

CU 6552 4P / 2x4P F8

Data cable, F/FTP, Category 6_A, AWG 23, Euroclass B2_{ca}



- 1 Inner conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.3 mm Ø
- 3 Screen (pair): Alu PETP foil
- 4 Drain wire: Tinned copper wire
- 5 Overall screen: Alu PETP foil
- 6 Outer sheath: FRNC/LS0H orange RAL 2003



DESCRIPTION

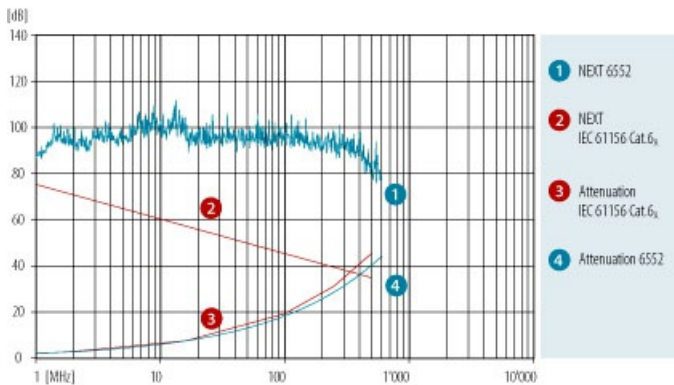
Electrically and mechanically improved quality Cat.6_A data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and prEN 50288-10-1.

Excellent shielding effect due to individually screened pairs and overall 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 E_A applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable for Power over Ethernet (PoE) / PoE+.

GRAPH



ELECTRICAL CHARACTERISTICS

| Category | 1 | 4 | 10 | 5e | 6 | 6 _A |
|-----------------------|-----|-----|-----|-----|-----|----------------|
| Frequency [MHz] | 1 | 4 | 10 | 100 | 250 | 500 |
| Attenuation [dB/100m] | 2.1 | 3.8 | 5.9 | 19 | 30 | 43 |
| NEXT [dB] | 93 | 93 | 93 | 93 | 83 | 75 |
| PS NEXT [dB] | 90 | 90 | 90 | 90 | 80 | 72 |
| ACR-N [dB] | 91 | 89 | 87 | 73 | 53 | 32 |
| PS-ACR-N [dB] | 88 | 86 | 84 | 70 | 50 | 29 |
| ACR-F [dB] | 96 | 96 | 96 | 74 | 56 | 33 |
| PS-ACR-F [dB] | 93 | 93 | 93 | 71 | 53 | 30 |
| Return loss [dB] | 26 | 28 | 30 | 30 | 27 | 21 |

These performance data are typical measured values.

ELECTRICAL PROPERTIES

| | |
|--|-------------------|
| Loop resistance at 20° C: | 150 Ω/km |
| Mutual capacitance: | 42 pF/m |
| Impedance at 100 MHz: | 100 Ω ±5 Ω |
| Transfer impedance at 1/10/30 MHz: | < 50/100/200 mΩ/m |
| Coupling attenuation (limit curve of critical state - IEC 61156): | > 70 dB |
| Near end unbalance attenuation LCL at 1/10/100 MHz: | > 40 dB |
| Delay Skew: | 5 ns/100 m |
| NVP: | 79 % |



MECHANICAL PROPERTIES

| | | CU 6552 4P | CU 6552 2x4P F8 |
|-------------------------------|------------------------|-------------------|------------------------|
| Bending radius (flat side) | during draw-in: | ≥ 56 mm | ≥ 56 mm |
| | permanently installed: | ≥ 28 mm | ≥ 28 mm |
| Tensile strength: | | ≤ 95 N | ≤ 190 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/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 |
| Reaction to fire (Euroclasses) | EN 13501-6: B2_{ca}-s1,d1,a1 |
| PoE | IEEE 802.3af |
| EMC | shielded |
| Segregation class | c |
| Cat./Class | Cat 6 _A / Class E _A - limit values as specified by IEC 61156-5 and EN 50288-10-1 guaranteed |

VERSIONS

| Article No. | DoP | Product | 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 |
|-------------|---|--------------------|----------------------------------|-----------|------------------|------------------|-------------------|--------------------|---------------------|----------------------|----------------|
| 19145400BK |  | CU 6552 4P | 4 x 2 x 0.55 (AWG23) | FRNC/LS0H | orange | 7.0 | 48.5 | 20.0 | 0.52 | 0.14 | 1000 m drum |
| 19145600BL |  | CU 6552 2x4P F8 | 2x (4 x 2 x 0.55 AWG23) | FRNC/LS0H | orange | 7.0 x 14.3 | 97.0 | 40.0 | 1.04 | 0.28 | 500 m drum |