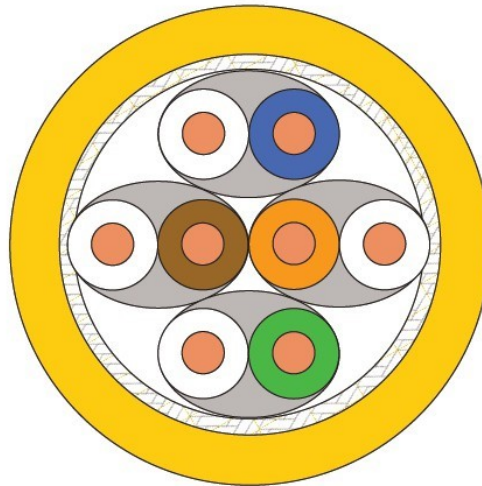


Product Information

Cat.8.1/8.2 cable, S/FTP, BKT 2000, LSHF-FR, solid wire, yellow, B2ca -s1a,d1,a1

Card No.: PI_1015B7505_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, 40GBASE-T
IEEE 802.5: ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO Cabling
Power over Ethernet (PoE) Type 1÷4

Standards

- EN 50173-1
- EN 50288-12-1
- EN 50399
- EN 50575
- ISO/IEC 11801-1
- IEC 61156-5
- IEC 61156-9
- IEEE 802.3af/at/bt

Flame Resistance

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

CPR: Class B2ca -s1a,d1,a1

EN 50399, EN 50575

Product Information

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Construction

Conductor	Bare copper wire \varnothing 0,64 mm (AWG22)
Insulation	Polyethylene \varnothing 1,6 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated aplastic foil
Cable lay up	4 pairs to the core
Screen	Copper braid, tinned
Sheath	LSHF-FR (LSOH-FR, FRNC-C) yellow RAL 1021

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		$\leq 130 \Omega/\text{km}$
Resistance unbalance		$\leq 1 \%$
Insulation resistance	[500 V]	$\geq 5000 \text{ M}\Omega\text{km}$
Mutual capacitance	[800 Hz]	nom. 43 nF/km
Capacitance unbalance	[pair/ground]	$\leq 1200 \text{ pF}/\text{km}$
Characteristic impedance	[100 MHz]	$100 \pm 5 \Omega$
Nominal Velocity of Propagation	NVP	73 %
Delay Skew		$\leq 20\text{ns}/100\text{m}$
Coupling attenuation		$\geq 85 \text{ dB}$ Type 1
Transfer impedance	at 1 MHz	$\leq 5 \text{ m}\Omega/\text{m}$
	at 10 MHz	$\leq 5 \text{ m}\Omega/\text{m}$
	at 30 MHz	$\leq 10 \text{ m}\Omega/\text{m}$
Separation clasification according to EN 50174-2		„d”

Useful Properties

Fire Load	803 MJ/km	0,223 kWh/m
Tensile force	340 N	

Product Information

Cat.8.1/8.2 cable, S/FTP, BKT 2000, LSHF-FR, solid wire, yellow, B2ca -s1a,d1,a1

Card No.: PI_1015B7505_01.22

Transmission Characteristics

to cat. 8.2 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	29	102	99	100	97	100	97
4	3,0	33	102	99	99	96	98	95
10	4,9	32	102	99	97	94	97	94
16	6,3	32	102	99	96	93	97	94
20	7,0	31	102	99	95	92	96	93
31,25	8,9	31	100	97	91	88	95	92
62,5	12,5	30	100	97	87	84	94	91
100	16,1	27	100	97	84	81	90	87
155	18,0	26	99	96	81	78	88	85
200	19,1	24	98	95	79	76	84	81
250	24,2	22	97	94	73	70	83	80
300	28,2	22	97	94	71	68	81	78
600	48,0	22	96	93	48	45	80	77
1000	55,8	20	89	86	33	30	75	72
1200	58,6	20	86	83	27	24	73	70
1500	67,5	19	83	80	15	12	66	63
1600	68,4	18	79	76	11	8	65	62
2000	78,1	18	75	72	-3	-6	59	56

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
1015B7505.1000	J-02YSCH 4x2x0.64 PiMF	Cat.8.1/8.2 cable, S/FTP, BKT 2000, LSHF-FR, solid wire, yellow, B2ca -s1a,d1,a1 (1000m)	113693G5	8,5	80