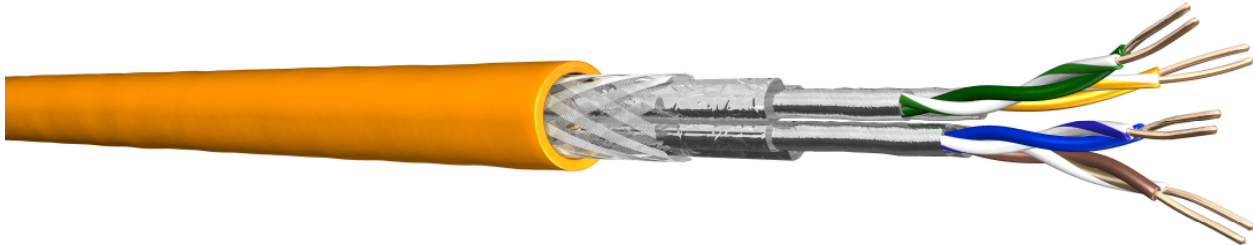


UC MULTIMEDIA 1500 SS23 LSHF-FR D_{ca}

6FOILS S/FTP AWG23/1



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
ISDN; TPDDI; ATM, CATV, Broadband Video, SOHO-Cabling
Power over Ethernet (PoE) / PoE+

Standards

EN 50173-1; EN 50288-9-1
ISO/IEC 11801; IEEE 802.3at
IEC 61156-5; IEC61156-7

Flame resistance

EN 50399: Class D_{cas}2d1a1; Class E_{ca}
LSHF-FR(FRNC): IEC 60332-3-24; IEC 60332-1; 60754-2; IEC 61034

Construction

Conductor	bare copper wire Ø 0.57 mm (AWG 23/1)
Insulation	Foamskin PE, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil, patented wrapping of two pairs each
Cable lay up	2 x 2 pairs to the core
Screen	copper braid, tinned
Sheath	LSHF-FR D _{ca} melon yellow RAL 1028

Mechanical properties

Bending radius	without load	4 x D
	with load	8 x D
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

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Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 135 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 2000 MΩ*km	
Mutual capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km	
Mean characteristic impedance	at 100 MHz	100 ± 5 Ω	
Nominal velocity of propagation		ca. 80 %	
Propagation delay		≤ 427 ns/100m	
Delay skew		≤ 12 ns/100m	
Test voltage	(DC, 1 min) core/core and core/screen	1000 V	
Transfer impedance	bei 1 MHz	≤ 5 mΩ /m	Grade 1
	bei 10 MHz	≤ 2 mΩ /m	
	bei 30 MHz	≤ 2 mΩ /m	
Coupling attenuation		≥ 85 dB	Type 1
Segregation classification acc. EN 50174-2			„d“

Electrical data (nominal)

acc. to Cat.7A (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1.0	1.8	115	112	113	110	105	102	-
4.0	3.4	115	112	112	109	105	102	27
10.0	5.4	115	112	110	107	97	94	30
16.0	6.8	115	112	108	105	93	90	30
20.0	7.7	115	112	107	104	91	88	30
31.2	9.6	115	112	105	102	87	84	30
62.5	13.7	114	111	100	97	81	78	30
100.0	17.4	111	108	94	91	77	74	30
155.5	19.5	109	106	89	86	75	72	26
200.0	25.0	107	104	82	79	71	68	25
250.0	28.1	105	102	77	74	69	66	24
300.0	30.9	104	101	73	70	67	64	24
600.0	44.8	100	97	55	52	61	58	22
1000.0	58.4	96	93	37	34	57	54	19
1200.0	65.2	95	92	30	27	45	42	
1500.0	73.5	94	91	21	18	43	40	

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Product order data

Product code	Cable type	Brand name	Outer diameter mm	Euro class	Fire load		Weight kg/km	Copper content	Tensile force
					MJ/km	kWh/m			N
60011602	J-02YSCH 4x2x0.57 PIMF	UC MULTIMEDIA 1500 SS23 6F S/FTP 4P LSHF-FR D _{ca}	7.9	D _{ca} S2d1a1	642	0.178	81	39	340

Certificates



Product Code Table

Product Description	PG Reference Code	PG Part Number
UC MM 1500 SS23 6F S/FTP LSHFFR 500DW	60011602	60011601
UC MM 1500 SS23 6F S/FTP LSHFFR	60011602	60011602
UC MM 1500 SS23 6F S/FTP LSHFFR 100RW	60011602	60015304
UC MM 1500 SS23 6F S/FTP LSHFFR 1000DW	60011602	60015307

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