

DATASHEET

INFRALAN® Cat.7A Installation Cable S/FTP 1200 MHz, CPR Cca



Description

The INFRALAN® installation cable 99985.x-CPR is constructed for transmissions up to **1200 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). With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible.

General data

Cable silicone free	yes
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Mechanical characteristics

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

Cable construction

Cable structure	S/FTP
Category	7A
Conductor category	Kl.1 = single wire
Conductor material	Cu, tinned
AWG-size/quantity of cores	23/1
Diameter conductor	0.56 mm

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Cable construction

Screen over stranding	braiding
Stranding element	pairs
Screen over stranding element	foil
Core insulation	foam-skin PE
Core identification	colour

Cable sheath

Material outer sheath	FRNC
Euro class	Cca
Flame retardant	acc. EN 60332-1
Halogen free	acc. EN 60754-1/2
Low smoke	acc. to EN 61034-2

Environmental conditions

Operating temperature, flexible	0 – 50 °C
Operating temperature, fix	-20 – 60 °C
Operating temperature, storage	0 – 50 °C

Electrical characteristics

PoE	yes;PoE+
NVP value	78 %
Loop resistance	≤ 140 Ohm/km
Resistance unbalance	≤ 2 %
Dielectric strength DC	1 kV/1 min
Insulation resistance (500V)	≥ 5000 MOhm/km
Capacity to earth	≤ 1600 pF/km
Impedance	100 ± 5 Ohm
Transfer impedance at 1MHz	≤ 10 mOhm/m
Transfer impedance at 10MHz	≤ 10 mOhm/m
Transfer impedance at 30MHz	≤ 20 mOhm/m
Transfer impedance at 100MHz	≤ 30 mOhm/m
Separation class acc. EN50174-2	D
Coupling attenuation Type	Typ 1b
Coupling attenuation	≥ 80 dB
Max. Frequency	1200 MHz

Standards, approvals, certifications

Cabling standards	ISO/IEC 11801;EN 50173-1
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Standards, approvals, certifications

Installation standard	EN 50174
Harmonised Standard	EN 50575
Directive/Regulation	RoHS 2011/65/UE;REACH 1907/2006/EC
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
Cable	IEC 61156-5;EN 50288-9-1

Available variants

Article no.	Title	Length	Colour outer sheath	RAL colour	Number of cores	Type	Outer diameter approx.	Copper weight	Weight	Max. tractive force	Fire load
99985.1-CPR	INFRALAN® Cat.7A 1200 AWG23 S/FTP 4P CPR Cca rape yellow RAL1021	1.0 m	rape yellow	RAL1021	8	simplex	7.7 mm	32 kg/km	62 kg/km	95 N	0.64 MJ/m
99985.500-CPR	INFRALAN® Cat.7A 1200 AWG23 S/FTP 4P CPR Cca rape yellow RAL1021, 500m	500.0 m	rape yellow	RAL1021	8	simplex	7.7 mm	32 kg/km	62 kg/km	95 N	0.64 MJ/m
99985DX.500-CPR	INFRALAN® Cat.7A 1200 AWG23 S/FTP 4P CPR Cca rape yellow RAL1021, 500m	500.0 m	rape yellow	RAL1021	2x8	duplex	7,7 x 16,1 mm	64 kg/km	124 kg/km	190 N	1.28 MJ/m