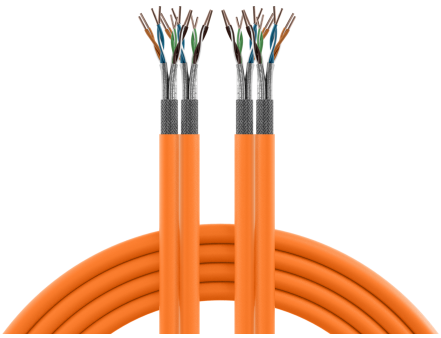
DATASHEET

INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 500m



General data

The INFRALAN® installation cable 99980.x-CPR is constructed for transmissions up to **1000 MHz** and exceeds the requirements of the category 7 with the electrical transmission properties. With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible.

Technical properties

AWG-size	23/1
Armour	none
Bending radius (dynamic)	40 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	EFB Cat.7 S/FTP AWG23 Eca
Cabling standards	ISO/IEC 11801
Category	7
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 1 = solid

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Conductor material	Copper, bare
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	≥ 80 dB
Diameter conductor	0.56 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	Eca
Flame retardant	according to EN 60332-1
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575
Installation standard	EN 50174
Insulation resistance (500V)	≥ 2000 MOhm/km
Loop resistance	154 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	FRNC-B
Max. Freuqency	MHz MHz
NVP value	79 %
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	2 %
Screen over stranding	braiding
Screen over stranding element	Foil
Separation class acc. EN50174-2	D
Stranding element	Pairs
Test voltage DC, 1 min	1000 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	no

Available variants

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ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	RAL colour	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.	Fire load
99980.1-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange	orange	1.0 m	8	RAL 2003	simplex	26 kg/km	54.5 kg/km	110 N	7.3 mm	590 MJ/km
99980.100-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 100m	orange	100.0 m	8	RAL 2003	simplex	26 kg/km	54.5 kg/km	110 N	7.3 mm	590 MJ/km
99980.250-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 250m	orange	250.0 m	8	RAL 2003	simplex	26 kg/km	54.5 kg/km	110 N	7.3 mm	590 MJ/km
99980.500-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 500m	orange	500.0 m	8	RAL 2003	simplex	26 kg/km	54.5 kg/km	110 N	7.3 mm	590 MJ/km
99980.60-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 60m	orange	60.0 m	8	RAL 2003	simplex	26 kg/km	54.5 kg/km	110 N	7.3 mm	590 MJ/km
99980DX.100-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 100m	orange	100.0 m	2x8	RAL 2003	duplex	52 kg/km	109.2 kg/km	220 N	7.2 x 15.0 mm	1190 MJ/km
99980DX.25-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 25m	orange	25.0 m	2x8	RAL 2003	duplex	52 kg/km	109.2 kg/km	220 N	7.2 x 15.0 mm	1190 MJ/km
99980DX.500-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 500m	orange	500.0 m	2x8	RAL 2003	duplex	52 kg/km	109.2 kg/km	220 N	7.2 x 15.0 mm	1190 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

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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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