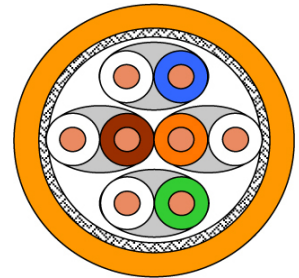


DATASHEET

INFRALAN® Cat.7 Installation cable S/FTP 1000 (AWG23), CPR Eca

Art.-No.:99980.x-CPR




Application	Primär (Campus), Sekundär (Riser), Tertiär (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 retardance: IEC 60332-1 Halogenfree: IEC 60754-2 Low smoke: IEC 61034
EURO - Flame resistance class	Eca

Cable construction

Conductor	Bare copper wire Ø 0.56 mm (AWG 23)
Insulation	Foam-Skin Polyethylen, Ø 1.35 mm
Twisting	2 wires to the pair
Pair screen	AL-laminated plastic foil
Screen	copper braid, tinned
Sheath	LSHF (FRNC), orange
Printing	99980.x-CPR: „INFRALAN(R) Cat.7 1000 AWG23 S/FTP 4P EN50575 Euroclass Eca ISO/IEC11801 EN50173 “ 99980DX.x-CPR: „INFRALAN(R) Cat.7 1000 AWG23 S/FTP 4P EN50575 Euroclass Eca ISO/IEC11801 EN50173 “

Mechanical characteristics

Bending radius	≥ 40 mm without load ≥ 80 mm with load
Temperature range	during operation -20°C bis + 60°C during installation 0°C bis + 50°C



Art.No.	99980.x-CPR	File	99980.x-CPR.indd		
Description	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Eca				
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 Eca Art.-No.:99980.x-CPR

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

Loop resistance	≤ 165 Ω/km			
Resistance unbalance	≤ 2%			
Insulation resistance (500 V)	≥ 2000 MΩ *km			
Mutual capacitance at 800 Hz	nom. 43 nF/km			
Capacitance unbalance (pair/ground)	≤ 1500 pF/km			
Characteristic impedance	(1-100) MHz	(100 ± 5) Ω		
	(100-250) MHz	(100 ± 10) Ω		
	(250-600) MHz	(100 ± 15) Ω		
Nominal velocity of propagation (NVP)	ca. 79%			
Propagation delay	≤ 427 ns/100 m			
Delay skew	≤ 12 ns/100m			
Test voltage (DC, 1 min) core /core und core/screen	1000 V			
Transfer impedance (mΩ / m)	1 MHz	10 MHz	30 MHz	100 MHz
	20	30	40	200

Technical data

Art.No.	99980.x-CPR	99980DX.x-CPR
	4x2x0.56	2x(4x2x0.56)
Outer diameter	7.3 mm	7.3 x 14.6 mm
Fire load	590 MJ/km 0.1657 kWh/m	1190 MJ/km 0.345 kWh/m
Weight	54.5 kg/km	109.2 kg/km
Copper content	26	52
Tensile force	110 N	220 N



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DATASHEET

INFRALAN® Cat.7 Installation cable S/FTP 1000 (AWG23), CPR Eca **Art.-No.:99980.x-CPR**

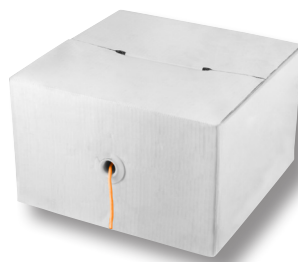
Electrical data (nominal) according to Cat.7 (at 20°C)

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1	1.8	100	97	98	95	105	105	-
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
16	6.8	100	97	93	90	93	90	30
20	7.7	100	95	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100	17.4	100	97	83	80	77	74	30
125	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175	23.3	93	90	70	67	72	69	25
200	25.0	92	89	67	64	71	68	25
250	28.1	90	87	62	59	69	66	24
300	30.9	89	86	58	55	67	64	24
450	38.3	87	84	48	45	64	61	23
600	44.8	85	82	40	37	61	58	22
750	52.0	83	80	31	28	59	56	21
900	59.4	82	79	23	20	58	55	20
1000	63.1	80	77	17	14	57	54	20

Package information



500/1000 m drum



200 m box



100 m ring

Order data

Art. No.	Type
99980.x-CPR	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Eca
99980.x-CPR	INFRALAN® Cat.7 Installation cable S/FTP 1000MHz (AWG23), CPR Eca (duplex)



Art.No.	99980.x-CPR	File	99980.x-CPR.indd		
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BF	28.06.2017			JB	04.07.2017