DATASHEET

Cat.7 Installation Cable S/FTP 1000 MHz, CPR







Description

The installation cable is constructed for transmissions up to **1000 MHz** and exceeds the requirements of the category 7 with the electrical transmission properties. With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible.

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

Cable construction	
Cable structure	S/FTP
Category	7
Conductor category	Kl.1 = single wire
Conductor material	CU, tinned
AWG-size/quantity of cores	23/1
Diameter conductor	0.56 mm
Nominal cross section conductor	0.26 mm²
Screen over stranding	braiding

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Cable construction	
Stranding element	pairs
Screen over stranding element	foil + braid
Core insulation	foam-skin PE
Core identification	colour

Cable sheath	
Material outer sheath	FRNC
Euro class	Eca
Flame retardant	acc. EN 60332-1
Halogen free	acc. EN 60754-1/2
Low smoke	acc. EN 61034

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

Electrical characteristics	
PoE	yes;PoE+
NVP value	79 %
Loop resistance	154 Ohm/km
Resistance unbalance	≤ 2 %
Insulation resistance (500V)	≥ 2000 MOhm/km
Test voltage DC, 1 min	1000 V
Capacity to earth	nom. 43 nF/km
Impedance	100 ± 5 Ohm
Delay skew	≤ 12 ns/100m
Transfer impedance at 1MHz	12 mOhm/m
Transfer impedance at 10MHz	10 mOhm/m
Transfer impedance at 30MHz	30 mOhm/m
Separation class acc. EN50174-2	D
Coupling attenuation Type	Type 2
Coupling attenuation	80 dB
Max. Freuqency	1000 MHz

Standards, approvals, certifications	
Cabling standards	ISO/IEC 11801;EN 50173-1;EN 50288
Harmonised Standard	EN 50575
Transmission standards	IEEE 802.3 10Mbit to 10Gbit