2	38.2	-	-	33.2	35.2	-	-	-	-	-	-	16.0	24.0

Applications

- Structure cabling for building backbone
- Structure cabling for horizontal
- 2.5G/5G BASE-T (IEEE 802.3bz)
- 10G BASE-T (IEEE 802.3an 10Gigabit Ethernet)
- 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-9157LSZH	CAT 6A UTP SUPER-S (750MHz) CABLE, 23AWG, LSZH	Aqua Blue	305 m	Pull in Box.

*Other jacket color available on request

Specifications subject to change without notice.

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