

CU 7725 4P / 2x4P F8

Data cable, S/FTP, 25GBase-T, AWG22, Euroclass B2ca

1200 MHz



- 1 Inner conductor: AWG22 Bare copper wire
- 2 PE insulated conductor: 1.5 mm & empty;
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Outer sheath: FRNC/LS0H



Description

Electrically and mechanically superior quality Cat.7A data cable with extended frequency range up to 1300 MHz - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and EN 50288-9-1.

Excellent shielding effect due to individually screened pairs and overall copper braid.

Easy identification of wires thanks to longitudinal colour markings.

Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

Application

High-end data cable for data centres and for structured premises cabling.

For the transmission of digital and analogue voice, video and data signals.

Suitable for all ICT network applications up to 25GBase-T (1250 MHz) up to 50 m (Channel) and up to class FA (1000 MHz) up to 100 m in accordance with EN 50173-1 and ISO/IEC 11801 as well as for multimedia applications in the CATV frequency range up to 862 MHz in accordance with IEC 15018.

Due to the increased wire section eminently suited for Power over Ethernet (PoE), PoE+ and 4PPoE.

General Properties

| | |
|--------------------------|--|
| Field of application | Indoor |
| Imprint | DATWYLER «cable type» «additional text» «batch number» «meter marks» |
| Wire colour | white/blue-white, white/orange-white, white/green-white, white/brown-white (with length stripes) |
| Installation temperature | 0 °C - +50 °C |
| Operating temperature | -20 °C - +60 °C |
| Outer sheath colour | orange |
| Outer sheath material | FRNC/LSZH |

Electrical properties

| | |
|---|------------------------------------|
| Category | Cat.7 _A |
| Coupling attenuation | 85 dB |
| Delay Skew | 15 ns/100 m |
| Gbit/s | Up to 25 Gbit/s (max. length 50 m) |
| Impedance at 100 MHz, ±5Ω | 100 Ω |
| Loop resistance at 20°C | 116 Ω/km |
| Near end unbalance attenuation LCL at 1-600 MHz | 40 dB |
| NVP % | 76 |
| operating capacity | 43 pF/m |
| Segregation class | d |
| Shielding | shielded |
| Transfer impedance 1/10/30 MHz | < 5/5/8 mΩ/m |

| Frequency [MHz] | Category | Attenuation [dB] | NEXT [dB] | PS-NEXT [dB] | ACR-N [dB] | PS-ACR-N [dB] | ACR-F [dB] | Return Loss [dB] |
|-----------------|----------------|------------------|-----------|--------------|------------|---------------|------------|------------------|
| 1 | | 1.7 | 103 | 100 | 101 | 98 | 109 | 26 |
| 4 | | 3.4 | 103 | 100 | 100 | 97 | 107 | 30 |
| 10 | | 5.3 | 103 | 100 | 98 | 95 | 105 | 33 |
| 100 | 5e | 16.9 | 103 | 100 | 86 | 83 | 93 | 33 |
| 250 | 6 | 27 | 103 | 100 | 76 | 73 | 83 | 28 |
| 500 | 6 _A | 40 | 98 | 95 | 58 | 55 | 70 | 26 |
| 600 | 7 | 42 | 96 | 93 | 54 | 51 | 65 | 25 |
| 800 | | 49 | | | 44 | | 59 | |
| 862 | | 53 | 92 | 89 | 39 | 36 | 57 | 24 |
| 1,000 | 7 _A | 56 | 90 | 87 | 34 | 31 | 54 | 23 |
| 1,200 | | 62 | 85 | 82 | 23 | 20 | 46 | 21 |

The performance data given are typical measured values.

Mechanical properties

| | |
|--|------------|
| Solid / Flex | Solid wire |
| AWG | 22 |
| Minimal crush resistance / 10cm | 1,000 N |
| Minimum bending radius during installation | 64 mm |
| Minimum bending radius permanently installed | 32 mm |
| Minimum number of impacts | 10 |
| Tensile strength (2x4P) | 240 N |
| Tensile strength (4P) | 120 N |

Standards

| | |
|---------------------------------|---|
| Cat./Class | Cat.7 _A / Class F _A |
| PoE | IEEE 802.3bt Type 4 (100W) |
| Reaction to fire (Euroclasses) | EN 13501-6: B2 _{ca} |
| Zero halogen no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA |
| Flame Propagation | IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1 |
| Flame Spread | IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2 |
| Smoke Density | IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD |
| Cables Standard | ISO/IEC 61156-5, EN 50288-9-1 |

Versions

| Material number | Product | Reaction To Fire | Dimensions n x p x [mm (AWG)] | Outer sheath dimensions [mm] | CU rate [kg/km] | Weight [kg/km] | Fire load [kWh/m] | Packing unit | GTIN / EAN |
|-----------------|--------------|------------------|-------------------------------|------------------------------|-----------------|----------------|-------------------|--------------|----------------|
| 19434900BK | CU 7725 4P | B2ca-s1a,d1,a1 | 4 x 2 x 0.62 (AWG22) | 7.6 | | 62 | | 1000 m drum | 40393910022933 |
| 19434900BL | CU 7725 4P | B2ca-s1a,d1,a1 | 4 x 2 x 0.62 (AWG22) | | | 62 | | 500 m drum | 40393910022926 |
| 19435002BL | CU 7725 2x4P | B2ca-s1b,d1,a1 | 2 x (4 x 2 x 0.62 (AWG22)) | 7.6 x 16.2 | 69.8 | 125 | 0.36 | 500 m drum | 40393910022827 |

Subject to technical modification

As of 2022-08-12 07:39:12