



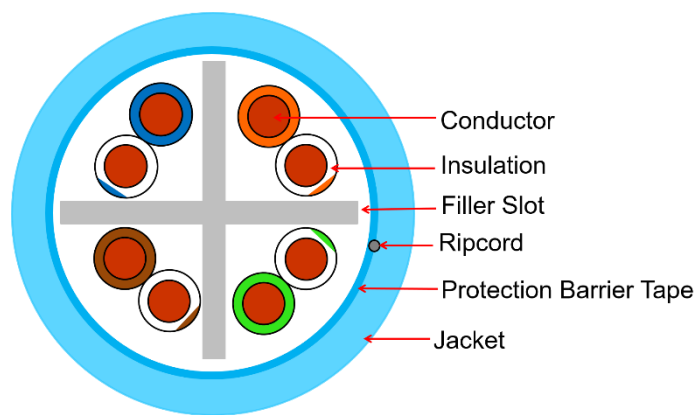
US-9156ALSZH

LINK AMERICAN STANDARD

### Scope of Application

CAT6A SUPER-S Series (Smart, Small & Save) is the innovation cable with 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 Standard

- 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
- CSA 22.2 No.214
- RoHS Compliant

### Application

- 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



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## Cable Construction

<b>Conductor</b>	<b>Material</b>	Solid bare copper
	<b>No. of Conductor</b>	4 Pairs (8 wires)
	<b>Diameter</b>	23 AWG
<b>Insulation</b>	<b>Material</b>	HDPE
	<b>Diameter</b>	1.12±0.05 mm
	<b>Pair 1</b>	White with blue strip + Blue
	<b>Pair 2</b>	White with orange strip + Orange
<b>Color code with Strip color</b>	<b>Pair 3</b>	White with green strip + Green
	<b>Pair 4</b>	White with brown strip + Brown
<b>Rip cord</b>		Under Jacket
<b>Filler Slot (Cross Filler)</b>	<b>Material</b>	FRPE
<b>Wrapping</b>		Protection Barrier Tape
	<b>Material</b>	Lead free, FR-LSZH
<b>Jacket</b>	<b>Thickness</b>	0.55±0.05 mm
	<b>Color</b>	Aqua Blue
<b>Cable Diameter</b>		7.0 ±0.2 mm
<b>Marking</b>		Black color in every 2 ft
<b>Flame Rating</b>		LSZH (Low Smoke Zero Halogen)

## ELECTRICAL CHARACTERISTIC

<b>Impedance</b>	100 ± 5 Ohms, 1 MHz to 500 MHz
<b>Mutual Capacitance</b>	5.6 nF Max / 100m
<b>Capacitance, Unbalance</b>	330 pF Max / 100m
<b>DC Resistance</b>	9.38 Ohms Max./100m
<b>DC Resistance, Unbalance</b>	4% Max.
<b>Dielectric Strength</b>	1.5 kV/min
<b>Insulated Resistance</b>	5000 M/km
<b>AC leakage current through overall jacket</b>	10mA
<b>Spark Test</b>	1.75 kV
<b>Propagation Delay</b>	534 ns/100m Max @500MHz
<b>Delay Skew</b>	40 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>	8 X Cable Diameter
<b>Temperature</b>	<b>Installation/Operation</b>
	-20C to 75C
	<b>Storage</b>
	-20C to 80C



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

Frequency (MHz)	Insertion Loss (dB/100m) Max.	NEXT (dB)		ACRF (dB)		PSNEXT (dB)		PSACRF (dB)		RL (dB)	
		min	nom	min	nom	min	nom	min	nom	min	nom
1	2.1	74.3	81.3	67.8	79.3	72.3	78.0	64.8	70.8	20.0	28.0
4	3.8	65.3	72.3	55.8	62.8	63.3	69.3	52.8	58.8	23.0	31.0
10	5.9	59.3	66.3	47.8	61.1	57.3	63.3	44.8	50.8	25.0	33.0
16	7.5	56.2	63.0	43.7	51.7	54.2	60.9	40.7	47.3	25.0	33.0
20	8.4	54.8	61.8	41.8	48.8	52.8	58.8	38.8	44.8	25.0	33.0
31.25	10.5	51.9	59.0	37.9	44.9	49.9	55.9	34.9	40.9	23.61	31.6
62.5	15.0	47.4	54.4	31.9	38.9	45.4	51.4	28.9	34.9	21.5	29.5
100	19.1	44.3	51.5	27.8	34.8	42.3	48.3	24.8	30.8	20.1	28.1
200	27.6	39.8	47.4	21.81	29.6	37.8	43.8	18.8	24.8	18.0	26.0
250	31.1	38.3	45.3	19.8	26.8	36.3	42.3	16.8	22.8	17.3	25.3
350	37.2	36.1	42.5	16.9	24.5	34.1	40.5	13.9	19.6	16.3	24.3
400	40.1	35.3	41.5	15.8	21.8	33.3	39.5	12.8	18.2	15.9	23.9
450	42.7	34.5	41.0	14.7	21.4	32.5	38.5	11.7	17.1	15.5	23.5
500	45.3	33.8	40.8	13.8	20.8	31.8	37.8	10.8	16.8	15.2	23.2

## Order Information

Part number	Description	Color	Length	Package
US-9156ALSZH	CAT 6A, UTP SUPER-S Cable, 23AWG, LSZH	Aqua Blue	305 m	Roll



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