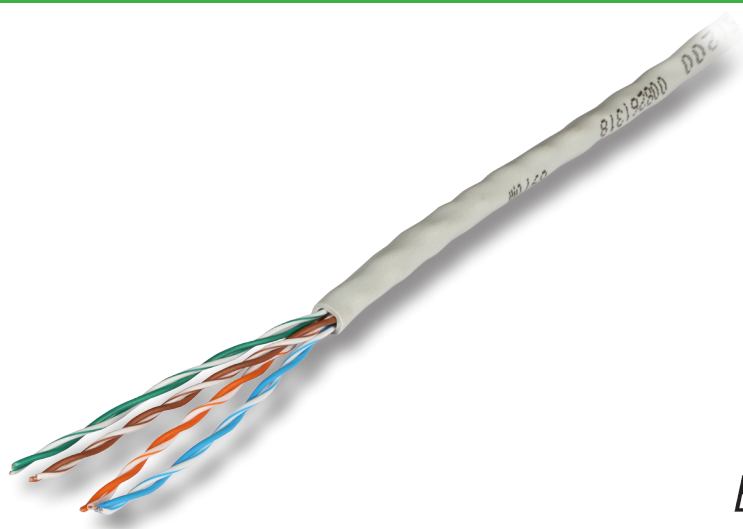


DATASHEET



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 50288-6-1, 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 1.00 mm
Twisting	2 wires to the pair
Pair screen	-
Screen	-
Sheath	LSHF (FRNC), grey RAL7035
Printing	99969.x-CPR: „ECOLAN“ Cat.6 250 AWG23 U/UTP 4P EN50575 Euroclass Eca ISO/IEC11801 EN50173 Batch number + metric

Mechanical characteristics

Bending radius	4x outer diameter fixed 8x outer diameter during installation
Temperature range	during operation -20°C bis + 60°C during installation 0°C bis + 50°C



Art.No.	99969.x-CPR	File	99969.x-CPR.indd		
Description	ECOLAN® Cat.6 Installation cable U/UTP 250MHz (AWG23), CPR Eca				
Created	Date	Last revision	Date	Proved	Date
BF	18.07.2017			JB	18.07.2017

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

Loop resistance	≤ 188 Ω/km			
Resistance unbalance	≤ 5%			
Insulation resistance (500 V)	≥ 5 GΩ *km			
Mutual capacitance at 800 Hz	nom. 50 nF/km			
Capacitance unbalance (pair/ground)	≤ 1500 pF/km			
Characteristic impedance	(1-100) MHz	(100 ± 15) Ω		
	(100-250) MHz	(100 ± 15) Ω		
Nominal velocity of propagation (NVP)	ca. 67%			
Propagation delay	≤ 510 ns/100 m			
Delay skew	≤ 45 ns/100m			
Test voltage (DC, 1 min) core /core und core/screen	700 V			
Transfer impedance (mΩ / m)	1 MHz	10 MHz	30 MHz	100 MHz
	20	30	40	200
Separating Class	B			

Technical data

Art.No.	99969.x-CPR
	4x2x0.56
Outer diameter	6.1 mm
Tensile Strength	≥10.0 Mpa



Art.No.	99969.x-CPR	File	99969.x-CPR.indd		
Description	ECOLAN® Cat.6 Installation cable U/UTP 250MHz (AWG23), CPR Eca				
Created	Date	Last revision	Date	Proved	Date
BF	18.07.2017			JB	18.07.2017

DATASHEET

ECOLAN® Cat.6 Installation cable U/UTP 250 (AWG23), CPR Eca

Art.-No.:99969.x-CPR

Electrical data (nominal) according to Cat.6 (at 20°C)

Transmission Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	200	250
NEXTA db/100m	74..3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3
Characteristic Impedance	100+/- 15									
Attenuation db/100m	2.0	3.8	6.0	7.6	8.5	10.7	15.4	19.8	29.0	32.8
Return Loss db/100m	20	23	25	25	25	23.6	21.5	20.1	18	17.3
PSNEXTA db/100m	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3
ELFEXTA db/100m	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8
PSELFEXTA db/100m	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8
Delay ns/100m	552	547	545	543	542	541	540	539	538	537
Skew ns/100m	≤45									

Order data

Art. No.	Type
99969.305-CPR	ECOLAN® Cat.6 Installation cable U/UTP 250MHz (AWG23), 305m box, CPR Eca
99969.500-CPR	ECOLAN® Cat.6 Installation cable U/UTP 250MHz (AWG23), 500m drum, CPR Eca



Art.No.	99969.x-CPR	File	99969.x-CPR.indd		
Description	ECOLAN® Cat.6 Installation cable U/UTP 250MHz (AWG23), CPR Eca				
Created	Date	Last revision	Date	Proved	Date
BF	18.07.2017			JB	18.07.2017