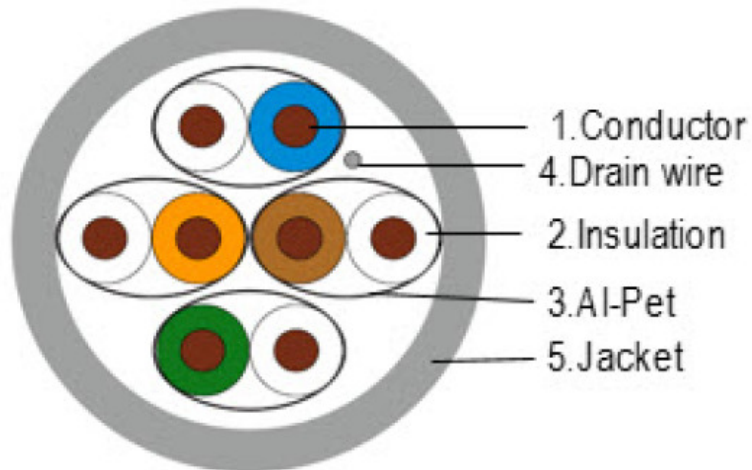


DATASHEET

INFRALAN® U/FTP Cat.6A 500MHz

Article no.

99978.305-CPR



INFRALAN®

Cat.6A



Description

INFRALAN® U/FTP Cat.6A Installation Cable

Mechanical characteristics

Bending radius (dynamic)	57.6 mm
Bending radius (static)	28.8 mm

Kabelaufbau

Cable structure	U/FTP
Category	6A (IEC)
Conductor category	Kl.1 = single wire
Conductor material	Cu, blank
AWG-size/quantity of cores	23/1
Diameter conductor	0.55
Nominal cross section conductor	0.26
Screen over stranding	without
Stranding element	pairs
Screen over stranding element	foil
Core insulation	cellular PE
Core identification	Colour

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Kabelmantel

Material outer sheath	LSZH
Euro class	Dca
Flame retardant	acc. EN 60332-1
Halogen free	acc. EN 60754
Low smoke	acc. EN 61034

Environmental conditions

Operating temperature, flexible	0 – 50 °C
Operating temperature, fix	-20 – 75 °C

Electrical characteristics

NVP value	74 %
Loop resistance	<88.4 Ohm/km
Impedance	100 ± 25 Ohm
Separation class acc. EN50174-2	C

Standards, approvals, certifications

Cabling standards	EN 50173;ISO/IEC 11801;ANSI/TIA 568-C.2
Installation standard	EN 50174
Harmonised Standard	EN 50575
Directive/Regulation	RoHS 2011/65/UE;REACH 1907/2006/EC
Transmission standards	IEEE 802.3 10Mbit to 10Gbit
Cable	IEC 61156-5

Available variants

Article no.	Title	Length	Colour outer sheath	RAL colour	Number of cores	Type	Outer diameter approx.	Weight	Max. tractive force
99978.305-CPR	INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 305m Box	305.0 m	white	RAL 9003	8	simplex	7.2 mm	50 kg/km	100 N
Article no.	Title	Length	Colour outer sheath	RAL colour	Number of cores	Type	Outer diameter approx.	Weight	Max. tractive force

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99978.500-CPR	INFRALAN® U/FTP Cat.6A 500MHz, AWG23 4P Dca, 500m Drum	500.0 m	white	RAL 9003	8	simplex	7.2 mm	50 kg/km	100 N
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Technical drawings

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WE CARE FOR CONNECTION



DATASHEET

INFRALAN® U/FTP Cat.6A 500MHz

Article no.

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Electrical Characteristics

Performance

Frequency (MHz)	Attenuation (dB/100m)	Next (dB)	PS NEXT (dB)	RL (dB)
4,00	3,80	66,30	63,30	23,00
10,00	5,90	60,30	57,30	25,00
16,00	7,50	57,20	54,20	25,00
31,25	10,50	52,90	49,90	23,60
62,50	15,00	48,40	45,40	21,50
100,00	19,10	45,30	42,30	20,10
250,00	31,10	39,30	36,30	17,30
500,00	45,30	34,80	31,80	17,30

Frequency (MHz)	ELFEXT (dB)	PEELFEXT (dB)
4,00	56,00	53,00
10,00	48,00	45,00
16,00	43,90	40,90
31,25	38,10	35,10
62,50	32,10	29,10
100,00	28,00	25,00
250,00	20,00	17,00
500,00	14,00	11,00



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