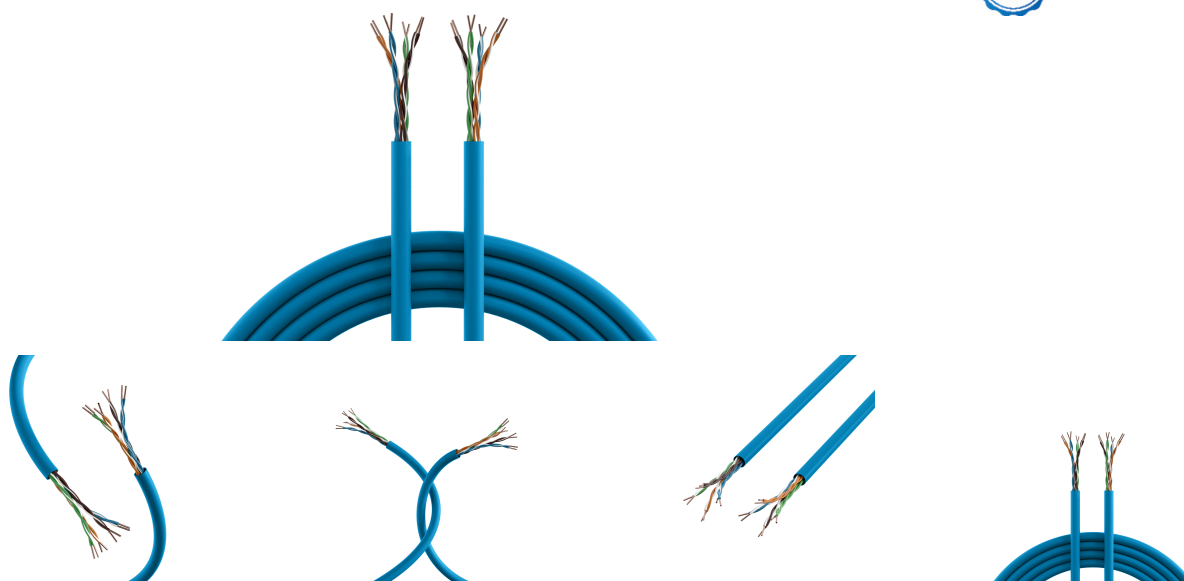


# DATASHEET

**INFRALAN® Cat.6A 500 AWG23, U/UTP 4P CPR B2ca, RAL5015 blue, 305m**



## General data

The INFRALAN® U/UTP Cat.6A installation cable is designed for transmissions up to 500MHz and complies with Cat.6A. With this cable, transmission rates of up to 10Gbit Ethernet are possible. Due to the small outer diameter of only 6.6 mm, the cable is also suitable for feed-throughs in narrow cable ducts. Thanks to the B2ca standard according to the Construction Products Regulation and its cable structure of 4x2xAWG23/1, the cable can be used in all areas of installation in buildings.

Areas of application:

- Primary (Campus)
- Secondary (Riser)
- Tertiary (Horizontal)

## Allgemeine Daten

AWG-size	23/1
Jacket material	LSZH
UV resistance	no
Nominal cross section conductor	0.26 mm <sup>2</sup>
Core identification	Colour

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General data	
(Halogenfree)	acc. EN 60754-1/2
Conductor category	Class 1 = solid
Stranding element	Pairs
Category	6A (IEC)
Permitted cable outer temperature after assembling without vibration	-15 - 75 °C
Cable silicone free	True
Permitted cable outer temperature during assembling/handling	0 - 60 °C

Mechanical characteristics	
Bending radius (dynamic)	65 mm
Bending radius (static)	65 mm

### Cable construction

Diameter conductor	0.57 mm
Conductor material	Cu, tinned
Cable Construction	U/UTP

### Cable sheath

Flame-retardant	According to IEC/EN 60332-1-2
Low smoke	acc. EN 61034
Euro class	B2ca

