

# CU 662 4P Dca

Data cable, U/UTP, Category 6, AWG23, Euroclass Dca



- 1 Inner conductor: AWG23/0,55 mm Bare Copper wire
- 2 PE insulated conductor: 0.98 mm Ø PE
- 3 Pair separator
- 4 Outer sheath: FRNC/LSoH orange RAL 2003



## DESCRIPTION

Electrically and mechanically advanced quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801-1, IEC 61156-5, EN 50173-1 and EN 50288-6-1. Robust cable design with reliable electrical performance thanks to stabilising element. Very good NEXT reserve due to cable construction with a pair separator (cross). Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801-1.

## 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 E applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801. Applicable for Power over Ethernet (PoE) / PoE+.

## ELECTRICAL CHARACTERISTICS

| Category              | 1   | 4   | 10  | 5e   | 6   | 300 |
|-----------------------|-----|-----|-----|------|-----|-----|
| Frequency [MHz]       | 1   | 4   | 10  | 100  | 250 | 300 |
| Attenuation [dB/100m] | 1.8 | 3.6 | 5.6 | 18.1 | 30  | 33  |
| NEXT [dB]             | 85  | 80  | 73  | 59   | 52  | 50  |
| PS NEXT [dB]          | 82  | 77  | 70  | 56   | 49  | 47  |
| ACR-N [dB]            | 83  | 76  | 67  | 41   | 23  | 18  |
| PS-ACR-N [dB]         | 80  | 73  | 64  | 38   | 20  | 15  |
| ACR-F [dB]            | 86  | 78  | 67  | 47   | 37  | 33  |
| PS-ACR-F [dB]         | 83  | 75  | 64  | 45   | 34  | 30  |
| Return loss [dB]      | 27  | 32  | 32  | 30   | 28  | 25  |

These performance data are typical measured values.

## ELECTRICAL PROPERTIES

|                           |                    |
|---------------------------|--------------------|
| Loop resistance at 20° C: | 155 Ω/km           |
| Mutual capacitance:       | 50 pF/m            |
| Impedance at 100 MHz:     | 100 Ω ±5 Ω         |
| TCL:                      | ≥ 50 db - 10 x lgf |
| Delay Skew:               | 20 ns/100 m        |
| NVP:                      | 67 %               |

## SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, Fieldbus

## MECHANICAL PROPERTIES

|                   |                        |                   |
|-------------------|------------------------|-------------------|
| Bending radius    | during draw-in:        | ≥ 45 mm           |
|                   | permanently installed: | ≥ 22,5 mm         |
| Tensile strength: |                        | ≤ 91 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

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|                                  |  |
|----------------------------------|--|
| Reaction to fire (Euroclasses)   | EN 13501-6:Dca-s2,d1,a1  |
| Wire colour                      | white - blue/bluewhite - orange/orangewhite - green/greenwhite - brown/brownin accordance with IEC 60189 and IEC 60708 (ring marked) |
| 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  |
| Oil resistance                   | 09_Oil-.jpg  |
| Segregation class                | b  |
| Cat./Class                       | Cat 6 / Class E - limit values as specified by IEC 61156-5 and EN 50288-6-1 guaranteed   |

### VERSIONS

| Article No. | DoP | Product   | Reaction to fire (Euroclasses) | Dimensions n x p x [mm (AWG)] | Sheath    | Sheath colour | Sheath Ø [mm] | Weight [kg/km] | Cu rate [kg/km] | Fire load [MJ/m] | Fire load [kWh/m] | PU                |
|-------------|-----|-----------|--------------------------------|-------------------------------|-----------|---------------|---------------|----------------|-----------------|------------------|-------------------|-------------------|
| 24014100DS  |     | CU 662 4P | Dca-s2,d1,a1                   | 4 x 2 x 0.55 (AWG23)          | FRNC/LS0H | orange        | 6.2           | 49             | 19.4            | 0.60 MJ/m        | 0.17              | 305 m reel in box |