

CU 7702 4P flex

Flexible data cable, S/FTP, Category 7, AWG26, Euroclass Cca



- 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: FRNC/LSOH, various colours possible



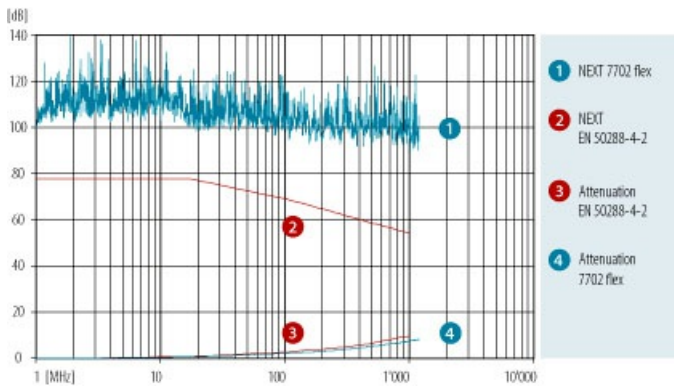
DESCRIPTION

Electrically and mechanically superior quality Cat.7 patch cord - 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, ISO/IEC 11801 and 60603-x.

APPLICATION

As patch cord in patch panels and as equipment connection cable, especially suitable for CP (Consolidation Point) applications. For the transmission of digital and analogue voice, video and data signals. Suitable for all ICT network applications up to class F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801. Optimized for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018. Applicable for Power over Ethernet (PoE) / PoE+.

GRAPH



ELECTRICAL CHARACTERISTICS

| Category | 1 | 4 | 10 | 5e | 6 | 6 _A | 7 | | |
|----------------------|------|-----|------|------|-----|----------------|------|-----|-----|
| Frequency [MHz] | 1 | 4 | 10 | 100 | 250 | 500 | 600 | 800 | 862 |
| Attenuation [dB/10m] | 0.26 | 0.5 | 0.79 | 2.67 | 4.3 | 6.2 | 6.71 | 7.9 | 8.3 |
| NEXT [dB] | 100 | 100 | 100 | 100 | 95 | 92 | 90 | 90 | 90 |
| ACR-N [dB/10m] | 97 | 97 | 97 | 97 | 92 | 89 | 87 | 87 | 87 |
| PS-ACR-N [dB/10m] | 100 | 99 | 99 | 97 | 91 | 86 | 83 | 82 | 82 |
| ACR-F [dB/10m] | 97 | 96 | 96 | 94 | 88 | 83 | 80 | 79 | 79 |
| PS-ACR-F [dB/10m] | 100 | 99 | 99 | 97 | 95 | 91 | 88 | 87 | 87 |
| PS ELFEXT [dB] | 97 | 96 | 96 | 94 | 92 | 88 | 85 | 84 | 84 |
| Return loss [dB] | 26 | 32 | 35 | 30 | 27 | 24 | 23 | 21 | 21 |

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

| | |
|--|--------------------|
| Category: | Cat.7 |
| Coupling attenuation: | 70 dB |
| Delay Skew: | 4 ns/100 m |
| Impedance at 100 MHz, $\pm 5\Omega$: | 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 |
| Transfer impedance 1/10/30 MHz: | |

MECHANICAL PROPERTIES

| | |
|----------------------------------|-----------------|
| Minimum bending radius: | 20 mm |
| Repeated bending: | |
| Tensile strength (4P): | 56 N |
| Minimal crush resistance / 10cm: | 600 N |
| Minimum number of impacts: | 10 |
| Installation temperature: | 0 °C - +50 °C |
| Operating temperature: | -20 °C - +60 °C |

NOTE

STANDARDS

| | |
|----------------------------------|--|
| Reaction to fire (Euroclass) | EN 13501-6: C _{ca} |
| Wire colour | white/bluered/orangeblack/greenyellow/brownin accordance with IEC 60189 and IEC 60708 |
| Imprint | DATWYLER «cable type» «additional text» «batch number» «meter marks» |
| 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 |
| Smoke density | IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD - applies to FRNC/LS0H |
| PoE | IEEE 802.3af |
| EMC | shielded |
| Segregation class | c |
| Cat./Class | Cat 7 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed |

VERSIONS

| Article No. | DoP | Product | Reaction to fire (Euroclass) | Dimensions n x p x [mm ² (AWG)] | Sheath | Sheath colour | Sheath Ø [mm] | Weight [kg/km] | Cu rate [kg/km] | Fire load [MJ/m] | Fire load [kWh/m] | PU |
|-------------|-----|-----------------|------------------------------|--|-----------|---------------|---------------|----------------|-----------------|------------------|-------------------|-------------|
| 18844000CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | white | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18114600CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | grey | 5.8 | 36 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18124300CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | yellow | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18277300CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | red | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18278400CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | orange | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18287100CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | black | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18287200CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | green | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18287300CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | blue | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |
| 18565500CK | | CU 7702 4P Flex | Cca-s1,d1,a1 | 4 x 2 x 0.132 (AWG26) | FRNC/LSZH | purple | 5.8 | 40 | 18.1 | 0.38 MJ/m | 0.11 | 1000 m drum |