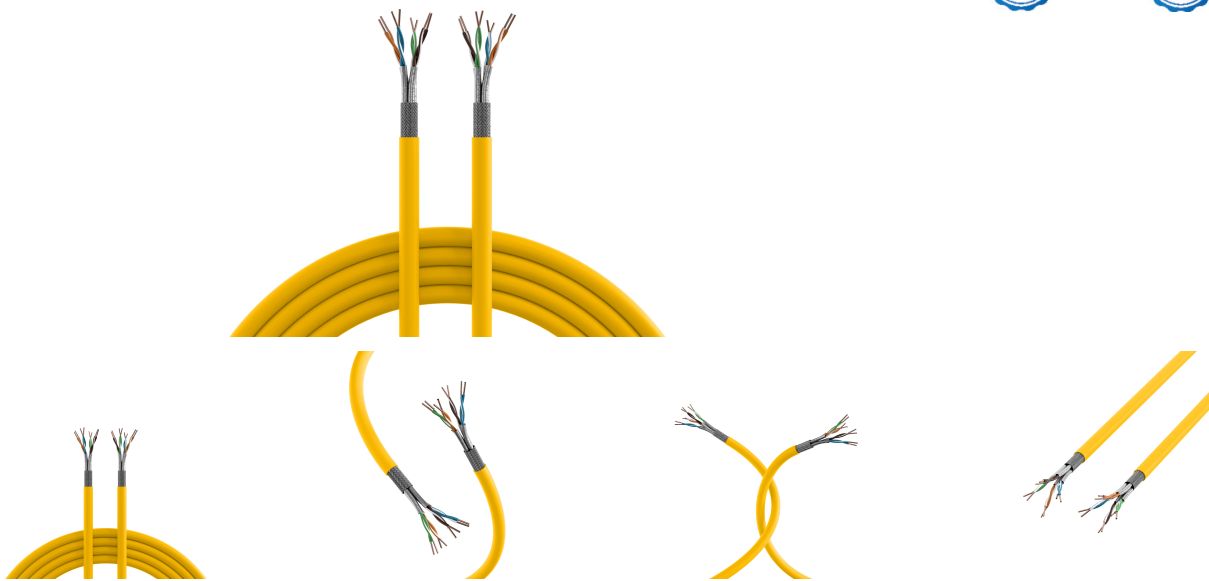


# DATASHEET

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



**FRNC-C**



## 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

Halogen free	acc. EN 60754-1/2
Conductor category	Class 1 = solid
UV resistance	no
Stranding element	Pairs
Category	7A
Material outer sheath	FRNC-B

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Core identification	Colour
Cable silicone free	True

## Mechanische Eigenschaften

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

### Kabelaufbau

Diameter conductor	0.64 mm
AWG-size	22/1
Cable Construction	S/FTP
Conductor material	Cu, tinned

### Kabelmantel

Euro class	Cca
Flame retardant	acc. EN 60332-1
Low smoke	acc. EN 61034-2

## 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
Screen over stranding element	Foil
Dielectric strength DC	1 kV/1 min
Capacity to earth	≤ 1200 pF/km
Resistance unbalance	≤ 2 %
Max. Frequency	1500 MHz
Transfer impedance at 1MHz	≤ 5 mOhm/m

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# DATASHEET

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

Characteristic impedance	100 ± 5 Ohm
Separation class acc. EN50174-2	D
Loop resistance	≤ 120 Ohm/km
Coupling attenuation	≥ 85 dB
Transfer impedance at 10MHz	≤ 5 mOhm/m
PoE	yes
Core insulation	foam-skin PE
Coupling attenuation Type	Type 1
Transfer impedance at 30MHz	≤ 5 mOhm/m
Insulation resistance (500V)	≥ 5000 MOhm/km
Transfer impedance at 100MHz	≤ 10 mOhm/m

### Normen, Zulassungen, Zertifizierungen

Low smoke (according to EN 61034-2)	True
Cabling standards	ISO/IEC 11801
Installation standard	EN 50174
Cable	EN 50288-9-1
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	Number of cores	RAL colour	Type	Cu-Zahl	Gewicht	Max. Zugkraft ca.	Außendurchmesser	Brandlast
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
999830.500-CPR	INFRALAN® Cat.7A 1500 AWG22,S/FTP 4P ,CPR Cca,25Gbit/s ready,rape yellow RAL1021	yellow	500.0 m	8	RAL1021	simplex	38 kg/km	75 kg/km	190 N	8,6 mm	0,69 MJ/m

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# DATASHEET

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

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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