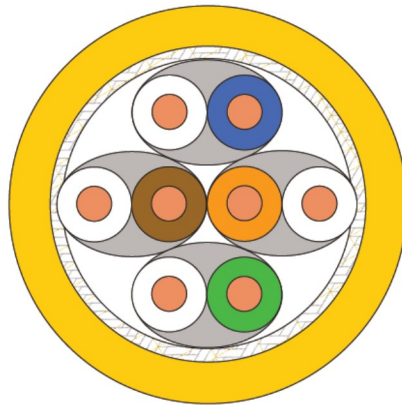


Product Information

Cat.7 cable, S/FTP, BKT 695, FRNC, solid wire, yellow, Dca -s2,d1,a1

Card No.: PI_101546203_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
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

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

CPR: Class Dca -s2,d1,a1

EN 50399, EN 50575

Product Information

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Card No.: PI_101546203_01.22

Construction

Conductor	Bare copper wire \varnothing 0,57 mm (AWG23)
Insulation	Foamskin Polyethylene \varnothing 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	FRNC (LSHF, LSOH, LSZH) 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		$\leq 165 \Omega/\text{km}$
Resistance unbalance		$\leq 2 \%$
Insulation resistance	[500 V]	$\geq 2000 \text{ M}\Omega\text{km}$
Mutual capacitance	[800 Hz]	nom. 43 nF/km
Capacitance unbalance	[pair/ground]	$\leq 1600 \text{ pF}/\text{km}$
Characteristic impedance	[100 MHz]	$100 \pm 5 \Omega$
Nominal Velocity of Propagation	NVP	75 %
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		$\geq 75 \text{ dB}$
Transfer impedance	at 1 MHz	$\leq 20 \text{ m}\Omega/\text{m}$
	at 10MHz	$\leq 20 \text{ m}\Omega/\text{m}$
	at 30MHz	$\leq 60 \text{ m}\Omega/\text{m}$
Separation classification according to EN 50174-2		„C”

Useful Properties

Fire Load	596 MJ/km	0,165 kWh/m
Tensile force	110 N	

Product Information

Cat.7 cable, S/FTP, BKT 695, FRNC, solid wire, yellow, Dca -s2,d1,a1

Card No.: PI_101546203_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)
101546203.500	J-02YSCH 4x2x0,57 PiMF	Cat.7 cable, S/FTP, BKT 695, FRNC, solid wire, yellow, Dca -s2,d1,a1 (500m)	114653A3	7,2	54,7