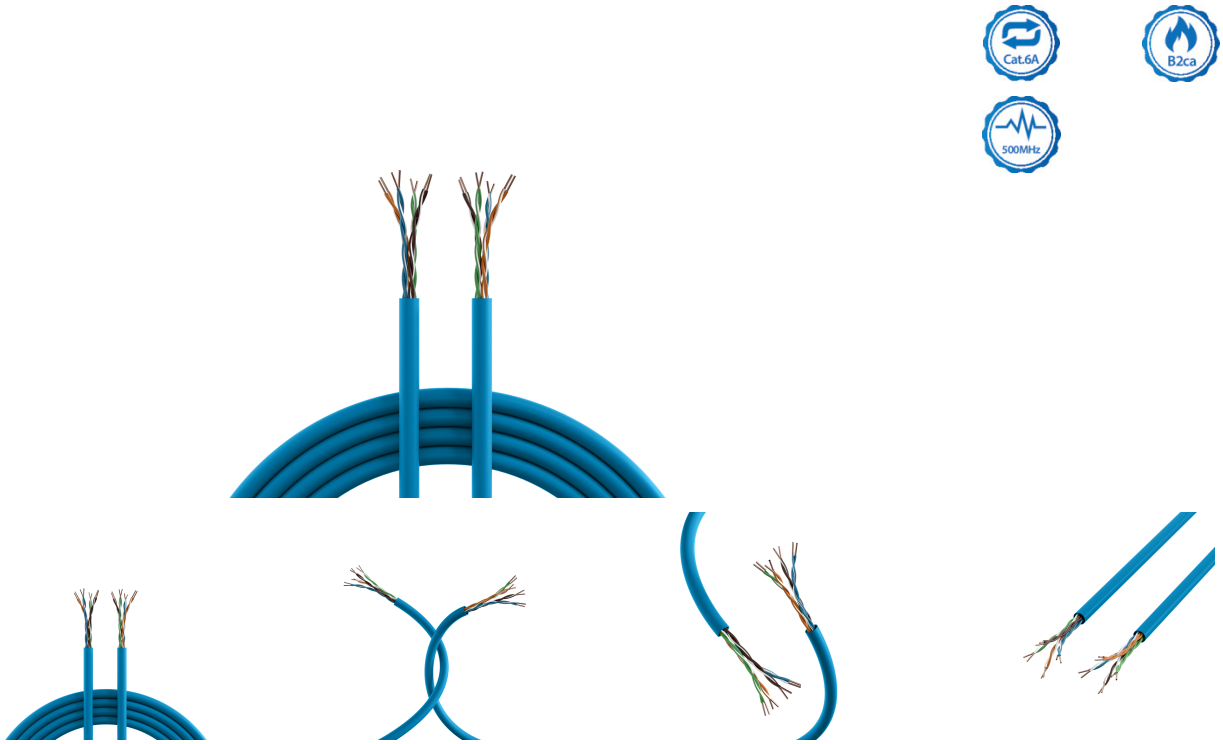
DATASHEET

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)

Technical properties	
AWG-size	23/1
Armour	none
Bending radius (dynamic)	65 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	U/UTP

This datasheet was created automatically on 15-10-2026 . Technical changes reserved.

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

DATASHEET

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

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	0.57 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
Installation standard	EN 50174
Insulation resistance (500V)	≥ 5000 MOhm/km
Loop resistance	164 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	LSZH
Max. Freuqency	MHz MHz
NVP value	68.2 %
Nominal cross section conductor	0.26 mm²
Operating capacity	43 pF/km
Operating temperature, fix	-15 – 75 °C
Operating temperature, flexible	60 – °C
Operating temperature, storage	-15 – 75 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	5 %
Screen over stranding	None
Screen over stranding element	None
Separation class acc. EN50174-2	C
Stranding element	Pairs
Test voltage DC, 1 min	500 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	no

This datasheet was created automatically on 15-10-2026 . Technical changes reserved.

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

DATASHEET

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

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
99960.305-CPR	INFRALAN® Cat.6A 500 AWG23 U/UTP 4P CPR, B2ca, RAL5015 blue 305m	blue	305 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.

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