



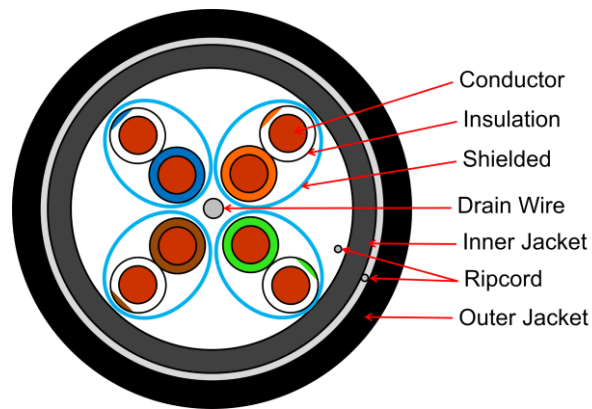
US-9256AOUT

CAT6A U/FTP SUPER-S OUTDOOR Double Jacket CABLE, 23AWG

Scope of Applications

CAT6A SUPER-S Series (Smart, Small & Save) OUTDOOR Double Jacket CABLE meets the general requirements for U/FTP cable used for both outdoor and indoor installations (remove the outer jacket for indoor installation). complies with ISO/IEC 11801 Class EA and ANSI/TIA-568.2-E requirements for Category 6A performance. The cable features individually shielded pairs to reduce alien crosstalk and enhance performance. Its small diameter reduces pathway space, allows for a smaller bending radius, and makes installation easier. These cables are characterized up to 500 MHz, Powersum NEXT tested, and RoHS certified

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 50288-10-1
- IEC 61156-5
- 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	Foam-Skin PE
	Diameter	1.330 ±0.05 mm
Color code with Strip color	Pair 1	White-Blue / Blue
	Pair 2	White-Orange / Orange
	Pair 3	White-Green / Green
	Pair 4	White-Brow / Brown
Individual Shield	Material	Al-Mylar Tape
Drain wire	Material	Stranded Tinned Copper
	Diameter	0.4 mm
Inner Jacket	Material	FR-PVC
	Thickness	0.55 ± 0.05 mm
	Diameter	7.3 ± 0.5 mm
	Color	Black
Ripcord	Under Inner Jacket and Outer Jacket	
Outer Jacket	Material	UV-Proof, PE
	Thickness	0.60 ±0.05 mm
	Color	Black
Cable Diameter	8.5 ±0.5 mm	
Marking	White in every meter	
Flame Rating	CMX	

Electrical Characteristic

Impedance	100 ± 15 Ohms, 1 MHz to 500 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 kV/min
Insulated Resistance	≥5000 MΩ/km
AC leakage current through overall jacket	10mA (1.5 kV AC)
Spark Test	2.5 kV
Propagation Delay	≤536 ns/100m Max @500MHz
Delay Skew	≤45 ns Max
NVP	74%

Physical Properties

Tensile Strength		110 N (25 lbf)
Ultimate Breaking Strength		>400 N (90lbf)
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)		PS. NEXT (dB)		PS. ACRF (dB)		PS. ANEXT (dB)		PS. AACRF (dB)		R.L. (dB)	
	Max.	min	nom	min	nom	min	nom	min	nom	min	nom	min	nom	min	nom
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	63.3	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

Applications

- 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-9256AOUT	CAT6A U/FTP SUPER-S OUTDOOR Double Jacket CABLE, 23AWG	BLACK	305 m	ROLL

*Other jacket color available on request

Specifications subject to change without notice.

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