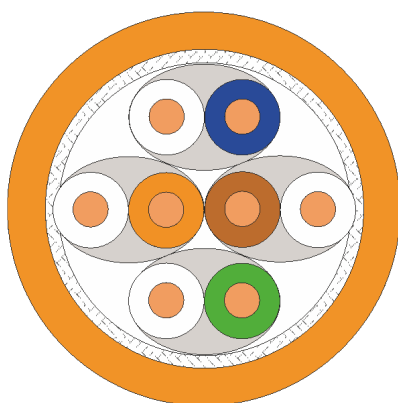


## Product Information

Cat.7 cable, S/FTP, BKT 1000, LSHF-FR, solid wire, orange, Dca -s2,d1,a1

Card No.: PI\_101537252\_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

IEEE 802.5: 16MB; ISDN; TPDDI; ATM, CATV

Power over Ethernet (PoE) Type 1÷4

## Standards

- EN 50173-1
- EN 50288-4-1
- EN 50399
- EN 50575
- ISO/IEC 11801-1
- IEC 61156-5
- 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 Dca -s2,d1,a1

EN 50399, EN 50575

## Product Information

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## Construction

<b>Conductor</b>	Bare copper wire $\varnothing$ 0,57 mm (AWG23)
<b>Insulation</b>	Foam Skin Polyethylene $\varnothing$ 1,38 mm
<b>Twisting</b>	2 cores to the pair
<b>Pair screen</b>	Al-laminated aluminium foil
<b>Cable lay up</b>	4 pairs (PiMF) to the core
<b>Screen</b>	Copper braid, tinned
<b>Sheath</b>	LSHF-FR (LSOH-FR, FRNC-C) orange RAL 2003

## 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		$\leq 154 \Omega/\text{km}$
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		$\leq 427 \text{ ns}/100\text{m}$
Delay Skew		$\leq 12 \text{ ns}/100\text{m}$
Test Voltage	[DC, 1min]	1000 V
Coupling attenuation		$\geq 80 \text{ dB}$ Type 2
Transfer impedance	at 1 MHz	$\leq 10 \text{ m}\Omega/\text{m}$
	at 10 MHz	$\leq 8 \text{ m}\Omega/\text{m}$
	at 30 MHz	$\leq 10 \text{ m}\Omega/\text{m}$
Separation classification according to EN 50174-2		„d”

## Useful Properties

Fire Load	608 MJ/km	0,168 kWh/m
Tensile force	110 N	

**Product Information**

Cat.7 cable, S/FTP, BKT 1000, LSHF-FR, solid wire, orange, Dca -s2,d1,a1

Card No.: PI\_101537252\_01.22

**Transmission Characteristics**

to cat. 7 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
450	38,3	23	87	84	48	45	64	61
600	44,8	22	85	82	40	37	61	58
750	52,0	21	83	80	31	28	59	56
900	59,4	20	82	79	23	20	58	55
1000	63,1	20	80	77	17	14	57	54

**Technical Data**

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
101537252.500	J-02YSCH 4x2x0.57 PiMF	Cat.7 cable, S/FTP, BKT 1000, LSHF-FR, solid wire, orange, Dca -s2,d1,a1 (500m)	113653B3	7,5	58,6