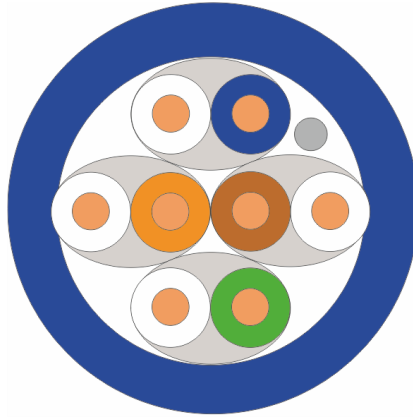


Product Information

Cat.6 cable, U/FTP, BKT 455, LSHF, solid wire, blue, Dca -s1,d1,a1

Card No.: PI_101515107_01.23



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

CPR: Class Dca -s1,d1,a1

EN 50399, EN 50575

Product Information

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Card No.: PI_101515107_01.23

Construction

Conductor	Bare copper wire 23AWG
Insulation	Foam-Skin-PE Ø 1,4 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated foil around each pair, drain wire Ø 0,4 mm tinned
Sheath	LSHF (LSOH) 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]	nom. 56 nF/km
Capacitance unbalance	[pair/ground]	≤ 3300 pF/km
Characteristic impedance	[100 MHz]	100 ± 15 Ω
Nominal Velocity of Propagation	NVP	75 %
Propagation Delay		≤ 570 ns/100m
Delay Skew		≤ 45 ns/100m
Coupling attenuation		≥ 55 dB
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 mΩ/m
Separation classification according to EN 50174-2		„C”

Useful Properties

Fire Load	501 MJ/km	0,139 kWh/m
Tensile force	100 N	

Product Information

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Card No.: PI_101515107_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	1,8	-	99	97	97	95	105	105
4	3,4	27	99	97	96	94	105	102
10	5,4	30	98	96	94	92	97	94
16	6,8	30	98	96	92	90	93	90
20	7,7	30	97	96	91	89	91	88
31,2	9,6	30	97	95	90	87	87	84
62,5	13,7	30	96	95	86	83	81	78
100	17,4	30	96	94	83	80	77	74
125	19,5	26	95	92	75	72	75	72
155,5	21,9	26	94	91	72	69	73	70
175	23,3	25	93	90	70	67	72	69
200	25,0	25	92	89	67	64	71	68
250	28,1	24	90	87	62	59	69	66
300	30,9	24	89	86	58	55	67	64
400	38,3	23	87	84	48	45	64	61
455	41,6	22	85	82	43	40	62	59

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
101515107.500	J-02YS(St)H 4x2x0.57	Cat.6 cable, U/FTP, BKT 455, LSHF, solid wire, blue, Dca -s1,d1,a1 (500m)	19233357	7,3	52