

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 LS0H 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 LS0H Gray, 500m Makara | 7.3 mm ± 0.5mm | 48 Kg/ Km |
| ACK6A-301-L5-BL | 4x2x23# U/FTP CAT 6A LS0H Blue, 500m Makara | 7.3 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 | |
|------------------------------------|--|
| 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 | LS0H (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 ± 0.5mm |
| WORKING TEMPERATURE | - 20 , +60 C |

Electrical and Transmission Properties

| ELECTRICAL AND TRANSMISSION PROPERTIES | |
|---|------------------------------------|
| INPUT IMPEDANCE | 100±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/f½ nS/100m max. 1-250 MHz |
| SIGNAL DELAY BETWEEN PERIODS (Screw Delay) | 45 nS/100m max. |
| STORAGE TEMPERATURE | - 20 , +80 C |
| TENSILE TENSION | 50 N / mm² 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 |