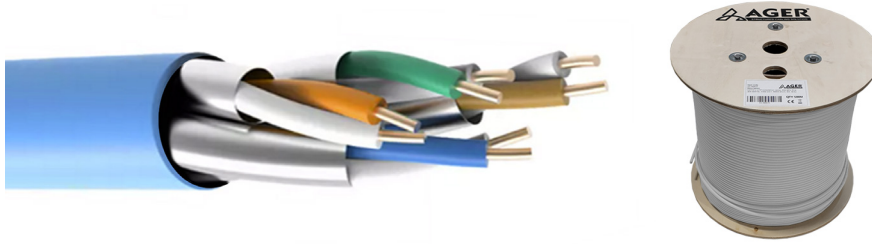


CATEGORY 6A U/FTP 23 AWG 500 Mhz HORIZONTAL LAN CABLES



Product Information

AGER CAT6A U/FTP 23AWG cables transmit data signals such as Data, Voice, and PoE at a speed of 10 Gbps over 500 MHz. Our cables meet the requirements of the globally recognized ANSI/TIA-568.2-E and ISO/IEC 11801 standards and is regularly subjected to quality tests by international testing organizations.

The cables are used in FTP applications with grounding wire located between the pairs of different colors twisted in 4 pairs. Each pair is individually covered with foil.

Supported Protocols

- IEEE 802.3an 10GBASE-T 10 Gigabit Ethernet
- TP-PMD
- 10BASE-T Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-T "Fast Ethernet"
- 100BASE-T2
- 100BASE-T4
- 100BASE-TX
- ATM 52
- ATM 25
- ATM 155
- Token Ring 100 Mbps
- Token Ring 4 Mbps and 16 Mbps
- Broadband and Baseband Video
- ISDN Basic and Primary Access
- 1BASE-5 Starlan
- ISALAN

Electrical, Transmission Properties and Shipping Information

Frekans	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20.0	-	74.3	570.0	72.3	67.8	64.8
4.0	23.0	3.8	65.3	552.0	63.3	55.8	52.8
8.0	24.5	5.3	60.8	546.7	48.8	49.7	46.7
10.0	25.0	5.9	59.3	545.4	57.3	47.8	44.8
16.0	25.0	7.5	56.2	543.0	54.2	43.7	40.7
20.0	25.0	8.4	54.8	542.1	52.8	41.8	38.8
25.0	24.3	9.4	53.3	541.2	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	49.9	37.9	34.9
62.5	21.5	15	47.4	538.6	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	42.3	27.8	24.8
200	18.0	27.6	39.8	536.5	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	31.8	13.8	10.8

All AGER Copper Horizontal Data LAN Cables are in Standard Grey colour and LSOH specification. Production can be done in different colors upon request.

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PRODUCT SHIPPING INFORMATION			
Product Code	Product Description	Outer Diameter	Weight
ACK6A-301-L5-GR	4x2x23# U/FTP CAT 6A LSOH Gray, 500m Makara	7.3 mm \pm 0.5mm	48 Kg/ Km
ACK6A-301-L5-BL	4x2x23# U/FTP CAT 6A LSOH Blue, 500m Makara	7.3 mm \pm 0.5mm	48 Kg/ Km

All AGER Copper Horizontal Data LAN Cables are in Standard Grey colour and LSOH specification.
Production can be done in different colors upon request.
This product is also available under the code AC-603-5-XX.

Mechanical and Physical Properties

MECHANICAL AND PHYSICAL PROPERTIES	
CONDUCTOR	23 AWG bare copper, solid, machined
CONDUCTOR WIRE COLORS	Blue x Blue-White, Orange x Orange-White, Green x Green-White, Brown x Brown-White
CONDUCTOR WIRE INSULATION	Polyofin
NUMBER OF WIRE	8 WIRE, 4 PER (twisted)
TAPE COATING	Yes.
FOLIO	Strip aluminum foil, 100% electrically shielded
OUTER COVER	LSOH (LSZH) Low Smoke Halogen Free
OUTER COVER COLOR	Gray RAL 7035 (Different colors can be offered upon request.)
EARTH WIRE	Yes.
BETWEEN PER'S	No.
CABLE WRITING KNOWLEDGE	Brand, Product Code, Cable Type, Related Standard, Quantity, Batch Number
CABLE DIAMETER	7.3 mm \pm 0.5mm
WORKING TEMPERATURE	- 20 , +60 C

Electrical and Transmission Properties

ELECTRICAL AND TRANSMISSION PROPERTIES	
INPUT IMPEDANCE	100 \pm 6 Ohm @ 1-500 MHz
ISOLASTONE RESISTANCE	5000 MegaOhm•Km min. @ 500 Vdc
DC RESISTANCE	93 Ohm/km max.
RESISTANCE IMBALANCE	%2 Maks.
CAPACITANCE	45 pF/m nom. @ 1 KHz
CAPACITANCE IMBALANCE (RELATIVE TO SOIL)	1500 pF/Km max. @ 1 KHz.
VOLTAGE	72 V max
ELECTRICAL RESISTANCE	1700 Volts AC / 2 Second
SIGNAL SPEED	% 77 - 78 Min.
SIGNAL TRANSMISSION TIME (Prob. Delay)	534 + 36/1 $\frac{1}{2}$ nS/100m max. 1-250 MHz
SIGNAL DELAY BETWEEN PERIODS (Scw Delay)	45 nS/100m max.
STORAGE TEMPERATURE	- 20 , +80 C
TENSILE TENSION	50 N / mm ² max
BENDING RADIUS (Short Term)	8 x Cable Diameter (mm)
BENDING RADIUS (Long Term)	4 x Cable Diameter (mm)
FLAME TEST	IEC 60332-1
CONDUCTOR TEST	UL 444