

CATEGORY 7 S/FTP 23 AWG 600 Mhz HORIZONTAL LAN CABLES (CLASS F ISO / IEC)



Product Information

AGER CAT7 S/FTP 23AWG cables transmit data signals such as Data, Voice, and PoE at a speed of 10 Gbps over 600 MHz. Our cables meet the requirements of the globally recognized ISO/IEC 11801 standards and is regularly subjected to quality tests by international testing organizations. Cables are used in FTP applications with grounding copper braid in close contact over the inner foils different colors foiled twisted in 4 pairs. Our cables also meet the requirements of IEC 61156-5 and EN 50288-5.

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
- ITU V.21 and X.11

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
ACK7-321-L5-GR	4x2x23# S/FTP CAT 7 LS0H Gray, 500m Reel	7.0 mm ± 0.5mm	48 Kg/ Km
ACK7-321-L5-OR	4x2x23# S/FTP CAT 7 LS0H Orange, 500m Reel	7.0 mm ± 0.5mm	48 Kg/ Km

All AGER Copper Horizontal Data LAN Cables are in Standard Grey colour and LS0H 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	
BASIC CONDUCTOR	23AWG bare annealed copper, Solid
CONDUCTOR COLORS	Blue x Blue-White, Orange x Orange-White, Green x Green-White, Brown x Brown-White
INSULATION	Polyolefin
NUMBER OF INSULATED CONDUCTORS	8 wire, 4 pair (bended)
OVERALL TAPE WRAP	NONE
FOILED	Polyester-aluminum foil (foil face out),
OUTER JACKET	LS0H (LSZH) Low Smoke Halogen Free
OUTER JACKET COLOR	Gray RAL 7035 (Other colors available upon request.)
GROUNDING	Tin-Copper Braid in close contact over the inner foils
BETWEEN PAIRS	NONE
CABLE SURFACE MARKING	Brand, Product Code, Cable Type, Standards, Meter, Batch Number
OUTER JACKET DIAMETER	7.0 mm ± 0.5mm
OPERATING TEMPERATURE	- 20 , +60 C
STORAGE TEMPERATURE	- 20 , +80 C
TENSILE STRENGTH	50 N / mm ² max
BENDING RADIUS (Short Term)	8 x OD (mm)
BENDING RADIUS (Long Term)	4 x OD (mm)
FLAME TEST	IEC 60332-1, IEC 60332-3-24 , IEC 60332-3-25
CONDUCTOR SIZE TEST	UL 444

Electrical and Transmission Properties

ELECTRICAL AND TRANSMISSION PROPERTIES	
INPUT IMPEDANCE	100±15 Ohm @ 1-100 MHz
	100±18Ω (100-250MHz)
	100±25Ω (250-600MHz)
INSULATION RESISTANCE	5000 MegaOhm•Km min. @ 500 Vdc
DC Resistance (Ω/100m) max	9,86
RESISTANCE UNBALANCE	%2 max.
CAPACITANCE	45 pF/m nom. @ 1 KHz
CAPACTANCE UNBALANCE	1600 pF/Km max. @ 1 KHz.
VOLTAGE RATING	72 V max
DIELECTRIC STRENGTH	1700 Volts AC / 2 Sec.
VELOCITY OF PROPAGATION	% 78 Min.
PROPAGATION DELAY	534 + 36/f½ nS/100m max. 1-250 MHz
PROPAGATION DELAY SKEW	25 nS/100m max. 600 Mhz