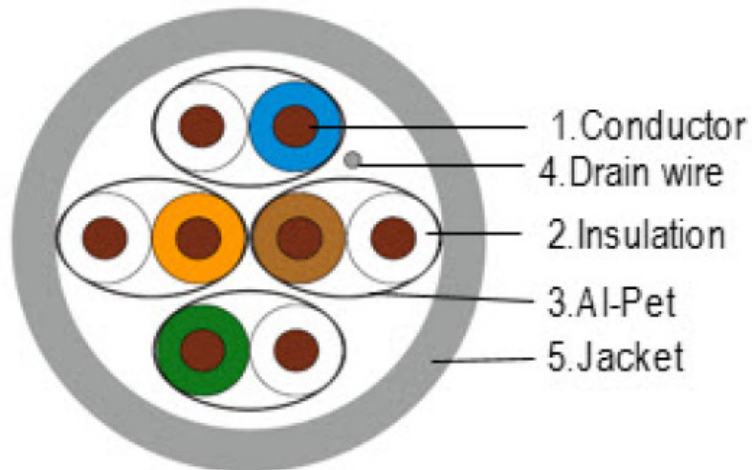
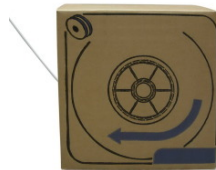


DATASHEET

INFRALAN® Installation Cable U/FTP Cat.6A 500MHz



Cat.6A



Description

INFRALAN® U/FTP Cat.6A Installation Cable

Mechanical characteristics

| | |
|--------------------------|---------|
| Bending radius (dynamic) | 57.6 mm |
| Bending radius (static) | 28.8 mm |

Cable construction

| | |
|---------------------------------|----------------------|
| Cable structure | U/FTP |
| Category | 6A (IEC) |
| Conductor category | K1.1 = single wire |
| Conductor material | Cu, blank |
| AWG-size/quantity of cores | 23/1 |
| Diameter conductor | 0.55 mm |
| Nominal cross section conductor | 0.26 mm ² |
| Screen over stranding | without |
| Stranding element | pairs |
| Screen over stranding element | foil |
| Core insulation | cellular PE |
| Core identification | Colour |

DATASHEET

INFRALAN® Installation Cable U/FTP Cat.6A 500MHz

Cable sheath

| | |
|-----------------------|-----------------|
| Material outer sheath | LSZH |
| Euro class | Dca |
| Flame retardant | acc. EN 60332-1 |
| Halogen free | acc. EN 60754 |
| Low smoke | acc. EN 61034 |

Environmental conditions

| | |
|---------------------------------|-------------|
| Operating temperature, flexible | 0 – 50 °C |
| Operating temperature, fix | -20 – 75 °C |

Electrical characteristics

| | |
|---------------------------------|--------------|
| NVP value | 74 % |
| Loop resistance | <88.4 Ohm/km |
| Impedance | 100 ± 25 Ohm |
| Separation class acc. EN50174-2 | C |
| Max. Frequency | 500 MHz |

Standards, approvals, certifications

| | |
|------------------------|---|
| Cabling standards | EN 50173;ISO/IEC 11801;ANSI/TIA 568-C.2 |
| Installation standard | EN 50174 |
| Harmonised Standard | EN 50575 |
| Directive/Regulation | RoHS 2011/65/UE;REACH 1907/2006/EC |
| Transmission standards | IEEE 802.3 10Mbit to 10Gbit |
| Cable | IEC 61156-5 |

Available variants

| Article no. | Title | Length | Colour outer sheath | RAL colour | Number of cores | Type | Outer diameter approx. | Weight | Max. tractive force |
|---------------|---|---------|---------------------|-------------|-----------------|---------|------------------------|-------------|---------------------|
| 99978.305-CPR | INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 305m Box | 305.0 m | white | RAL 9003 | 8 | simplex | 7.2 mm | 50 kg/km | 100 N |
| Article no. | Title | Length | Colour outer sheath | RAL colour | Number of cores | Type | Outer diameter approx. | Weight | Max. tractive force |

DATASHEET

INFRALAN® Installation Cable U/FTP Cat.6A 500MHz

| | | | | | | | | | |
|---------------|--|---------|-------|-------------|---|---------|--------|-------------|-------|
| 99978.500-CPR | INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 500m Drum | 500.0 m | white | RAL 9003 | 8 | simplex | 7.2 mm | 50 kg/km | 100 N |
|---------------|--|---------|-------|-------------|---|---------|--------|-------------|-------|

DATASHEET

INFRALAN® Installation Cable U/FTP Cat.6A 500MHz

Technical drawings

Electrical Characteristics

Performance

| Frequency (MHz) | Attenuation (dB/100m) | Next (dB) | PS NEXT (dB) | RL (dB) |
|--------------------|--------------------------|------------------|-----------------|------------|
| 4,00 | 3,80 | 66,30 | 63,30 | 23,00 |
| 10,00 | 5,90 | 60,30 | 57,30 | 25,00 |
| 16,00 | 7,50 | 57,20 | 54,20 | 25,00 |
| 31,25 | 10,50 | 52,90 | 49,90 | 23,60 |
| 62,50 | 15,00 | 48,40 | 45,40 | 21,50 |
| 100,00 | 19,10 | 45,30 | 42,30 | 20,10 |
| 250,00 | 31,10 | 39,30 | 36,30 | 17,30 |
| 500,00 | 45,30 | 34,80 | 31,80 | 17,30 |
| Frequency (MHz) | ELFEXT (dB) | PEELFEXT (dB) | | |
| 4,00 | 56,00 | 53,00 | | |
| 10,00 | 48,00 | 45,00 | | |
| 16,00 | 43,90 | 40,90 | | |
| 31,25 | 38,10 | 35,10 | | |
| 62,50 | 32,10 | 29,10 | | |
| 100,00 | 28,00 | 25,00 | | |
| 250,00 | 20,00 | 17,00 | | |
| 500,00 | 14,00 | 11,00 | | |