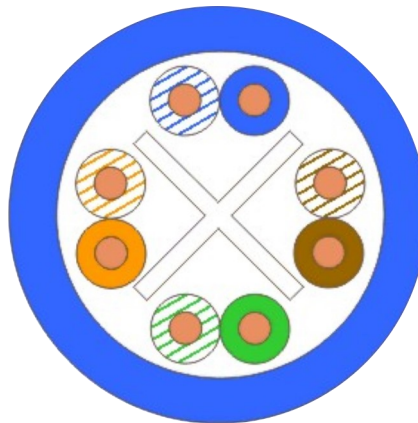


Product Information

Cat.6 cable, U/UTP, BKT 405, LSHF, solid wire, blue, Dca -s2,d2,a2

Card No.: PI_10151013_01.22



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T
IEEE 802.5: 16MB, ISDN, TPDDI, ATM
Power over Ethernet (PoE) Type 1÷4

Standards

- EN 50173-1
- EN 50288-6-1
- EN 50399
- EN 50575
- ISO/IEC 11801-1
- IEC 61156-5
- ANSI/TIA-568.2
- IEEE 802.3af/at/bt

Flame Resistance

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

CPR: Class Dca -s2,d2,a2

EN 50399, EN 50575

Product Information

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Construction

Conductor	Bare copper wire \varnothing 0,57 mm (AWG23)
Insulation	Polyethylene \varnothing 0,98 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core, non metallic cross separator (spline)
Sheath	LSHF (LSOH, FRNC) blue RAL 5012

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		$\leq 176 \Omega/\text{km}$
Resistance unbalance		$\leq 2 \%$
Insulation resistance	[500 V]	$\geq 5000 \text{ M}\Omega\text{km}$
Mutual capacitance	[800 Hz]	nom. 48 nF/km
Capacitance unbalance	[pair/ground]	$\leq 1500 \text{ pF}/\text{km}$
Characteristic impedance	[100 MHz]	$100 \pm 15 \Omega$
Nominal Velocity of Propagation	NVP	69 %
Propagation Delay		$\leq 535 \text{ ns}/100\text{m}$
Delay Skew		$\leq 20 \text{ ns}/100\text{m}$
Test Voltage	[DC, 1min]	1000 V
Coupling attenuation		$\geq 40 \text{ dB}$
Separation clasification according to EN 50174-2		„b”

Useful Properties

Fire Load	390 MJ/km	0,108 kWh/m
Tensile force	100 N	

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Transmission Characteristics
to cat. 6 at 20°C

Frequency (MHz)	Attenuation (dB/100m)	RL (dB)	NEXT (dB)	PS NEXT (dB)	ACR-N (dB/100m)	PS ACR-N (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)
1	2,2	20	75	72	73,1	70,1	63,3	61,3
4	4,0	23	66	63	62,2	69,2	51,2	49,2
10	6,2	25	60	57	54,0	51,0	43,3	41,3
16	7,8	25	57	54	49,4	46,4	39,2	37,2
20	8,7	25	56	53	47,5	44,5	37,2	35,2
31,2	10,9	24	53	50	42,3	39,3	33,4	31,4
62,5	15,6	22	48	45	32,9	29,9	27,3	25,3
100	20,0	21	45	42	25,9	22,9	23,3	21,3
200	29,2	18	41	38	14,0	11,0	17,2	15,2
250	33,0	17	39	36	7,0	4,0	15,3	13,3

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
10151013.305	J-2YH 4x2x0.57	Cat.6 cable, U/UTP, BKT 405, LSHF, solid wire, blue, Dca -s2,d2,a2 (box 305m)	18213346	6,0	38