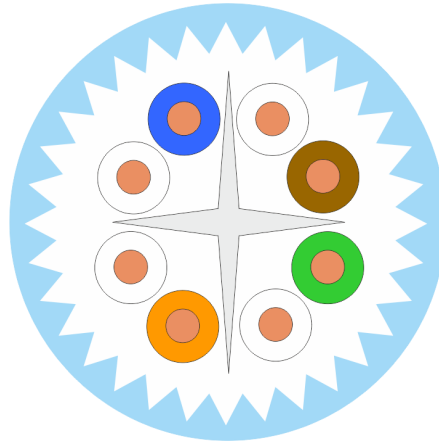


Product Information

Cat.6A cable, U/UTP, BKT 505, LSHF, solid wire, blue, Eca

Card No.: PI_10157415_01.22



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T
IEEE 802.5: 16MB, ISDN, FDDI, ATM
Power over Ethernet (PoE / PoE+)

Standards

- EN 50173-1
- EN 50288-11-1
- EN 50399
- EN50575
- ISO/IEC 11801-1
- IEC 61156-5
- ANSI/TIA 568.2
- IEEE 802.3af/at

Flame Resistance

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

CPR: Klasa Eca - EN 50399, EN 50575

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Construction

Conductor	Bare copper wire \varnothing 0,57mm (AWG23)
Insulation	Polyethylene \varnothing 1,101 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core separated with non metallic cross separator
Sheath	LSHF (LSOH, FRNC) blue RAL 5024

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		$\leq 155 \Omega/\text{km}$
Resistance unbalance		$\leq 2 \%$
Insulation resistance	[500 V]	$\geq 5000 \text{ M}\Omega\text{km}$
Mutual capacitance	[800 Hz]	nom. 56 nF/km
Capacitance unbalance	[pair/ground]	$\leq 1600 \text{ pF}/\text{km}$
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		$\leq 45 \text{ ns}/100\text{m}$
Test Voltage	[DC, 1min]	1000 V
Coupling attenuation		$\geq 40 \text{ dB}$
Separation clasification according to EN 50174-2		„b”

Useful Properties

Fire Load	585 MJ/km	0,162 kWh/m
Tensile force	100 N	

Product Information

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Card No.: PI_10157415_01.22

Transmission Characteristics

 to cat. 6_A at 20°C

Frequency (MHz)	Attenuation (dB/100m)	RL (dB)	NEXT (dB)	PS NEXT (dB)	ACR-F (dB/100m)	PS ACR-F (dB/100m)
1	2,1	20,0	74,3	72,3	68,0	65,0
10	5,9	25,0	59,3	57,3	48,0	45,0
100	19,1	20,1	44,3	42,3	28,0	25,0
200	27,6	18,0	39,8	37,8	22,0	19,0
250	31,1	17,3	38,3	36,3	20,0	17,0
300	34,3	17,3	37,1	35,1	18,5	15,5
500	45,3	17,3	33,8	31,8	14,0	11,0

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
10157415.500	J-2YH 4x2x0.57	Cat.6A cable, U/UTP, BKT 505, LSHF, solid wire, blue, Eca (500m)	12214362	7,0	39,2