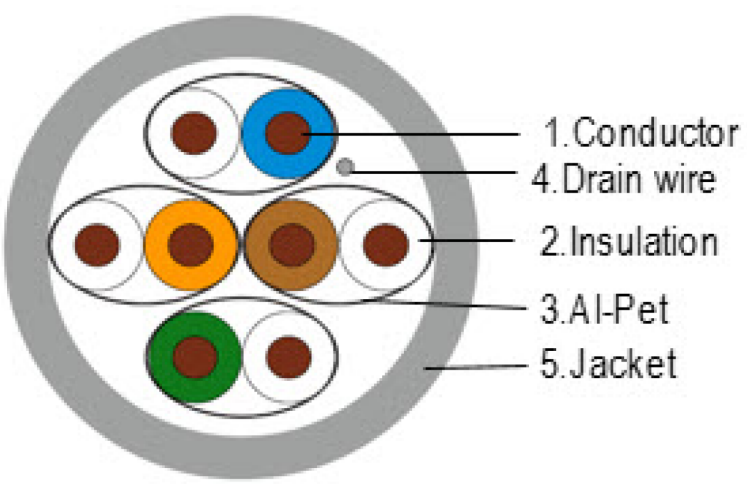
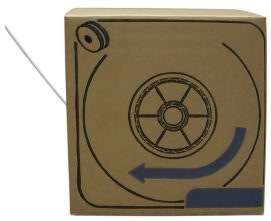
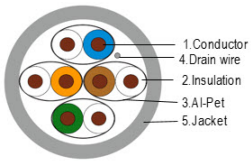
# DATASHEET

## INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 500m Drum, white








### General data

The INFRALAN U/FTP Cat.6A 500MHz installation cable in white is designed for high-performance network installations. The U/FTP structure with LSZH jacket and RAL 9003 supports stable transmissions up to 500 MHz and is therefore suitable for structured cabling with high bandwidth.

• Cat.6A according to IEC with 500 MHz – Supports IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance networks.
• U/FTP design with pairwise shielding – Reduces interference at the line level and supports clean signal routing.
• LSZH jacket in white with RAL 9003 and Euroclass Dca – Is halogen-free according to EN 60754, complies with RoHS 2011/65/UE and complements installations with a contemporary choice of materials.

The cable is designed as a simplex and uses 23/1 conductors with 8 wires. The dynamic bending radius of 57.6 mm facilitates installation. The U/FTP shielding supports decoupling from external influences and the design is intended for PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt. The version without reinforcement is aimed at laying in structured network environments.

Technical details
• Brand: INFRALAN
• Category: 6A (IEC)

**This datasheet was created automatically on 20-11-2026 . Technical changes reserved.**

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## INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 500m Drum, white

- Transmission standards: IEEE 802.3 10Mbit to 10Gbit
- Max. frequency: 500 MHz
- Cable construction: U/FTP
- PoE: after IEEE802.3af PoE, after IEEE802.3at PoE+, after IEEE802.3bt 4PPoE
- AWG cross-section/number of wires: 23/1
- Number of cores: 8
- Type: simplex
- Sheath material: LSZH
- Sheath colour: white
- RAL colour: RAL 9003
- Armour: without
- Bend radius (dynamic): 57.6 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: Dca
- Halogen-free: according to EN 60754
- Shield over stranding: without

| Technical properties | |
|---|---|
| AWG-size | 23/1 |
| Armour | none |
| Bending radius (dynamic) | 57.6 mm |
| Cable | IEC 61156-6 |
| Cable silicone free | True |
| Cable structure | U/FTP |
| Cable type | EFB Cat.6A U/FTP 500 AWG23 Dca |
| Cabling standards | ISO/IEC 11801 |
| Category | 6A (IEC) |
| Characteristic impedance | 100 ± 5 Ohm |
| Conductor category | Class 1 = solid |
| Conductor material | Copper, bare |
| Core identification | Colour |
| Core insulation | Cell-PE |
| Coupling attenuation | ≥ 50 dB |
| Diameter conductor | 0.55 mm |
| Directive/Regulation | RoHS 2011/65/UE |
| Euro class | Dca |
| Flame retardant | acc. to EN 60332-1 |
| Halogen free | acc. to EN 60754 |
| Harmonised Standard | EN 50575 |

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| | |
|---|---|
| Installation standard | EN 50174 |
| Insulation resistance (500V) | ≥ 2000 MOhm/km |
| Loop resistance | 196.8 Ohm/km |
| Low smoke | acc. to EN 61034 |
| Material outer sheath | LSZH |
| Max. Freuqency | MHz MHz |
| NVP value | 74 % |
| Nominal cross section conductor | 0.26 mm² |
| Operating capacity | 43 pF/km |
| Operating temperature, fix | -20 – 75 °C |
| Operating temperature, flexible | 0 – 50 °C |
| Operating temperature, storage | -20 – 60 °C |
| PoE | acc. to IEEE802.3af PoE |
| Resistance unbalance | < 3 % |
| Screen over stranding | None |
| Screen over stranding element | Foil |
| Separation class acc. EN50174-2 | C |
| Stranding element | Pairs |
| Test voltage DC, 1 min | 1000 V |
| Transmission standards | IEEE 802.3 10Mbit bis 10Gbit |
| UV resistant | no |

### Available variants

| ArtNr. | Bezeichnung | Colour outer sheath | Length | Number of cores | RAL colour | Type | Copper weight | Weight | Max. tractive force | Outer diameter approx. | Fire load |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 99978.305-CPR | INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 305m Box, white | white | 305.0 m | 8 | RAL 9003 | simplex | 20 kg/km | 50 kg/km | 100 N | 7.2 mm | 732 MJ/km |
| 99978.500-CPR | INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 500m Drum, white | white | 500.0 m | 8 | RAL 9003 | simplex | 20 kg/km | 50 kg/km | 100 N | 7.2 mm | 732 MJ/km |

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**Note on Intended Use**

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.



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