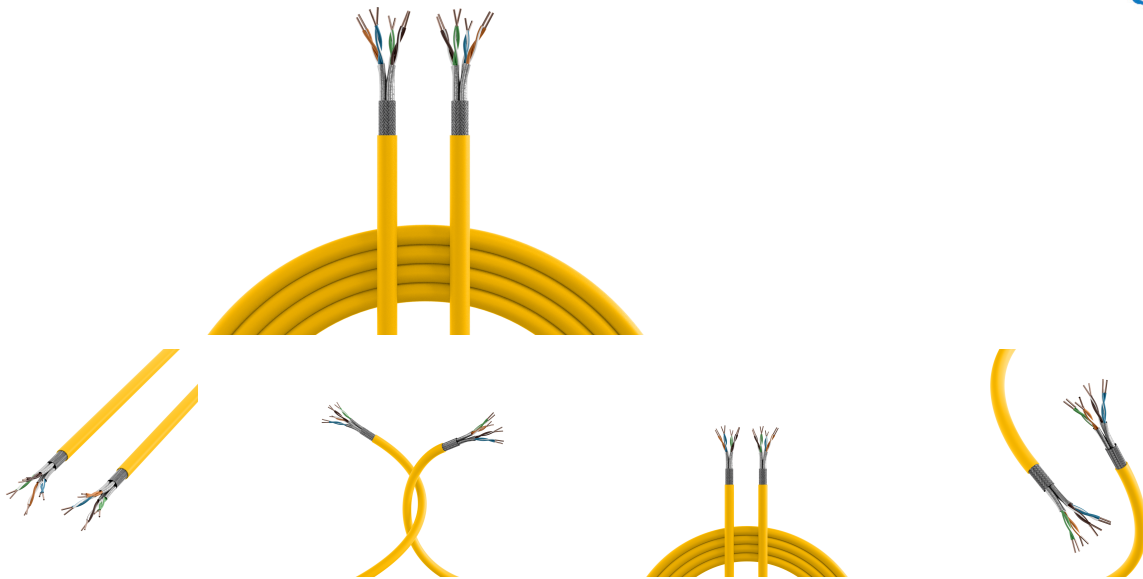


DATASHEET

INFRALAN® Cat.7A 1500 AWG22,S/FTP 4P CPR,Cca,25 GBit/s ready,rape yellow RAL1021



General data

The INFRALAN® installation cable 99983.x-CPR is constructed for transmissions up to **1500 MHz** and exceeds with the electrical transmission properties and requirements of the category 7A. Suitable for structured cabling of Class E, EA, F and FA according to ISO/IEC 11801 (AMD 2:2009) resp. EN 50173-1 (2009). The individual stranded pairs are protected with a screen foil (PiMF) and a total braided shield against radiation into the cable, as well as this excellent protection prevents the radiation of signals from the cable out. This shielding guarantees compliance with the interference emission according to Class B EN 55022, as well as immunity to interference according to EN 55024. The stranding of the individual pairs is optimized in such a way that the delay skew between the pairs (skew) with the greatest possible decoupling (crosstalk) is minimal. With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible.

Allgemeine Daten

AWG-size	22/1
UV resistance	no
Core identification	Colour

General data

Halogen free	acc. EN 60754-1/2
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Permitted cable outer temperature during assembling/handling	0 - 50 °C
Conductor category	Class 1 = solid
Stranding element	Pairs
Category	7A
Permitted cable outer temperature after assembling without vibration	-20 - 60 °C
Cable silicone free	True

Mechanical characteristics

Bending radius (dynamic)	≥ 70 mm
Bending radius (static)	≥ 35 mm

Cable construction

Cable Construction	S/FTP
Conductor material	Cu, tinned

Kabelaufbau

Diameter conductor	0.64 mm
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Cable sheath

Euro class	Cca
Flame retardant	acc. EN 60332-1
Low smoke	acc. EN 61034-2
Jacket Material	FRNC-B

Environmental conditions

Operating temperature, storage	0 - 50 °C
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Electrical characteristics

NVP value	78 %
Capacity to earth	≤ 1200 pF/km
Resistance unbalance	≤ 2 %
Transfer impedance at 1MHz	≤ 5 mOhm/m
Characteristic impedance	100 ± 5 Ohm

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INFRALAN® Cat.7A 1500 AWG22,S/FTP 4P CPR,Cca,25 GBit/s ready,rape yellow RAL1021

Separation class acc. EN50174-2	D
Loop resistance	≤ 120 Ohm/km
Transfer impedance at 10MHz	≤ 5 mOhm/m
Transfer impedance at 30MHz	≤ 5 mOhm/m
Insulation resistance (500V)	≥ 5000 MOhm/km
Transfer impedance at 100MHz	≤ 10 mOhm/m

Elektrische Eigenschaften

Screen over stranding	braiding
Test voltage DC, 1 min	1000 V
Screen over stranding element	Foil
Dielectric strength DC	1 kV/1 min
Max. Frequency	1500 MHz
Coupling attenuation	≥ 85 dB
PoE	acc. to IEEE802.3bt 4PPoE
Core insulation	foam-skin PE
Coupling attenuation Type	Type 1

Normen, Zulassungen, Zertifizierungen

Cable	EN 50288-9-1
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Standards, approvals, certifications

Low smoke (according to EN 61034-2)	True
Cabling standards	ISO/IEC 11801
Installation standard	EN 50174
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Harmonised Standard	EN 50575
Halogen free (acc. EN 50267-2-2)	True
Halogen free (according to EN 60754-1/2)	True
Directive/Regulation	RoHS 2011/65/UE

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length of cores	Number of cores	RAL colour	Type	Cu-Zahl	Gewicht	Max. Zugkraft ca.	Außendurchmesser	Brandlast
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DATASHEET

INFRALAN® Cat.7A 1500 AWG22,S/FTP 4P CPR,Cca,25 GBit/s ready,rape yellow RAL1021

999830.1-CPR	INFRALAN® Cat.7A 1500 AWG22,S/FTP 4P ,CPR Cca,25Gbit/s ready,rape yellow RAL1021	yellow	1.0 m	8	RAL1021	simplex	38 kg/km	75 kg/km	190 N	8,6 mm	0,69 MJ/m
999830.100-CPR	INFRALAN® Cat.7A 1500 AWG22,S/FTP 4P CPR,Cca,25 GBit/s ready,rape yellow RAL1021	yellow	100.0 m	8	RAL1021	simplex	38 kg/km	75 kg/km	190 N	8,6 mm	0,69 MJ/m
999830DX.500-CPR	INFRALAN® Cat.7A 1500 AWG22,S/FTP,2x4P,CPR Cca,25Gbit/s ready,rape yellow RAL1021	yellow	500.0 m	2x8	RAL1021	duplex	76 kg/km	150 kg/km	380 N	8,6x17,5 mm	1,38 MJ/m

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