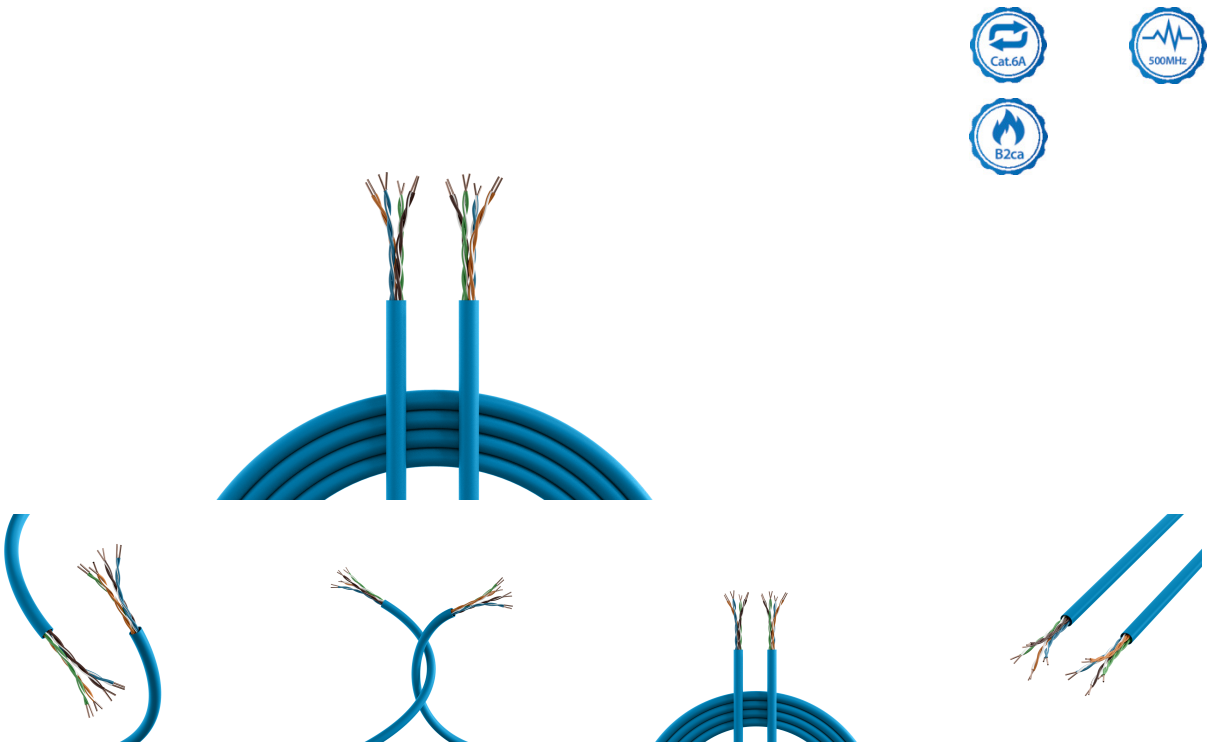
DATASHEET

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



General data

The INFRALAN Cat.6A LAN cable in blue is designed for high-performance network cabling. The U/UTP structure with LSZH jacket supports stable data connections up to 500 MHz and is therefore suitable for modern installations with high bandwidth. The blue version in RAL 5015 complements the installation with a clearly defined marking.

• 500 MHz Cat.6A (IEC) – Supports IEEE 802.3 from 10Mbit to 10Gbit and creates scope for high-performance networks.
• U/UTP construction without shielding over stranding – Relies on an unshielded construction for structured cabling.
• LSZH sheath in blue according to RAL 5015 and Euroclass B2ca – Combines halogen-free material properties according to EN 60754-1/2 with a contemporary CPR classification.

In the technical design, the cable uses 23/1 conductors with 8 wires in simplex design. The dynamic bending radius of 30 mm facilitates installation in narrow routes. The unshielded construction is intended for PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt. The structure does not require reinforcement and complies with RoHS 2011/65/UE.

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

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

- Transmission standards: IEEE 802.3 10Mbit to 10Gbit
- Max. frequency: 500 MHz
- Cable construction: U/UTP
- 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: blue
- RAL colour: RAL 5015
- Armour: without
- Bend radius (dynamic): 30 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: B2ca
- Halogen-free: according to EN 60754-1/2
- Shield over stranding: without

Technical properties	
AWG-size	23/1
Armour	none
Bending radius (dynamic)	30 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	U/UTP
Cable type	EFB Cat.6A U/UTP 500 AWG23 B2ca
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	Foam-Skin-PE
Coupling attenuation	≥ 50 dB
Diameter conductor	0.55 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	B2ca
Flame retardant	acc. to IEC/EN 60332-1
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575

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

Installation standard	EN 50174
Insulation resistance (500V)	≥ 2000 MOhm/km
Loop resistance	196 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	LSZH
Max. Freuqency	MHz MHz
NVP value	69 %
Nominal cross section conductor	0.26 mm²
Operating capacity	43 pF/km
Operating temperature, fix	-20 – 60 °C
Operating temperature, flexible	0 – 50 °C
Operating temperature, storage	-20 – 60 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	5 %
Screen over stranding	None
Screen over stranding element	without
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
99960.500-CPR	INFRALAN® Cat.6A 500 AWG23 U/UTP 4P CPR, B2ca, RAL5015 blue 500m	blue	500 m	8	RAL 5015	simplex	20 kg/km	44 kg/km	100 N	6.6 mm	781 MJ/km

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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