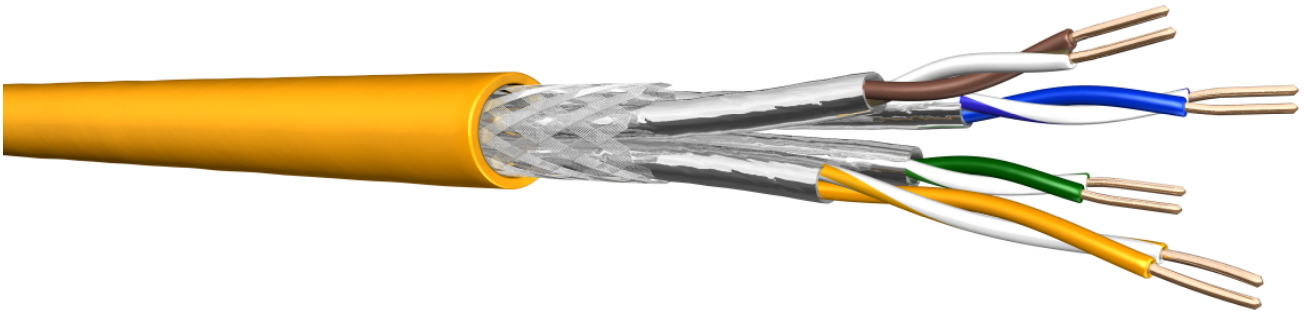


# UC1200 SS23 Cat.7<sub>A</sub> S/FTP LSHF-FR C<sub>ca</sub> s1a d1 a1 S/FTP AWG23/1



## Application

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

## Standards

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

## Fire rating

EN 50399: Class C<sub>ca</sub>s1a d1 a1  
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034

## Construction

Conductor	Bare copper wire Ø 0.58 mm (AWG23/1)
Insulation	Foam-Skin PE, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil around each pair
Cable lay up	4 pairs
Overall screen	Copper braid, tinned
Sheath	Halogen free, flame and fire retardant sheathing material: LSHF-FR (LSFROH), 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

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## Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 135 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 5000 MΩ*km	
Mutual capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km	
Characteristic impedance (mean)	@ 100 MHz	(100 ± 5) Ω	
Nominal velocity of propagation		ca. 76 %	
Propagation delay		439 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	<b>Grade 1</b>
	bei 10 MHz	≤ 5 mΩ /m	
	bei 30 MHz	≤ 10 mΩ /m	
Coupling attenuation		≥ 85 dB	<b>Type 1</b>
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	100	97	98	95	105	103	22
4,0	3,4	100	97	97	94	93	91	25
10,0	5,4	100	97	95	92	85	83	27
16,0	6,8	100	97	93	90	81	79	27
20,0	7,7	100	97	92	89	79	77	27
31,2	9,6	100	97	90	87	75	73	26
62,5	13,7	100	97	86	83	69	67	24
100,0	17,4	100	97	83	80	65	63	22
125,0	18,6	95	92	76	73	63	61	21
155,5	19,5	95	92	75	69	61	59	21
175,0	22,1	92	89	70	67	60	58	20
200,0	25,0	92	89	67	64	59	57	20
250,0	28,1	90	87	62	59	57	55	19
300,0	30,9	89	86	58	55	55	53	19
450,0	37,4	87	84	50	47	52	50	19
600,0	44,8	85	82	40	37	49	47	19
750,0	50,5	83	80	32	29	59	56	19
900,0	55,9	82	79	26	23	58	55	19
1000,0	58,5	82	79	24	21	57	54	19
1200,0	63,4	81	78	19	16	52	49	17

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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 kg/km	Tensile force N
60060846	J-02YSCH 4x2x0,58 PiMF	UC1200 SS23 Cat.7A S/FTP 4P LSHF-FR	7,9	C <sub>ca</sub> s1a d1 a1	615	71	39	140
60066426	J-02YSCH 2x4x2x0,58 PiMF	UC1200 SS23 Cat.7A S/FTP 2x4P LSHF-FR Cca	7.7x15.6mm	Cca s1 d1 a1	1187	139	78	280

### Certificates

