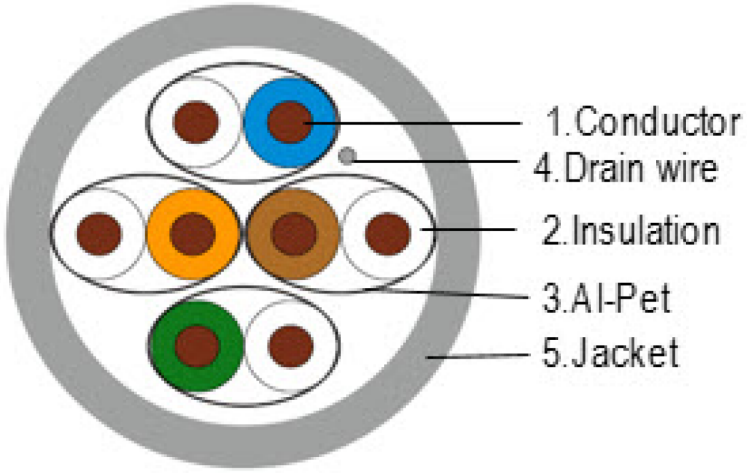
DATASHEET

INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 305m Box, white





General data

The INFRALAN U/FTP Cat.6A 500MHz installation cable in white is designed for high-performance network cabling. The U/FTP design with LSZH jacket supports stable data connections up to 500 MHz and is therefore suitable for modern installations with high bandwidth.

• 500 MHz Cat.6A bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance networks.
• U/FTP design without shielding over stranding – Reduces interference and supports stable signal quality in structured cabling.
• LSZH sheath in white according to RAL 9003 and Euroclass Dca – Complements the installation with halogen-free material properties according to EN 60754 and RoHS 2011/65/UE.

The cable is designed as a simplex and uses 23/1 conductors with 8 wires. The dynamic bending radius of 57.6 mm makes installation easier. The version without reinforcement is aimed at installation in structured network environments. The design is intended for PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt.

Technical details
• Brand: INFRALAN

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EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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- Category: 6A (IEC)
- 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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