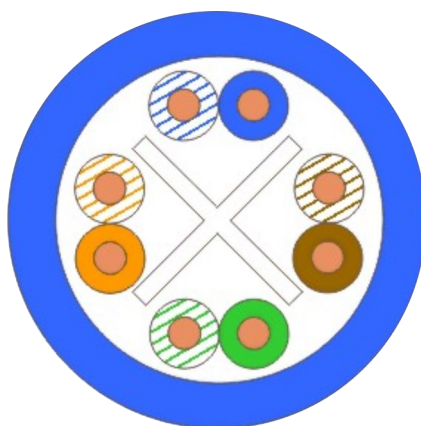


Product Information

Cat.6 cable, U/UTP, BKT 405, LSHF-FR, solid wire, blue, B2ca -s1a,d1,a1

Card No.: PI_10151C105_01.23



B2ca
CPR

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-FR (LSOH-FR): IEC 60332-1-2, IEC 60332-3-24, IEC 61034-2, IEC 60754-2

CPR: Class B2ca -s1a,d1,a1 EN 50399, EN 50575

Product Information

Cat.6 cable, U/UTP, BKT 405, LSHF-FR, solid wire, blue, B2ca -s1a,d1,a1

Card No.: PI_10151C105_01.23

Construction

Conductor	Bare copper wire 23AWG
Insulation	Polyethylene Ø 1,0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core, non metallic cross separator
Sheath	LSHF-FR (LSOH-FR) 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		≤ 150 Ω/km
Resistance unbalance		≤ 2 %
Insulation resistance	[500 V]	≥ 5000 MΩkm
Mutual capacitance	[800 Hz]	≤ 56 nF/km
Capacitance unbalance	[pair/ground]	≤ 3300 pF/km
Characteristic impedance	[100 MHz]	100 ± 15 Ω
Nominal Velocity of Propagation	NVP	67 %
Propagation Delay		≤ 570 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	527 MJ/km	0,146 kWh/m
Tensile force	100 N	

Product Information

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Card No.: PI_10151C105_01.23

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	1,9	20,0	78	75	76,1	73,1	82	80
4	3,8	23,0	69	66	65,2	62,2	70	68
10	6,0	25,0	63	60	57,0	54,0	62	60
16	7,6	25,0	60	57	52,3	49,3	58	56
20	8,5	25,0	59	56	50,0	47,0	56	54
31,2	10,7	23,6	56	53	45,0	42,0	52	50
62,5	15,1	21,5	51	48	36,0	33,0	46	44
100	19,1	20,1	48	45	28,9	25,9	42	40
125	21,3	19,5	47	44	25,2	22,2	40	38
155,5	23,8	18,8	45	42	21,3	18,3	38	36
175	25,3	18,4	44	41	19,1	16,1	37	35
200	27,0	18,0	44	41	16,5	13,5	36	34
250	32,0	17,3	42	39	10,0	7,0	34	32
300	36,1	-	41	38	4,8	1,8	32	30
400	41,7	-	39	36	-2,7	-5,7	30	28

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
10151C105.500	J-2YH 4x2x0.55	Cat.6 cable, U/UTP, BKT 405, LSHF-FR, solid wire, blue, B2ca -s1a,d1,a1 (500m)	19313345	6,3	43