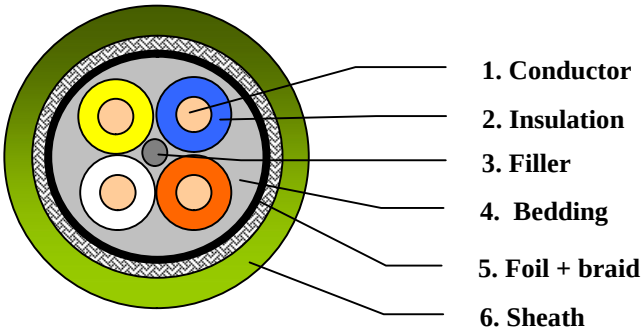
## CONSTRUCTION




| | | |
|---|---|---|
| **1.** | **Conductor** | 0.65 mm (22AWG) bare copper wire |
| **2.** | **Insulation** | |
| | Material | PE |
| | Diameter over insulation | 1.50 ± 0.05 mm |
| | Colour of insulation | White,Blue and Yellow,Orange |
| **3.** | **Filler** | |
| **4.** | **Bedding** | |
| | **Material** | FRNC |
| | **Nom. Diameter** | 3.90 mm |
| **5.** | **Foil + Braid** | |
| | Material | Aluminium / Polyester |
| | Thickness of Aluminium | 50 µm |
| | Coverage of braided screen | > 85% |
| **6.** | **Sheath** | |
| | Material | FRNC UV and oilresistant |
| | Colour | Green RAL 6018 |
| | Diameter over jacket | 6.50 +/- 0.2 mm |
| | Colour | green RAL 6018 |

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## REQUIREMENTS AND TEST METHODS

**Electrical:**

ISO/IEC 11801 ed. 2.0, Cat.5.

| | |
|---|---|
| Max. operating voltage | 300 V rms |
| Maximum conductor DC-resistance @ 20˚C | 57.1 Ω/km |
| Transfer impedance @ 10MHz | < 10 mOhm/m |
| Nom. velocity of propagation | 68 % |
| Delay | < 5.3 ns/m |
| Impedance @ 1 – 100 MHz | 100 +/- 15 Ω |

| Frequency (MHz) | Nom. Attenuation (dB/100m) | Min. Next (dB) | Min. ELFEXT (dB/100m) | Min. SRL (dB) |
|---|---|---|---|---|
| 1 | 2.1 | 65.3 | 64 | - |
| 4 | 4.1 | 56.3 | 52 | 23 |
| 10 | 6.5 | 50.3 | 44 | 25 |
| 16 | 8.3 | 47.2 | 40 | 25 |
| 31.25 | 11.7 | 42.9 | 34 | 23.6 |
| 62.5 | 17 | 38.4 | 28 | 21.5 |
| 100 | 22 | 35.3 | 24 | 20.1 |

**Mechanical and physical:**

| | |
|---|---|
| Flame resistance | IEC 60332-1 |
| Oil resistance | VDE 60811-2-1 |
| Temperature range installing | - 5 to +50 ˚C |
| Temperature range operating | - 40 to +70 ˚C |
| Temperature range storage | -40 to +70 ˚C |

Belden CDT believes this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.


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