Environmental conditions	
Operating temperature, storage	-15 - 75 °C

Electrical characteristics	
Coupling attenuation	≥ 50 dB
Loop resistance	164 Ohm/km
NVP value	68.2 %
Characteristic impedance	100 ± 15
Resistance unbalance	≤ 5 %
Capacity to earth	330 pF/km

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Insulation resistance (500V)	≥ 5000 MOhm/km
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### Elektrische Eigenschaften

Max. Frequency	500 MHz
Screen over stranding	without
PoE	acc. to IEEE802.3bt 4PPoE
Core insulation	foam-skin PE
Separation class acc. EN50174-2	C
Test voltage DC, 1 min	500 V
Screen over stranding element	without

### Normen, Zulassungen, Zertifizierungen

Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Cable	IEC 61156-5

### Standards, approvals, certifications

Cabling standards	ISO/IEC 11801
Installation standard	EN 50174
Harmonised Standard	EN 50575
Directive/Regulation	RoHS 2011/65/UE

### Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	RAL colour	Type	Gewicht	Max. Zugkraft ca.	Außendurchmesser	Brandlast
99965.305-CPR	INFRALAN® Cat.6A 500 AWG23, U/UTP 4P CPR B2ca, RAL5015 blue, 305m	blue	305.0 m	8	RAL5015	simplex	50 kg/km	110 N	6,6 mm	0,7812 MJ/m
99965.500-CPR	INFRALAN® Cat.6A 500 AWG23, U/UTP 4P CPR B2ca, RAL5015 blue, 305m	blue	500.0 m	8	RAL5015	simplex	50 kg/km	110 N	6,6 mm	0,7812 MJ/m

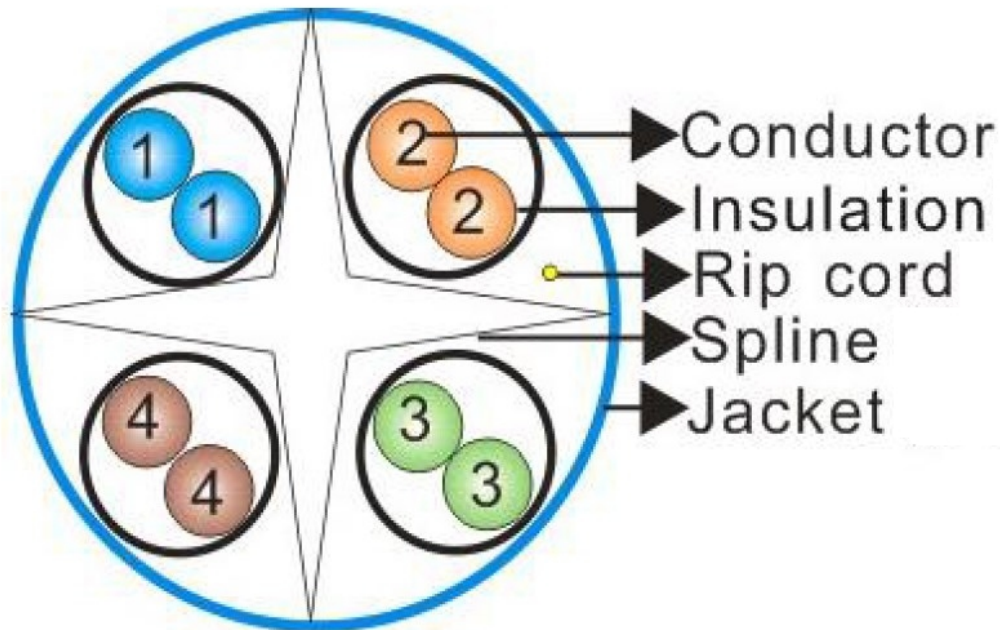
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# DATASHEET

INFRALAN® Cat.6A 500 AWG23, U/UTP 4P CPR B2ca,  
RAL5015 blue, 305m

## Drawings



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