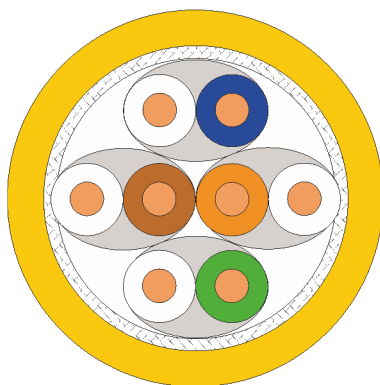


Product Information

Cat.7A cable, S/FTP, BKT 1500 SS 25GbE, LSHF-FR, solid wire, melon yellow, B2ca -s1a,d1,a1

Card No.: PI_101567605_01.22



B2ca
CPR

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3: 10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T, 25GBASE-T up to 30m acc. ISO/IEC TR 11801-9905

IEEE 802.5: 16MB, ISDN, TPDDI, ATM, CATV, Broadband Video

Power over Ethernet (PoE) Type 1÷4

Standards

- EN 50173-1
- EN 50288-9-1
- EN 50399
- EN 50575
- ISO/IEC 11801-1
- IEC 61156-5
- IEC 61156-7
- 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

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Construction

Conductor	Bare copper wire \varnothing 0,64 mm (AWG22)
Insulation	Foamskin Polyethylene \varnothing 1,5 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated aplastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	Copper braid, tinned
Sheath	LSHF-FR (LSOH-FR, FRNC-C) melon yellow RAL 1028

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		$\leq 128 \Omega/\text{km}$
Resistance unbalance		$\leq 2 \%$
Insulation resistance	[500 V]	$\geq 5000 \text{ M}\Omega/\text{km}$
Mutual capacitance	[800 Hz]	nom. 43 nF/km
Capacitance unbalance	[pair/ground]	$\leq 1500 \text{ pF}/\text{km}$
Characteristic impedance	[100 MHz]	$100 \pm 5 \Omega$
Nominal Velocity of Propagation	NVP	79 %
Propagation Delay		$\leq 450 \text{ ns}/100\text{m}$
Delay Skew		$\leq 15\text{ns}/100\text{m}$
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	$\leq 9 \text{ m}\Omega/\text{m}$
Separation clasification according to EN 50174-2		„d”

Useful Properties

Fire Load	637 MJ/km	0,176 kWh/m
Tensile force	150 N	

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Cat.7A cable, S/FTP, BKT 1500 SS 25GbE, LSHF-FR, solid wire, melon yellow, B2ca -s1a,d1,a1

Card No.: PI_101567605_01.22

Transmission Characteristics

 to cat. 7_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	1,7	23	100	97	98	95	100	97
4	3,3	26	100	97	97	94	97	94
10	5,1	28	100	97	95	92	95	92
16	6,5	28	100	92	94	91	90	87
20	7,3	28	100	90	93	90	90	87
31,25	9,1	27	100	90	91	88	90	87
62,5	12,8	25	100	90	87	84	85	82
100	16,3	23	100	87	83	80	80	77
155	20,3	21	95	87	75	72	78	75
200	23,0	21	95	87	72	69	75	72
250	25,8	20	90	87	64	61	69	66
300	28,3	20	89	85	61	58	65	62
600	40,2	20	85	82	45	42	45	42
1000	52,1	20	83	80	31	28	40	37
1200	57,1	18	83	80	26	23	35	32
1400	61,3	17	81	78	21	18	30	27
1500	64,1	17	80	77	16	13	28	25

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
101567605.1000	J-02YSCH 4x2x0,64 PiMF	Cat.7A cable, S/FTP, BKT 1500 SS 25GbE, LSHF-FR, solid wire, melon yellow, B2ca -s1a,d1,a1 (1000m)	113663D5	7,9	68