

CU 7080 4P / 2x4P F8

Data cable, S/FTP, Category 7, AWG23, Euroclass Cca



- 1 Inner Conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.4 Ø
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Outer sheath: FRNC/LSOH Orange RAL 2003



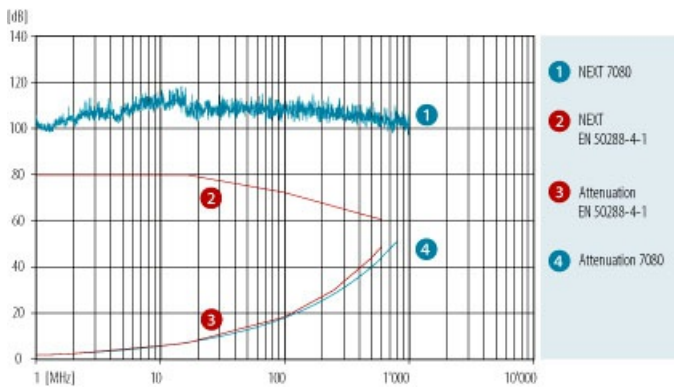
DESCRIPTION

Electrically and mechanically superior quality Cat.7 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1. Excellent shielding effect due to individually screened pairs and overall copper braid. Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

APPLICATION

Data cable for structured premises cabling. 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 and for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018. Applicable for Power over Ethernet PoE / PoE+ / 4PPoE.

GRAPH



ELECTRICAL CHARACTERISTICS

| Category | 1 | 4 | 10 | 5e | 6 | 6A | 7 | 800 | 862 | 1200 |
|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|
| Frequency [MHz] | 1 | 4 | 10 | 100 | 250 | 500 | 600 | 800 | 862 | 1200 |
| Attenuation [dB/100m] | 1.9 | 3.6 | 5.6 | 17.9 | 28 | 41 | 46 | 52 | 54 | 63 |
| NEXT [dB] | 100 | 100 | 100 | 100 | 100 | 92 | 90 | 84 | 83 | 80 |
| PS NEXT [dB] | 97 | 97 | 97 | 97 | 97 | 89 | 87 | 81 | 80 | 77 |
| ACR-N [dB] | 98 | 96 | 94 | 82 | 72 | 51 | 44 | 32 | 29 | 17 |
| PS-ACR-N [dB] | 95 | 93 | 91 | 79 | 69 | 48 | 41 | 29 | 26 | 14 |
| ACR-F [dB] | 98 | 98 | 98 | 78 | 69 | 56 | 45 | 39 | 37 | 28 |
| PS-ACR-F [dB] | 95 | 95 | 95 | 75 | 66 | 53 | 42 | 36 | 34 | 25 |
| Return loss [dB] | 26 | 30 | 33 | 33 | 28 | 26 | 25 | 23 | 22 | 18 |

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

| | |
|--|------------------------|
| Category: | Cat.7 |
| Coupling attenuation: | 85 dB |
| Delay Skew: | 12 ns/100 m |
| Impedance at 100 MHz, $\pm 5\Omega$: | 100 Ω |
| Loop resistance at 20°C: | < 140 Ω /km |
| Near end unbalance attenuation LCL at 1-600 MHz: | 40 dB |
| NVP %: | 81 |
| operating capacity: | 42 pF/m |
| Transfer impedance 1/10/30 MHz: | < 6/6/10 m Ω /m |

SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, 2.5GBase-T, 5GBase-T, 10GBase-T, Fieldbus

MECHANICAL PROPERTIES

| | |
|---|-----------------|
| Minimum bending radius during installation: | 60 mm |
| Minimum bending radius permanently installed: | 30 mm |
| Tensile strength (4P): | 110 N |
| Tensile strength (2x4P): | 220 N |
| Minimal crush resistance / 10cm: | 1,000 N |
| Minimum number of impacts: | 10 |
| Installation temperature: | 0 °C - +50 °C |
| Operating temperature: | -20 °C - +60 °C |

STANDARDS

| | |
|----------------------------------|---|
| Reaction to fire (Euroclass) | EN 13501-6: C _{ca} |
| Wire colour | white/bluewhite/orangewhite/greenwhite/brown in 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 |
| 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 |
| PoE | IEEE 802.3bt |
| EMC | shielded |
| Segregation class | d |
| Cat./Class | Cat 7 / Class F - limit values as specified by IEC 61156-5 and EN 50288-4-1 guaranteed |

VERSIONS

| Article No. | DoP | Product | Reaction to fire (Euroclass) | Dimensions n x p x [mm (AWG)] | Sheath | Sheath colour | Sheath \varnothing [mm] | Weight [kg/km] | Cu rate [kg/km] | Bending radius [mm] | Tensile load [N] | Fire load [MJ/m] | Fire load [kWh/m] | PU |
|-------------|-----|--------------|------------------------------|-------------------------------|-----------|---------------|---------------------------|----------------|-----------------|---------------------|------------------|------------------|-------------------|-------------|
| 18291100CK | | CU 7080 4P | Cca-s1a,d1,a1 | 4 x 2 x 0.57 (AWG23) | FRNC/LSZH | orange | 7.2 | 55 | 31.1 | 30 | 110 | 0.57 MJ/m | 0.16 | 1000 m drum |
| 18291200CL | | CU 7080 2x4P | Cca-s1a,d1,a1 | 2 x (4 x 2 x 0.57 (AWG23)) | FRNC/LSZH | orange | 7.2 x 15.4 | 110 | 62.2 | 30 | 220 | 1.14 MJ/m | 0.32 | 500 m drum |