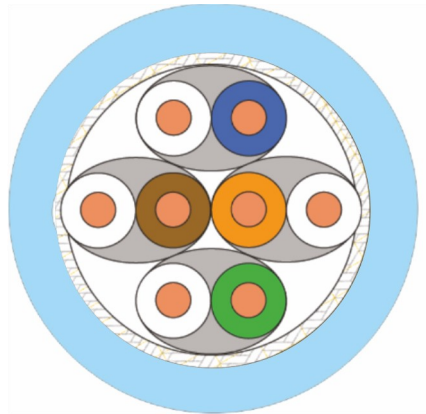


Product Information

BKT 595 S/FTP cat. 6_A installation cable

Card No.: PI_BKT 595 SFTP cat.6A B2ca_01.20



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, TPDDI, ATM
Power over Ethernet (PoE / PoE+ / PoE++)

Standards

- EN 50173-1
- EN 50288-10-1
- 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, FRNC-C): IEC 60332-1, IEC 61034, IEC 60754-2, IEC 60332-3-24

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

Product Information

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Card No.: PI_BKT 595 SFTP cat.6A B2ca_01.20

Construction

Conductor	Bare copper wire AWG23
Insulation	Polyethylene Ø 1,38 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	Copper braid, tinned
Sheath	LSHF-FR (LSOH-FR, FRNC-C) 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		≤ 160 Ω/km
Resistance unbalance		≤ 2 %
Insulation resistance	[500 V]	≥ 2000 MΩkm
Mutual capacitance	[800 Hz]	nom. 43 nF/km
Capacitance unbalance	[pair/ground]	≤ 1500 pF/km
Characteristic impedance	[100 MHz]	100 ± 5 Ω
Nominal Velocity of Propagation	NVP	79 %
Delay Skew		≤ 12 ns/100m
Test Voltage	[DC, 1min]	1000 V
Coupling attenuation		≥ 85 dB
Transfer impedance	at 1MHz	≤ 8 mΩ/m
	at 10MHz	≤ 8 mΩ/m
	at 30MHz	≤ 10 mΩ/m
Separation classification according to EN 50174-2		„d”

Useful Properties

Fire Load	640 MJ/km	0,177 kWh/m
Tensile force	110 N	

Product Information

 BKT 595 S/FTP cat. 6_A installation cable

Card No.: PI_BKT 595 SFTP cat.6A B2ca_01.20

Transmission Characteristics

 to cat. 6_A 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	-	100	97	98	95	105	105
4	3,4	27	100	97	97	94	105	102
10	5,4	30	100	97	95	92	97	94
16	6,8	30	100	97	93	90	93	90
20	7,7	30	100	97	92	89	91	88
31,2	9,6	30	100	97	90	87	87	84
62,5	13,7	30	100	97	86	83	81	78
100	17,4	30	100	97	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
500	44,8	22	85	82	40	37	61	58

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
101547205.500	J-02YSCH 4x2x23AWG	Cable S/FTP LSHF-FR cat.6A BKT 595 wire blue 23AWG B2ca -s1a,d1,a1 (500m)	113643H5	7,4	64