

## CU 7052 4P / 2x4P F8

Data cable, F/FTP, Category 7, AWG23, Euroclass D<sub>ca</sub>



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



### DESCRIPTION

Electrically and mechanically advanced quality Cat.7 data cable - fulfils 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 foil screen. 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+.

### ELECTRICAL CHARACTERISTICS

| Category              |     |     |     | 5e   | 6   | 6A  | 7   |     |
|-----------------------|-----|-----|-----|------|-----|-----|-----|-----|
| Frequency [MHz]       | 1   | 4   | 10  | 100  | 250 | 500 | 600 | 862 |
| Attenuation [dB/100m] | 1.9 | 3.6 | 5.6 | 17.9 | 28  | 41  | 46  | 54  |
| NEXT [dB]             | 98  | 98  | 98  | 98   | 98  | 90  | 88  | 81  |
| PS NEXT [dB]          | 95  | 95  | 95  | 95   | 95  | 87  | 85  | 78  |
| ACR-N [dB]            | 96  | 94  | 92  | 80   | 70  | 56  | 42  | 27  |
| PS-ACR-N [dB]         | 93  | 91  | 89  | 77   | 67  | 53  | 39  | 24  |
| ACR-F [dB]            | 96  | 96  | 96  | 76   | 68  | 54  | 43  | 35  |
| PS-ACR-F [dB]         | 93  | 93  | 93  | 73   | 64  | 51  | 40  | 32  |
| Return loss [dB]      | 24  | 28  | 31  | 31   | 26  | 24  | 23  | 20  |

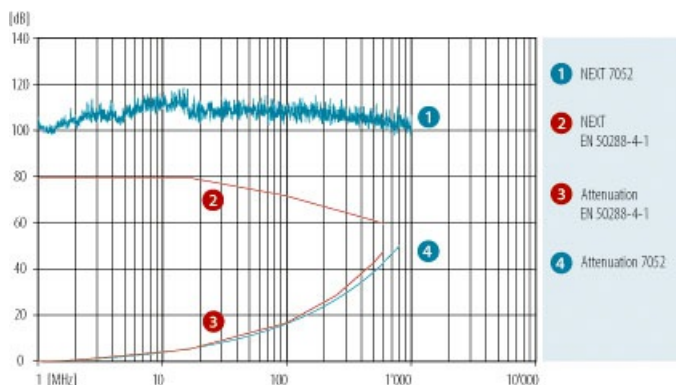
These performance data are typical measured values.

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### ELECTRICAL PROPERTIES



|                                                                     |             |
|---------------------------------------------------------------------|-------------|
| Loop resistance at 20° C:                                           | 140 Ω/km    |
| Mutual capacitance:                                                 | 42 pF/m     |
| Impedance at 100 MHz:                                               | 100 Ω ±5 Ω  |
| Coupling attenuation<br>(limit curve of critical state -IEC 61156): | > 85 dB     |
| Near end unbalance attenuation LCL at 1-600 MHz :                   | > 40 dB     |
| Delay Skew:                                                         | 12 ns/100 m |
| NVP:                                                                | 81 %        |

### MECHANICAL PROPERTIES

|                            |                        | CU 7052 4P        | CU 7052 2x4P F8 |
|----------------------------|------------------------|-------------------|-----------------|
| Bending radius (flat side) | during draw-in:        | ≥ 60 mm           | ≥ 60 mm         |
|                            | permanently installed: | ≥ 30 mm           | ≥ 30 mm         |
| Tensile strength:          |                        | ≤ 110 N           | ≤ 220 N         |
| Crush resistance:          |                        | ≥ 1000 N/10 cm    |                 |
| Impact:                    |                        | ≥ 10 impacts      |                 |
| Temperature range          | during installation:   | 0° C to + 50° C   |                 |
|                            | in operation:          | -20° C to + 60° C |                 |

### STANDARDS

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| Wire colour                      | white/blue white/orange white/green white/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                    |
| Reaction to fire (Euroclasses)   | EN 13501-6: D <sub>ca</sub> -s2,d1,a1                                                      |
| PoE                              | IEEE 802.3at                                                                               |
| 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         | Sheath    | Sheath Ø [mm] | Sheath colour | Weight [kg/km] | Cu rate [kg/km] | Fire load [MJ/m] | Fire load [kWh/m] | Dimensions<br>n x p x [mm (AWG)] | PU          |
|-------------|-----|-----------------|-----------|---------------|---------------|----------------|-----------------|------------------|-------------------|----------------------------------|-------------|
| 188514      |     | CU 7052 4P      | FRNC/LS0H | 7.3           | orange        | 52             | 21.3            | 0.58             | 0.16              | 4 x 2 x 0.57 (AWG23)             | 1000 m drum |
| 18851400DK  |     | CU 7052 4P      | FRNC/LS0H | 7.3           | orange        | 52             | 21.3            | 0.58             | 0.16              | 4 x 2 x 0.57 (AWG23)             | 1000 m drum |
| 18851400DL  |     | CU 7052 4P      | FRNC/LS0H | 7.3           | orange        | 52             | 21.3            | 0.58             | 0.16              | 4 x 2 x 0.57 (AWG23)             | 500 m drum  |
| 188515      |     | CU 7052 2x4P F8 | FRNC/LS0H | 7.3 x 15.4    | orange        | 104            | 42.6            | 1.16             | 0.32              | 2x (4 x 2 x 0.57 AWG23)          | 500 m drum  |
| 18851500DL  |     | CU 7052 2x4P F8 | FRNC/LS0H | 7.3 x 15.4    | orange        | 104            | 42.6            | 1.16             | 0.32              | 2x (4 x 2 x 0.57 AWG23)          | 500 m drum  |