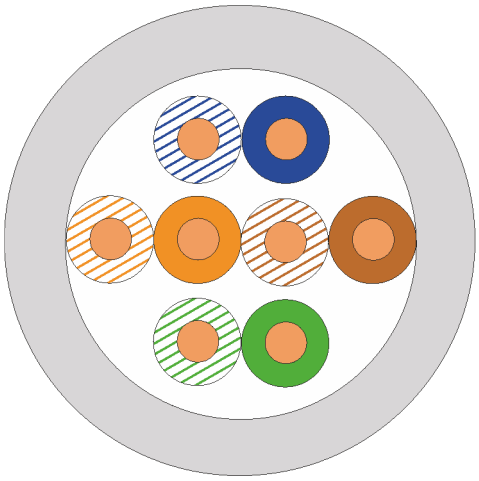
Product Information

Cat.5e cable, U/UTP, BKT 275, LSHF, solid wire, grey, Dca -s2,d2,a1

Card No.: PI_101504004_01.23



Dca
CPR

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 2.5GBASE-T
IEEE 802.5: 16MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) Type 1÷4

Standards

- EN 50173-1
- EN 50288-3-1
- EN 50399
- EN 50575
- ISO/IEC 11801-1
- IEC 61156-5
- ANSI/TIA-568.2
- IEEE 802.3af/at/bt

Flame Resistance

LSHF (LSOH): IEC 60332-1-2, IEC 61034-2, IEC 60754-2

CPR: Class Dca -s2,d2,a1 EN 50399, EN 50575

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Construction

Conductor	Bare copper wire 24AWG
Insulation	Polyethylene Ø 0,9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	LSHF (LSOH) grey RAL 7035

Mechanical Properties

Bending radius	installation	4 x Ø D
	installed	8 x Ø D
Temperature range	during operation	-20°C to +60°C
	during installation	0°C to +50°C

Electrical Properties at 20°C

DC Loop Resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2 %
Insulation resistance	[500 V]	≥ 5000 MΩkm
Mutual capacitance	[800 Hz]	≤ 56 nF/km
Capacitance unbalance	[para/ziemia]	≤ 3300 pF/km
Characteristic impedance	[100 MHz]	100 ± 15 Ω
Nominal Velocity of Propagation	NVP	69 %
Propagation Delay		≤ 538 ns/100m
Delay Skew		≤ 45 ns/100m
Test Voltage	[DC, 1min]	1000 V
Coupling attenuation		≥ 40 dB
Separation clasification according to EN 50174-2		„b”

Useful Properties

Fire Load	336 MJ/km	0,039 kWh/m
Tensile force	100 N	

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Transmission Characteristics

to cat. 5e at 20°C

Frequency (MHz)	Attenuation (dB/100m)	RL (dB)	NEXT (dB/100m)	PS NEXT (dB/100m)	ACR-N (dB/100m)	PS ACR-N (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)
1	1,8	31,5	80,3	79,3	78,5	77,5	74	73,7
4	3,8	30,1	75,3	73	71,5	69,2	60,5	60,1
10	6,0	29,6	64,6	63,6	58,6	57,6	51	50,5
16	7,6	32,6	64,5	63,3	56,9	55,7	47,5	47,3
20	8,5	32,4	62,8	58,6	54,3	50,1	42,2	43,2
31,25	10,6	32,5	54	52,9	43,4	42,3	41,15	40,8
62,5	15,1	26,1	61,1	57,5	42,2	42,4	40,4	37,7
100	19,1	29	58,4	56	39,3	36,9	36,1	32,1
125	21,5	21,2	54,1	51,5	32,6	30	33,5	32,3
155	24	24	52,4	49,5	28,4	25,5	30,1	29,2
200	27,4	22,4	49,2	47,3	21,8	19,9	27,3	26,5

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
101504004.305	J-2YH 4x2x0.50	Cat.5e cable, U/UTP, BKT 275, LSHF, solid wire, grey, Dca -s2,d2,a1 (box 305m)	18212314	5,0	29

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