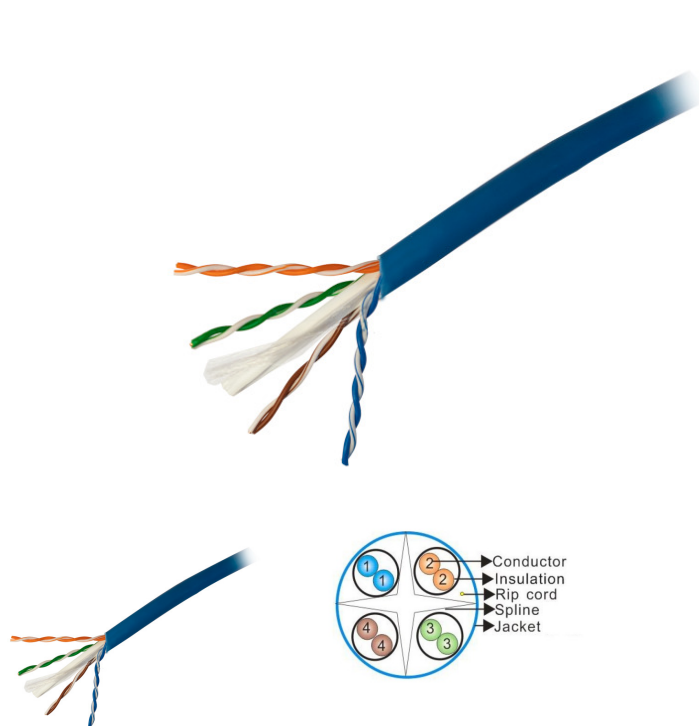


DATASHEET

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

Halogen free	acc. EN 60754-1/2
Conductor category	Class 1 = solid
Material outer sheath	LSZH
UV resistance	no
Nominal cross section conductor	0.26 mm ²
Stranding element	Pairs

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DATASHEET

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

Category	6A (IEC)
Core identification	Colour
Cable silicone free	True

Mechanische Eigenschaften

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

Kabelaufbau

AWG-size	23/1
Diameter conductor	0.57 mm
Conductor material	Cu, tinned
Cable Construction	U/UTP

Kabelmantel

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

Umgebungsbedingungen

Operating temperature, storage	-15 - 75 °C
Permitted cable outer temperature after assembling without vibration	-15 - 75 °C
Permitted cable outer temperature during assembling/handling	0 - 60 °C

Elektrische Eigenschaften

Coupling attenuation	≥ 50 dB
Loop resistance	164 Ohm/km
NVP value	68.2 %
Max. Frequency	500 MHz
Characteristic impedance	100 ± 15
Screen over stranding	without
PoE	yes
Core insulation	foam-skin PE

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Separation class acc. EN50174-2	C
Resistance unbalance	≤ 5 %
Capacity to earth	330 pF/km
Test voltage DC, 1 min	500 V
Screen over stranding element	without
Insulation resistance (500V)	≥ 5000 MOhm/km

Normen, Zulassungen, Zertifizierungen

Cabling standards	ISO/IEC 11801
Installation standard	EN 50174
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Harmonised Standard	EN 50575
Cable	IEC 61156-5
Directive/Regulation	RoHS 2011/65/UE

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length of cores	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

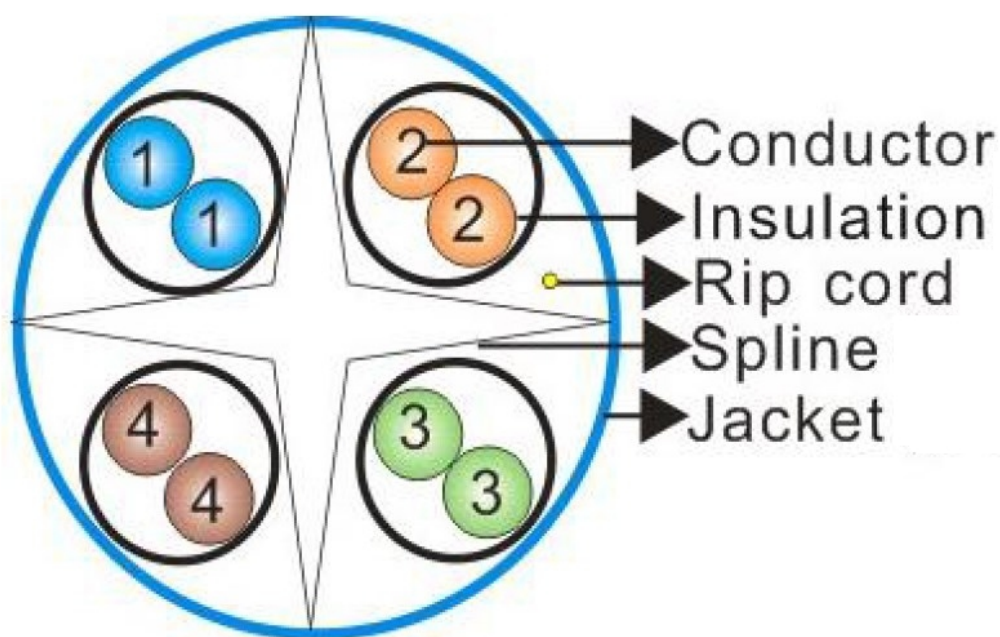
Drawings

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DATASHEET

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



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