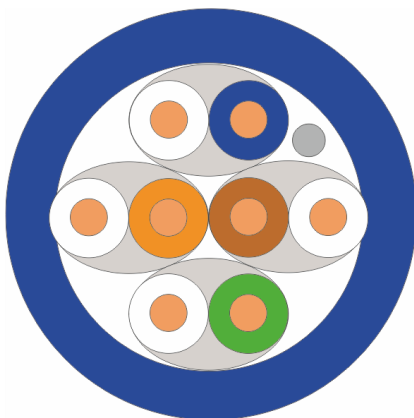


Product Information

Cat.6 cable, U/FTP, BKT 455, LSHF, solid wire, blue, B2ca -s1a, d1, a1

Card No.: PI_10151G905_01.25



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

Flame Resistance

LSHF-FR (LS0H-FR, FRNC-C): IEC 60332-1-2, IEC 61034-2, IEC 60754-2

CPR: Class B2ca -s1a,d1,a1

EN 50399, EN 50575

Product Information

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Card No.: PI_10151G905_01.25

Construction

Conductor	Bare copper wire 23AWG
Insulation	Polyethylene Ø 1,36 mm
Cable lay up	4x2 insulated cores twisted pairs
Screen	Al-laminated plastic foil around each pair, drain wire Ø 0,4 mm tinned
Sheath	LSHF-FR (LSOH-FR, FRNC-C) 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		≤ 190 Ω/km
Resistance unbalance		≤ 2 %
Insulation resistance	[500 V]	≥ 5000 MΩkm
Mutual capacitance	[800 Hz]	nom. 44 nF/km
Capacitance unbalance	[pair/ground]	≤ 1200 pF/km
Characteristic impedance	[100 MHz]	100 ± 5 Ω
Nominal Velocity of Propagation	NVP	75 %
Propagation Delay		≤ 548 ns/100m
Delay Skew		≤ 25 ns/100m
Test Voltage	[DC, 1min]	1000 V
Coupling attenuation		≥ 55 dB
Transfer impedance	at 1MHz	≤ 50 mΩ/m
	at 10MHz	≤ 100 mΩ/m
	at 30MHz	≤ 200 mΩ/m
Separation clasification according to EN 50174-2		„C”

Useful Properties

Fire Load	639 MJ/km	0,177kWh/m
Tensile force	100 N	

Product Information

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Card No.: PI_10151G905_01.25

Transmission Characteristics

to cat. 6 at 20°C

Częstotliwość (MHz)	Tłumienność (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	1,8	-	100	97	82	79	88	87,5
4	3,4	33,4	86,4	85,8	83	80	88,8	87,8
16	6,8	35,8	103,5	101,8	96,7	93,7	91,3	91
100	17,6	30,5	114,8	11,8	97,2	94,2	83	81,8
250	28,2	24	115,9	112,8	87,7	84,7	75,7	75,3
455	40,2	27,2	112,6	109,5	72,4	69,4	65,6	65,6

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
10151G905.500	4x2x23AWG PiMF	Cat.6 cable, U/FTP, BKT 455, LSHF, solid wire, blue, B2ca -s1a,d1,a1 (500m)	19333356	7,4±0,3	53