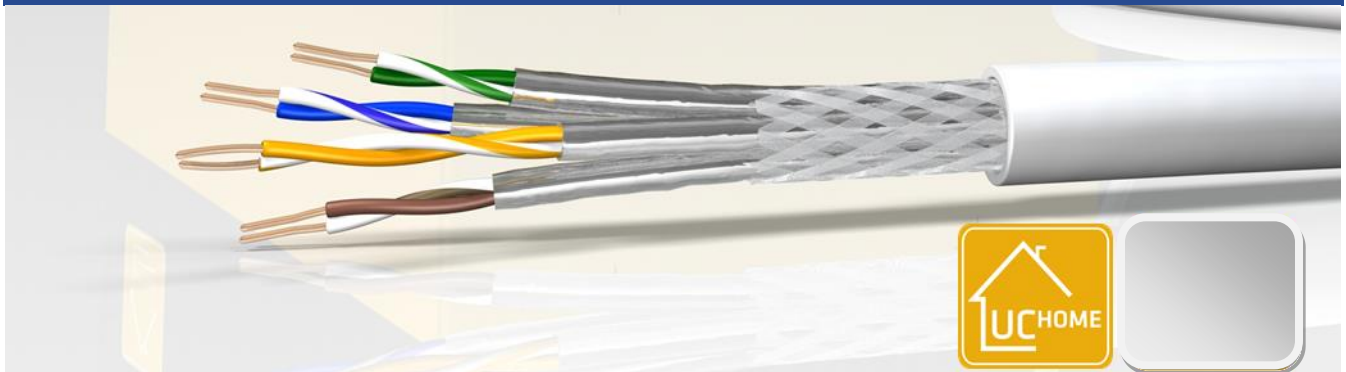


UC^{HOME} Cat.7_A SS22 S/FTP LSHF-FR D_{ca}s1 d1 a1

Cat.7_A S/FTP



Application

Primary (Campus), Sekundary (Riser), Tertiary(Horizontal), Home Cabling (Smart Home)
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
 ISDN;
 Power over Ethernet (PoE) / Type 1-4

Standards

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

Flame resistance

EN 50399: Class D_{ca}s1 d1 a1
 LSHF-FR: IEC 60332-3-24; IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	Bare Copper Wire (AWG22)
Insulation	Foam-Skin Polyethylene, Ø 1.5 mm
Twisting	2 cores to a pair
Pair screening	AL-laminated plastic foil
Cable lay up	4 Pairs (PiMF) to a core
Screening	Copper braid, tinned
Printing	DRAKA UC ^{HOME} Cat.7A SS22 S/FTP 4P + batch number + meter marking
Sheath	LSHF-FR, white

Mechanical properties

Bending radius	Without load	4xD
	With load	8xD
Temperature range	During operation	-20°C to + 60°C
	During installation	10°C to + 40°C

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Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 260 Ω /km	
Resistance unbalance		≤ 2%	
Insulations resistance	(500 V)	≥ 5000 MΩ *km	
Mutual capacity	at 800 Hz	Nom. 44 nF/km	
Capacity unbalance	(pair/ground)	≤ 1600 pF/km	
Characteristic impedance	100 MHz	100 ± 5 Ω	
Nominal velocity of propagation		ca. 76%	
Delay skew		≤ 9 ns/100m	
Test voltage	(DC, 1 min) core/core and core/screen	1000 V	
Transfer impedance	at 1 MHz	5 mΩ /m	Grade 1
	at 10 MHz	5 mΩ /m	
	at 30 MHz	10 mΩ /m	
	at 100MHz	20 mΩ /m	
Coupling attenuation		85 dB	Type 1
Segregation classification acc. EN 50174-2			„D“

Nominal Transmission characteristics

acc. Cat. 7_A at 20°C

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS- ACRF (dB/100m)
1	1.7	100	98	23	97	95	100	97
4	3.3	100	97	26	97	94	97	94
10	5.1	100	95	28	97	92	95	92
16	6.5	100	94	28	92	91	90	87
20	7.3	100	93	28	90	90	90	87
31.25	9.1	100	91	27	90	88	90	87
62.50	12.8	100	87	25	90	84	85	82
100	16.3	100	83	23	87	80	80	77
155	20.3	95	75	21	87	72	78	75
200	23.0	95	72	21	87	69	75	72
250	25.8	90	64	20	87	61	69	66
300	28.3	89	61	20	85	58	65	62
600	40,2	85	45	20	82	42	45	42
1000	52,1	83	31	20	80	28	40	37
1200	57,1	83	26	18	80	23	35	32
1400	61,3	81	21	17	78	18	30	27
1500	64,1	80	16	17	77	13	28	25

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Product order data

Product code	Cable type	Brand name	Outer diameter mm	Euro class	Fire load MJ/km	Weight kg/km	Copper content	Tensile force N
60095153	J-02YSCH 4x2xAWG22 PiMF	UC ^{HOME} Cat.7 _A SS22 S/FTP LSHF-FR 200BR	7.6	D _{ca} s1d1a1	645	66	40.4	340