



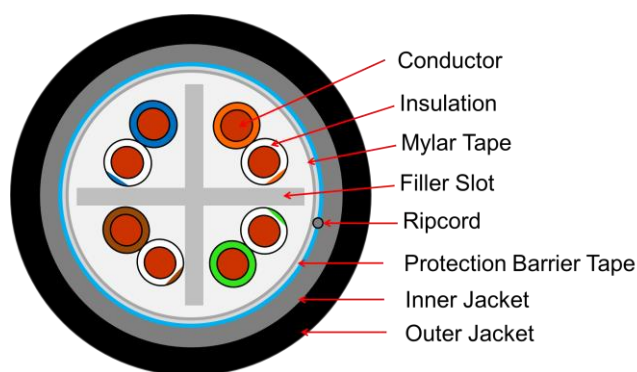
US-9156AOUT

CAT 6A UTP SUPER-S OUTDOOR Double Jacket CABLE, 23AWG

Scope of Applications

CAT 6A UTP SUPER-S (Smart, Small & Save) OUTDOOR Double Jacket CABLE meets the general requirements for UTP cable used for both outdoor and indoor installations (remove the outer jacket for indoor installation). The innovative cable, with Protection Barrier Tape, brings excellent alien crosstalk blocking. The optimized design of the pitch technology greatly improves transmission performance indicators such as crosstalk and return loss, resulting in a higher transmission bandwidth. Environmentally friendly materials are used, in accordance with RoHS and REACH compliance.

Drawing



Technical Standards

- 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
- 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	1.08±0.03 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
Filler Slot (Cross Filler)	Material	PE
Mylar Tape	Material	Polyester Tape
Wrapping		Protection Barrier Tape
Ripcord		Under Jacket
Inner Jacket	Material	FR-PVC
	Thickness	0.50±0.05 mm
	Color	Black
Outer Jacket	Material	UV-Proof, PE
	Thickness	0.50±0.05 mm
	Color	Black
Cable Diameter		8.20 ±0.3 mm
Marking		White color in every meter
Flame Rating		CMX

Electrical Characteristic

Impedance	100 ± 5 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	4% Max.
Dielectric Strength	≤1.5 kV/min
Insulated Resistance	≥5000 MΩ/km
AC leakage current through overall jacket	10mA
Spark Test	1.75 kV
Propagation Delay	≤534 ns/100m Max @500MHz
Delay Skew	≤40 ns Max
NVP	69%

Physical Properties

Tensile Strength	700 N	
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-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

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
US-9156AOUT	CAT 6A UTP SUPER-S OUTDOOR Double Jacket CABLE, 23AWG	Black	305 m

*Other jacket color available on request

Specifications subject to change without notice.

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