# CU 7060 4P / 2x4P F8

Data cable, S/FTP, Category $6_A$, AWG23, Euroclass Dca

650 MHz




1 Inner conductor: AWG23 Bare copper wire
2 PE insulated conductor: 1.3 mm Ø
3 Screen (pair): Alu PETP foil
4 Overall screen: Tinned braided copper
5 Outer sheath: FRNC/LS0H

## Description

Electrically and mechanically superior quality Cat.6A data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and prEN 50288-10-1.
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 EA applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable for Power over Ethernet (PoE) / PoE+.

## General Properties

| | |
|---|---|
| Field of application | Indoor |
| Imprint | DATWYLER «cable type» «additional text» «batch number» «meter marks» |
| Wire colour | white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708 |
| 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.$6_A$ |
| Coupling attenuation | 70 dB |
| Delay Skew | 4 ns/100 m |
| GBit\s | Up to 10 Gbit/s |
| Impedance at 100 MHz, ±5Ω | 100 Ω |
| Loop resistance at 20°C | 146 Ω/km |
| Near end unbalance attenuation LCL at 1-600 MHz | 40 dB |
| NVP % | 80 |
| operating capacity | 42 pF/m |
| Segregation class | c |
| Shielding | shielded |
| Transfer impedance 1/10/30 MHz | < 9/12/30 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 | | 2.1 | 93 | 90 | 91 | 88 | 96 | 26 |
| 4 | | 3.8 | 93 | 90 | 89 | 86 | 96 | 28 |
| 10 | | 5.9 | 93 | 90 | 87 | 84 | 96 | 30 |
| 100 | 5e | | 93 | 90 | 73 | 70 | 74 | 30 |
| 250 | 6 | 30 | 82 | 79 | 52 | 49 | 61 | 27 |
| 500 | $6_A$ | 43 | 77 | 74 | 34 | 31 | 43 | 25 |
| 600 | | 47 | 75 | 72 | 28 | 25 | 39 | 24 |
| 650 | | 50 | 72 | 69 | 25 | 22 | 32 | 23 |

The performance data given are typical measured values.

## Mechanical properties

| | |
|---|---|
| Solid / Flex | Solid wire |
| AWG | 23 |
| Minimal crush resistance / 10cm | 1,000 N |
| Minimum bending radius during installation | 65 mm |
| Minimum bending radius permanently installed | 30 mm |
| Minimum number of impacts | 10 |
| Tensile strength (2x4P) | 190 N |
| Tensile strength (4P) | 95 N |

## Standards

| | |
|---|---|
| Cat./Class | Cat.$6_A$ / Class $E_A$ |
| PoE | IEEE 802.3bt Type 4 (100W) |
| Reaction to fire (Euroclasses) | EN 13501-6: $D_{ca}$ |
| 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 50288-10-1 |

## 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 |
|---|---|---|---|---|---|---|---|---|---|
| 18292400DK | CU 7060 4P | Dca-s2,d1,a1 | 4 x 2 x 0.55 (AWG23) | 6.8 | 26.4 | 47.5 | 0.14 | 1000 m drum | 40393910040500 |
| 18292400DL | CU 7060 4P | Dca-s2,d1,a1 | 4 x 2 x 0.55 (AWG23) | 6.9 | 26.4 | 47.5 | 0.14 | 500 m drum | 40393910040494 |
| 18292700DL | CU 7060 2x4P | Dca-s2,d1,a1 | 2 x (4 x 2 x 0.55 (AWG23)) | 7.1 x 15 | 52.8 | 103 | 0.304 | 500 m drum | 40393910040272 |