

CATEGORY 6 U/UTP 23 AWG 250 Mhz HORIZONTAL LAN CABLES



Product View

AGER CAT6 UTP 23AWG Cables carry Data, Voice and PoE type data signals at a speed of 1 Gbps at 250Mhz. It meets the requirements of the globally accepted ANSI/TIA-568.2-D-E and ISO/IEC 11801 standards and is subjected to regular quality tests by international testing organizations.

It is composed of 4 pairs of twisted wires of different colors with a plastic separator between them. There is no earthing wire or foil protection.

Supported Protocols

- 100BASE-T2
- 100BASE-T4
- 100BASE-TX
- 100BASE-T "Fast Ethernet"
- 1000BASE-T Gigabit Ethernet
- ATM 52
- ATM 25
- ATM 155
- TP-PMD
- Token Ring 100 Mbps
- Token Ring 4 Mbps and 16 Mbps
- Broadband and Baseband Video
- ISDN Basic and Primary Access
- 1BASE-5 Starlan
- ISALAN
- ITU V.21 and X.11

Transmission Specifications and Product Shipment Information

Frekans	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20.0	2.03	74.3	570.0	72.3	67.8	64.8
4.0	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.7	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.4	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.0	54.2	43.7	40.7
20.0	25.0	8.47	54.8	542.1	52.8	41.8	38.8
25.0	24.3	9.41	53.3	541.2	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.4	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.6	45.4	31.9	28.9
100	20.1	19.80	44.3	537.6	42.3	27.8	24.8
200	18.0	27.98	39.8	536.5	37.8	21.8	18.8
250	17.3	32.85	38.3	536.3	36.3	19.8	16.8

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PRODUCT SHIPMENT INFORMATION			
Product Code	Product Description	Cable Diameter	Weight
ACK6-300-L5-GR	4x2x23# U/UTP CAT 6 LS0H Gray, 500m Reel	5,8 mm ± 0,4 mm	38 Kg/ Km
ACK6-300-L5-BL	4x2x23# U/UTP CAT 6 LS0H Blue, 500m Reel	5,8 mm ± 0,4 mm	38 Kg/ Km
ACK6-300-L5-PL	4x2x23# U/UTP CAT 6 LS0H Purple, 500m Reel	5,8 mm ± 0,4 mm	38 Kg/ Km
ACK6-300-L5-OR	4x2x23# U/UTP CAT 6 LS0H Orange, 500m Reel	5,8 mm ± 0,4 mm	38 Kg/ Km

All AGER Copper transmission cables are in Standard Gray color and LS0H.
Upon request, production can be made in colors other than the above colors.

Cable Specifications

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	-
FOLIO	-
OUTER COVER	LS0H (LSZH) Low Smoke Halogen Free
OUTER COVER COLOR	Gray RAL 7035 (Different colors can be offered upon request.)
EARTH WIRE	-
BETWEEN PER'S	Plastic Separator
CABLE WRITING KNOWLEDGE	Brand, Product Code, Cable Type, Related Standard, Quantity, Batch Number
CABLE DIAMETER	5,8 mm ± 0,4 mm
WORKING TEMPERATURE	- 20 , +60 C
STORAGE TEMPERATURE	- 20 , +80 C

Electrical Properties

ELECTRICAL PROPERTIES	
INPUT IMPEDANCE	100±15 Ohm @1-100 MHz
	100±20 Ohm @100-160 MHz
	100±22 Ohm @160-250 MHz
ISOLASTONE RESISTANCE	500 MegaOhm Km min. @ 500 Vdc
DC RESISTANCE	80 Ohm/km max.
RESISTANCE IMBALANCE	%2 Maks.
CAPACITANCE	56 pF/m nom. @ 1 KHz
CAPACITANCE IMBALANCE (RELATIVE TO SOIL)	1500 pF/Km max. @ 1 KHz.
VOLTAGE	75 V max
ELECTRICAL RESISTANCE	1700 Volts AC / 2 Second
SIGNAL SPEED	% 67 - 69 Min.
SIGNAL TRANSMISSION TIME (Prob. Delay)	534 + 36/t ^{1/2} nS/100m max. 1-250 MHz
SIGNAL DELAY BETWEEN PERLERS (Scw Delay)	45 nS/100m max.
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