

DATASHEET

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



General data

The INFRALAN® installation cable 99981.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. Additional this Cable is certified by GHMT PVP program in simplex version.

Allgemeine Daten

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
Halogen free	acc. EN 50267-2-2
Core identification	Colour
Cable silicone free	True

Mechanische Eigenschaften

Bending radius (static)	≥ 30 mm
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Bending radius (dynamic)	≥ 60 mm
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Kabelaufbau

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

Kabelmantel

Flame retardant	According to IEC/EN 60332-3-24
Euro class	Cca
Low smoke	acc. EN 61034

Umgebungsbedingungen

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

Elektrische Eigenschaften

Screen over stranding	braiding
NVP value	78 %
Test voltage DC, 1 min	1000 V
Transfer impedance at 10MHz	≤ 10 mOhm/m
Core insulation	Foam-Skin-PE
Screen over stranding element	Foil
Transfer impedance at 1MHz	≤ 10 mOhm/m
Dielectric strength DC	1 kV/1 min
Loop resistance	≤ 146 Ohm/km
Resistance unbalance	≤ 2 %
Characteristic impedance	100 ± 5 Ohm
Separation class acc. EN50174-2	D
Delay skew	20 ns/100m
PoE	yes;acc. to IEEE802.3af PoE;acc. to IEEE802.3at PoE+
Transfer impedance at 100MHz	≤ 30 mOhm/m
Capacity to earth	≤ 1600 pF/km

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Coupling attenuation Type	Type 1b
Max. Frequency	1000 MHz
Transfer impedance at 30MHz	≤ 20 mOhm/m
Insulation resistance (500V)	≥ 5000 MOhm/km
Coupling attenuation	≥ 80 dB

Normen, Zulassungen, Zertifizierungen

Low smoke (according to EN 61034-2)	True
Installation standard	EN 50174
Cabling standards	EN 50173-1;ISO/IEC 11801
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Halogen free (acc. EN 50267-2-2)	False
Directive/Regulation	RoHS 2011/65/UE;REACH 1907/2006/EC
Harmonised Standard	EN 50575
Cable	IEC 61156-5;EN 50288-4-1
Halogen free (according to EN 60754-1/2)	False

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length of	Number of cores	RAL colour	Type	Cu-Zahl	Gewicht	Max. Zugkraft ca.	Außendurchmesser	Brandlast
99981.1-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange	orange	1.0 m	8	RAL2003	simplex	28 kg/km	58 kg/km	95 N	7,5 mm	0,57 MJ/m
99981.100-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange, 100m	orange	100.0 m	8	RAL2003	simplex	28 kg/km	58 kg/km	95 N	7,5 mm	0,57 MJ/m
99981.200-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange, 200m	orange	200.0 m	8	RAL2003	simplex	28 kg/km	58 kg/km	95 N	7,5 mm	0,57 MJ/m
99981.500-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange, 500	orange	500.0 m	8	RAL2003	simplex	28 kg/km	58 kg/km	95 N	7,5 mm	0,57 MJ/m

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99981DX.100-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 2x4P CPR Cca orange, 100m	orange	100.0 m	2x8	RAL2003	duplex	56 kg/km	116 kg/km	190 N	7,5 x 15,8 mm	1,14 MJ/m
99981DX.500-CPR	INFRALAN® Cat.7 1000 AWG23, S/FTP 2x4P CPR Cca orange, 500m	orange	500.0 m	2x8	RAL2003	duplex	56 kg/km	116 kg/km	190 N	7,5 x 15,8 mm	1,14 MJ/m

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