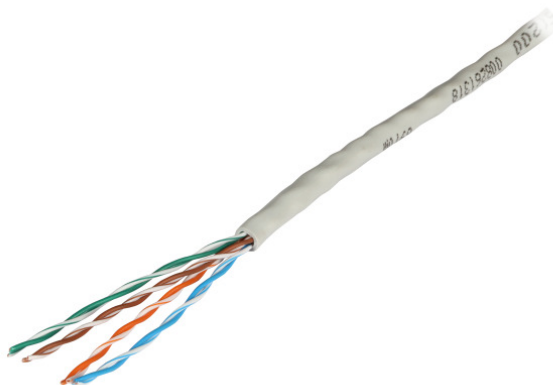


## ECOLAN® Cat.6 Installation cable U/UTP 250 MHz, CPR Eca



ECOLAN®

Cat.6

FRNC-B



### Description

The ECOLAN® installation cable 99969.x-CPR is constructed for transmissions up to 250 MHz and exceeds with the electrical transmission properties and requirements of the category 6.

### Mechanical characteristics

Bending radius (dynamic)	8 x OD
Bending radius (static)	4 x OD

### Kabelaufbau

Cable structure	U/UTP
Category	6
Conductor category	Kl.1 = single wire
Conductor material	Cu, blank
AWG-size/quantity of cores	23/1
Diameter conductor	0.56 mm
Nominal cross section conductor	0.26 mm <sup>2</sup>
Screen over stranding	without
Stranding element	pairs
Screen over stranding element	without
Core insulation	foam-skin PE
Core identification	colour

### Kabelmantel

Material outer sheath	LSZH
Euro class	Eca
Flame retardant	acc. EN 60332-1
Halogen free	acc. EN 60754-1/2

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# DATASHEET

## ECOLAN® Cat.6 Installation cable U/UTP 250 MHz, CPR Eca

### Kabelmantel

Low smoke	acc. EN 61034
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### Environmental conditions

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

### Electrical characteristics

NVP value	67 %
Loop resistance	≤ 188 Ohm/km
Resistance unbalance	≤ 5 %
Insulation resistance (500V)	≥ 5000 MOhm/km
Test voltage DC, 1 min	700 V
Capacity to earth	nom. 50 nF/km
Impedance	100 ± 5 Ohm
Delay skew	≤ 45 ns/100m
Transfer impedance at 1MHz	20 mOhm/m
Transfer impedance at 10MHz	30 mOhm/m
Transfer impedance at 30MHz	40 mOhm/m
Transfer impedance at 100MHz	200 mOhm/m
Separation class acc. EN50174-2	B

### Standards, approvals, certifications

Cabling standards	EN 50173;ISO/IEC 11801;TIA/EIA 568 B-2.1
Harmonised Standard	EN 50575
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Cable	IEC 61156-5;EN 50288-6-1

### Available variants

Article no.	Title	Length	Colour outer sheath	RAL colour	Number of cores	Type	Outer diameter approx.
99969.500-CPR	ECOLAN® Cat.6 250 AWG23, U/UTP 4P CPR Eca grey, 500m drum	500 m	grey	RAL7035	8	simplex	6.1 mm

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# DATASHEET

## ECOLAN® Cat.6 Installation cable U/UTP 250 MHz, CPR Eca

### Technical drawings

### Übertragungstechnische Eigenschaften (nominal) gemäß Cat.6 (bei 20°C)

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

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