

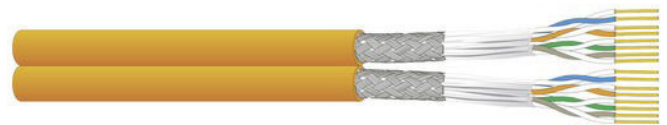
## CU 7725 4P / 2x4P F8

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

1300 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 30 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.

### Construction

|                       |           |
|-----------------------|-----------|
| Outer sheath material | FRNC/LSZH |
| Outer sheath colour   | orange    |

## General properties

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

## Electrical properties

|   |   |
|---|---|
| Category  | Cat.7 <sub>A</sub>  |
| Gbit/s  | 25GBase-T up to 30 m; 25 Gbit/s up to max. 50 m according to ISO/IEC 11801-9905 |
| Loop resistance at 20 °C                        | 116 Ω/km  |
| Operating capacity                              | 43 pF/m   |
| Impedance at 100 MHz, ±5Ω                       | 100 Ω   |
| NVP %   | 76  |
| Delay skew                                      | 15 ns/100 m   |
| Shielding                                       | shielded  |
| Near end unbalance attenuation LCL at 1-600 MHz | 40 dB   |
| Transfer impedance 1/10/30 MHz                  | < 5/5/8 mΩ/m  |
| Coupling attenuation                            | 85 dB   |
| Segregation class                               | d   |

| 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 <sub>A</sub> | 40               | 98        | 95           | 58         | 55            | 70         | 26               |
| 600             | 7              | 42               | 96        | 93           | 54         | 51            | 65         | 25               |
| 800             |                | 49               |           |              |            |               |            |                  |
| 862             |                | 53               | 92        | 89           | 39         | 36            | 57         | 24               |
| 1,000           | 7 <sub>A</sub> | 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         |
| Minimum bending radius (permanently installed) | 32 mm      |
| Minimal crush resistance / 10cm                | 1,000 N    |
| Minimum bending radius (during installation)   | 64 mm      |
| Minimum number of impacts                      | 10         |

## Standards

|                                 |   |
|---------------------------------|---|
| Reaction to fire                | EN 13501-6  |
| Euroclass                       | C <sub>ca</sub>   |
| Smoke density                   | IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 SD |
| Zero halogen no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA  |
| Flame propagation               | IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1     |
| Flame spread                    | IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Section 4.3.3 F2                     |
| Cables standard                 | ISO/IEC 61156-5, EN 50288-9-1   |
| Cat./Class                      | Cat.7 <sub>A</sub> / Class F <sub>A</sub>                                     |
| PoE                             | IEEE 802.3bt Type 4 (100W)  |

## 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     |
|-----------------|--------------|------------------|-------------------------------|------------------------------|-----------------|----------------|-------------------|--------------|----------------|
| 19434900CK      | CU 7725 4P   | Cca-s1a,d1,a1    | 4 x 2 x 0.62 (AWG22)          | 7.4                          | 34.9            | 57.8           | 0.146             | 1000 m drum  | 40393910022902 |
| 19434900CL      | CU 7725 4P   | Cca-s1a,d1,a1    | 4 x 2 x 0.62 (AWG22)          | 7.4                          | 34.9            | 57.8           | 0.146             | 500 m drum   | 40393910022896 |
| 19435002CL      | CU 7725 2x4P | Cca-s1b,d1,a1    | 2 x (4 x 2 x 0.62 (AWG22))    | 7.6 x 16.2                   | 69.8            | 127.4          | 0.36              | 500 m drum   | 40393910022803 |