

DATASHEET

INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange



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.

Allgemeine Daten

Halogen free	acc. EN 60754-1/2
Conductor category	Class 1 = solid
UV resistance	no
Category	7
Nominal cross section conductor	0.26 mm ²
Stranding element	Pairs
Material outer sheath	FRNC-B
Core identification	Colour

Mechanische Eigenschaften

Bending radius (dynamic)	8 x OD
Bending radius (static)	4 x OD

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Kabelaufbau

AWG-size	23/1
Conductor material	Cu, tinned
Diameter conductor	0.56 mm
Cable Construction	S/FTP

Kabelmantel

Low smoke	acc. EN 61034
Euro class	Eca
Flame retardant	acc. EN 60332-1

Umgebungsbedingungen

Permitted cable outer temperature during assembling/handling	0 - 50 °C
Permitted cable outer temperature after assembling without vibration	-20 - 60 °C

Elektrische Eigenschaften

Screen over stranding	braiding
Capacity to earth	nom. 43 nF/km
Test voltage DC, 1 min	1000 V
Core insulation	Foam-Skin-PE
Screen over stranding element	Foil
Transfer impedance at 1MHz	12 mOhm/m
Coupling attenuation Type	Type 2
Resistance unbalance	≤ 2 %
Delay skew	≤ 12 ns/100m
Characteristic impedance	100 ± 5 Ohm
Insulation resistance (500V)	≥ 2000 MOhm/km
Separation class acc. EN50174-2	D
Coupling attenuation	80 dB
PoE	yes;acc. to IEEE802.3bt 4PPoE
NVP value	79 %
Loop resistance	154 Ohm/km
Max. Frequency	1000 MHz
Transfer impedance at 10MHz	10 mOhm/m
Transfer impedance at 30MHz	30 mOhm/m

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Normen, Zulassungen, Zertifizierungen	
Cabling standards	ISO/IEC 11801;EN 50173-1;EN 50288
Installation standard	EN 50174
Low smoke (according to EN 61034-2)	False
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Halogen free (acc. EN 50267-2-2)	False
Harmonised Standard	EN 50575
Cable	IEC 61156-5;EN 50288-4-1
Halogen free (according to EN 60754-1/2)	True

Available variants											
ArtNr.	Bezeichnung	Colour outer sheath	Length of	Number of cores	RAL colour	Type	Cu-Zahl	Gewicht	Max. Zugkraft ca.	Außendurchmesser	Brandlast
99980.1-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange	orange	1.0 m	8	RAL2003	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	RAL2003	simplex	26 kg/km	54,5 kg/km	110 N	7,3 mm	590 MJ/km
99980.25-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 25m	orange	25.0 m	8	RAL2003	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	RAL2003	simplex	26 kg/km	54,5 kg/km	110 N	7,3 mm	590 MJ/km
99980.50-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 50m	orange	50.0 m	8	RAL2003	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	RAL2003	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	RAL2003	duplex	52 kg/km	109,2 kg/km	220 N	7,2 x 15,0 mm	1190 MJ/km

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99980DX.25-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 25m	orange	25.0 m	2x8	RAL2003	duplex	52 kg/km	109,2 kg/km	220 N	7,2 x 15,0 mm	1190 MJ/km
99980DX.250-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 250m	orange	250.0 m	2x8	RAL2003	duplex	52 kg/km	109,2 kg/km	220 N	7,2 x 15,0 mm	1190 MJ/km
99980DX.50-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 8P CPR Eca orange, 50m	orange	50.0 m	2x8	RAL2003	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	RAL2003	duplex	52 kg/km	109,2 kg/km	220 N	7,2 x 15,0 mm	1190 MJ/km

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