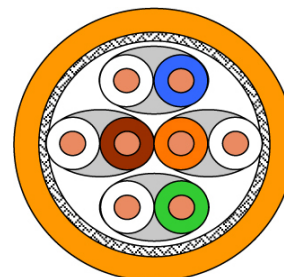


# DATASHEET

**INFRALAN® Cat.7 Installation cable S/FTP 1000 (AWG23), CPR Cca Art.-No.:99981.x-CPR**



The cable is silicone free in all its components



Application	Primary (Campus), Sekundary (Riser), Tertiary (Horizontal)
	IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; ISDN; TP-DDI; ATM
Standards	TIA/EIA 568 B-2.1; ISO/IEC 11801; EN50173; EN 50288-4-1, IEC 61156-5
Flame resistance	Harmonised Standard: EN 50575 Flame resistance: IEC 60332-1, IEC 60332-3 Halogenfree: IEC 60754-2 Low smoke: IEC 61034
EURO - Flame resistance class	Cca-s1, d2, a1

## Cable construction

Conductor	Bare copper wire Ø 0.56 mm (AWG 23/1)
Insulation	Foam-Skin Polyethylen, Ø 1.45 mm
Twisting	2 wires to the pair
Pair screen	AL-laminated plastic foil
Screen	copper braid, tinned
Sheath	LSHF (FRNC), orange RAL2003
Printing	99981.x-CPR: „INFRALAN“ Cat.7 1000 AWG23 S/FTP 4P EN50575 Euroclass Cca-s1,d2,a1 ISO/IEC11801 EN50173 Batch number + metric 99981DX.x-CPR: „INFRALAN“ Cat.7 1000 AWG23 S/FTP 2x4P EN50575 Euroclass Cca-s1,d2,a1 ISO/IEC11801 EN50173 Batch number + metric

## Mechanical characteristics

Bending radius	≥ 60 mm Installation
	≥ 30 mm Operation
Temperature range	during operation -20°C bis + 60°C
	during installation 0°C bis + 50°C



Art.No.	99981.x-CPR	File	99981.x-CPR.indd		
Description	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Cca				
Created	Date	Last revision	Date	Proved	Date
BF	28.06.2017			JB	04.07.2017

# DATASHEET

**INFRALAN® Cat.7 Installation cable S/FTP 1000 (AWG23), CPR Cca Art.-No.:99981.x-CPR**

## Electrical characteristics (at 20°C ± 5°C)

Loop resistance	≤ 146 Ω/km
Insulation resistance (500 V)	≥ 5000 MΩ *km
Capacitance unbalance (pair/ground)	≤ 1600 pF/km
Nominal velocity of propagation (NVP)	ca. 78%
Delay skew	≤ 20 ns/100m
Test voltage (DC, 1 min) core /core und core/screen	1000 V
Transfer impedance ( mΩ / m )	1 MHz    10 MHz    100 MHz
	10            10            30
Coupling attenuation	≥ 80 dB
Separating class acc. to EN 50174-2	D
Degree of braiding coverage in %	35

## Technical data

Art.No.	99981.x-CPR	99981DX.x-CPR
	4x2x0.56	2x(4x2x0.56)
Outer diameter	7.5 mm	7,5 x 15.8 mm
Fire load	570 MJ/km	1140 MJ/km
Weight	58 kg/km	116 kg/km
Copper content	28	56
Tensile force	95 N	190 N

## Electrical data (nominal) according to Cat.7 (at 20°C)

Frequency (MHz)		4	10	20	62.5	100	250	300	600	900	1000
Attenuation (dB/km)	Typ. value	3.6	5.5	7.9	14.5	18.5	29.6	32.8	47.6	58	63.3
Min. NEXT (dB)	Typ. value	98	98	98	98	98	88	87	86	73	72
Min. ACR (dB)	Typ. value	94.4	92.5	90.1	83.5	79.5	58.4	54.2	38.4	15.0	13.2
PS NEXT (dB)	Typ. value	95	95	95	95	95	85	84	83	77	75
ELFEXT (dB/100m)	Typ. value	96	95	92	86	82	70	67	52	48	47
PS ELFEXT (dB/100m)	Typ. value	92.69	1.6	88.6	82.6	78.6	66.6	63.6	48.6	44.6	43.6
Return Loss (dB)	Typ. value	26	26	26	26	24	22	21	19	18	18



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# DATASHEET

**INFRALAN® Cat.7 Installation cable S/FTP 1000 (AWG23), CPR Cca     Art.-No.:99981.x-CPR**

## Package information



500/1000 m drum



200 m box



100 m ring

## Order data

Art. No.	Type
99981.x-CPR	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Cca
99981DX.x-CPR	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Cca (duplex)



Art.No.	99981.x-CPR	File	99981.x-CPR.indd		
Description	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Cca				
Created	Date	Last revision	Date	Proved	Date
BF	28.06.2017			JB	04.07.2017