

CU 7702 4P flex Industrial PUR

Industrial flexible data cable, S/FTP, Category 7, AWG26, Euroclass Eca



- 1 Inner conductor: AWG26, bare copper wire, stranded
- 2 PE insulated conductor: Ø 0.99 mm
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: tinned braided copper
- 5 Outer sheath: PUR orange RAL 2003



Description

Electrically and mechanically superior quality Cat.7 patch cord with PUR sheath - exceeds the requirements of ISO/IEC 11801, IEC 61156-6, EN 50173-1 and EN 50288-4-2.

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

Easy wire identification and termination due to different coloured wires.

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

Compatible with Datwyler IP67 RJ45 plug.

Application

As patch cord in patch panels and as equipment connection cable - designed for use in industrial areas.

Oil resistant.

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

For flexible workplace cabling with long patch cords.

Especially suitable for CP (Consolidation Point) applications.

Suitable for all ICT network applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

Applicable for Power over Ethernet (PoE) / PoE+.

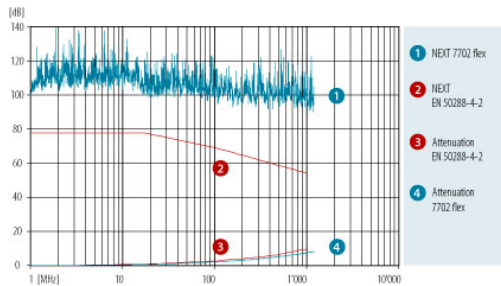
General Properties

| | |
|--------------------------|--|
| Imprint | DATWYLER «cable type» «additional text» «batch number» «meter marks» |
| Installation temperature | 0 °C - +50 °C |
| Operating temperature | -30 °C - +60 °C |
| Wire colour | white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked) |

Electrical properties

| | |
|---|------------|
| Category | Cat.7 |
| Coupling attenuation | 70 dB |
| Delay Skew | 4 ns/100 m |
| EMC | shielded |
| Impedance at 100 MHz, ±5Ω | 100 Ω |
| Loop resistance at 20°C | 270 Ω/km |
| Near end unbalance attenuation LCL at 1-600 MHz | 40 dB |

| | |
|--------------------|---------|
| NVP % | 78 |
| operating capacity | 43 pF/m |
| Segregation class | c |
| Transfer impedance | 10 mΩ/m |



| Frequency | Category [1 MHz] | NEXT [1 MHz] | PS-NEXT [1 MHz] | ACR-N [1 MHz] 10M | PS- | ACR-F [1 MHz] 10M | Return Loss [1 MHz] |
|-----------|------------------|--------------|-----------------|-------------------|-----|-------------------|---------------------|
| 1 | | 100 | 97 | 100 | 97 | 100 | 26 |
| 4 | | 100 | 97 | 99 | 96 | 99 | 32 |
| 10 | | 100 | 97 | 99 | 96 | 99 | 35 |
| 100 | 5e | 100 | 97 | | 94 | 97 | 30 |
| | | | | 97 | | | |
| 250 | 6 | 95 | 92 | 91 | 88 | 95 | 27 |
| 500 | 6 _A | 92 | 89 | 86 | 83 | 91 | 24 |
| 600 | 7 | 90 | 87 | 83 | 80 | 88 | 23 |

Mechanical properties

| | |
|---------------------------|--------------------------|
| Minimum bending radius | 34 mm |
| Minimum number of impacts | 10 |
| Repeated bending | 1000 cycles |
| Solid / Flex | Stranded wire (flexible) |
| Tensile strength (4P) | 56 N |

Standards

| | |
|---------------------------------|--|
| Cat./Class | Cat 7 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed |
| Oil resistance | IEC 60811-404, EN 60811-2-1 |
| PoE | IEEE 802.3af |
| Reaction to fire (Euroclasses) | EN 13501-6 |
| 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 |

Versions

| Material number | Product | Reaction To Fire | Outer sheath colour | Diameter mm ² | Outer sheath diameter [mm] | CU rate [kg/km] | Weight [kg/km] | Fire load [kWh/m] | Packing unit |
|-----------------|---------------------|------------------|---------------------|--------------------------|----------------------------|-----------------|----------------|-------------------|--------------|
| 18768800EK | CU 7702 4P Flex PUR | Eca | orange | 0.132 | 6.4 | 18.1 | 42 | 0.15 | 1000 m drum |
| 18768800EZ | CU 7702 4P Flex PUR | Eca | orange | 0.132 | 6.4 | 18.1 | 42 | 0.15 | by the metre |