

## 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



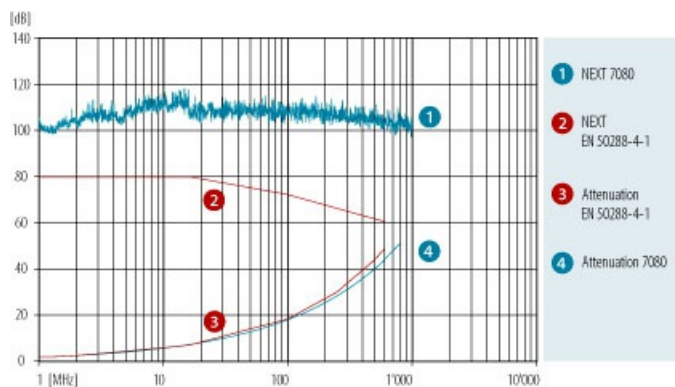
### DESCRIPTION

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   |     |     |      |
|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|
| 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 $\Omega$           |
| Loop resistance at 20°C:                         | < 140 $\Omega$ /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 $\Omega$ /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 (Euroclasses)   | EN 13501-6: C <sub>ca</sub>                                                             |
| 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<br>(Euroclasses) | Dimensions n x p x<br>[mm (AWG)] | Sheath    | Sheath<br>colour | Sheath Ø<br>[mm] | Weight<br>[kg/km] | Cu rate<br>[kg/km] | Bending<br>radius [mm] | Tensile<br>load [N] | Fire load<br>[MJ/m] | Fire load<br>[kWh/m] | PU             |
|-------------|-----|-----------------|-----------------------------------|----------------------------------|-----------|------------------|------------------|-------------------|--------------------|------------------------|---------------------|---------------------|----------------------|----------------|
| 18291100CK  |     | CU 7080<br>4P   | Cca-s1a,d1,a1                     | 4 x 2 x 0.57 (AWG23)             | FRNC/LS0H | orange           | 7.2              | 55                | 31.1               | 30                     | 110 N               | 0.57 MJ/m           | 0.16                 | 1000 m<br>drum |
| 18291200CL  |     | CU 7080<br>2x4P | Cca-s1a,d1,a1                     | 2 x (4 x 2 x 0.57<br>(AWG23))    | FRNC/LS0H | orange           | 7.2 x 15.4       | 110               | 62.2               | 30                     | 220 N               | 1.14 MJ/m           | 0.32                 | 500 m<br>drum  |