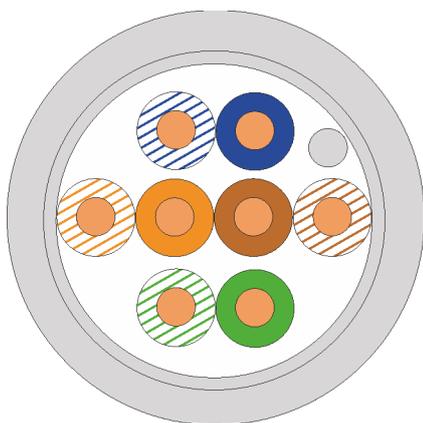


Product Information

Cat.5e cable, F/UTP, BKT 285, LSHF, solid wire, grey, Dca -s2,d2,a1

Card No.: PI_101505004_01.23



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 50288-2-1
- 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

Product Information

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Construction

Conductor	Bare copper wire 24AWG
Insulation	Polyethylene \varnothing 1,0 mm
Twisting	2 pairs to the core
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil, drain wire AWG 26 tinned
Sheath	LSHF (LSOH) grey RAL 7035

Mechanical Properties

Bending radius	installation	4 x D
	installed	8 x 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		$\leq 190 \Omega/\text{km}$
Resistance unbalance		$\leq 2\%$
Insulation resistance	[500 V]	$\geq 5000 \text{ M}\Omega\text{km}$
Mutual capacitance	[800 Hz]	$\leq 56\text{nF}/\text{km}$
Capacitance unbalance	[pair/ground]	$\leq 3300 \text{ pF}/\text{km}$
Characteristic impedance	[100 MHz]	$100 \pm 15 \Omega$
Nominal Velocity of Propagation	NVP	69 %
Propagation Delay		$\leq 538 \text{ ns}/100\text{m}$
Delay Skew		$\leq 45 \text{ ns}/100\text{m}$
Test Voltage	[DC, 1 min]	1000 V
Coupling attenuation		$\geq 55 \text{ dB}$
Transfer impedance	at 10 MHz	$\leq 100 \text{ m}\Omega/\text{m}$
Separation classification according to EN 50174-2		„C”

Useful Properties

Fire Load	415 MJ/km	0,115 kWh/m
Tensile force	100 N	

Product Information

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Card No.: PI_101505004_01.23

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	2,1	31,1	81,1	79	79	76,9	84,3	81
4	3,9	35,6	75,2	72,1	71,3	68,2	73	70,6
10	6,1	34,3	63,3	61,5	57,2	55,4	65,4	63,1
16	7,7	36,7	59,5	58,1	51,8	50,4	63,5	60,1
20	8,7	38	56,7	55,1	48	46,4	62,2	58,9
31,25	10,9	38,2	57,2	54	46,3	43,1	60,9	57,1
62,5	15,5	32,6	48,9	46	33,4	30,5	48,5	45
100	19,7	34,4	55	51,2	35,3	31,5	45,5	43,5
125	22,1	26,4	48,6	47,7	26,5	25,6	47,15	44,3
155	24,7	24,9	43,6	41	18,9	16,3	45	41,3
200	28,1	22,1	42,4	40	14,3	11,9	40	37,1

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
101505004.305	J-02Y(St)H 4x2x0.50	Cat.5e cable, F/UTP, BKT 285, LSHF, solid wire, grey, Dca -s2,d2,a1 (box 305m)	18242324	6,0	36