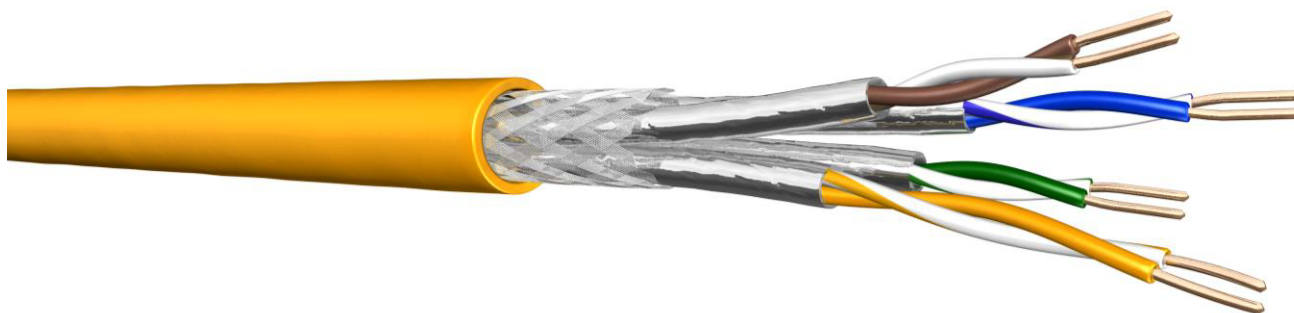


# UC1500 SS22 Cat.7<sub>A</sub> S/FTP LSHF-FR D<sub>ca</sub>

S/FTP AWG22/1



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; 25GBase-T up to 30m acc. ISO/IEC TR 11801-9905  
IEEE 802.5  
ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO-Cabling  
Power over Ethernet (PoE) / Type 1-4

## Standards

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

## Fire rating

EN 50399: Class D<sub>ca</sub>s2d1a1  
LSHF-FR(FRNC): IEC 60332-3-24; IEC 60332-1; 60754-2; IEC 61034

## Construction

Conductor	Bare copper wire AWG22
Insulation	PE, Ø 1.5 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-laminated plastic foil around each pair
Overall screen	Copper braid, tinned
Sheath	LSHF-FR D <sub>ca</sub> , halogen free, fire retardant sheathing material; melon 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

DC loop resistance		≤ 128 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 5000 MΩxkm	
Capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km	
Mean Characteristic impedance	@ 100 MHz	100 ± 5 Ω	
Nominal velocity of propagation		79%	
Propagation delay		450 ns/100 m	
Delay skew		15 ns/100 m	
Transfer impedance	bei 1 MHz	5 mΩ /m	Grade 1
	bei 10 MHz	5 mΩ /m	
	bei 30 MHz	9 mΩ /m	
Coupling attenuation		≥ 85 dB	Type 1
Segregation classification acc. EN 50174-2			„d“

## Nominal Transmission characteristics

acc. Cat.7<sub>A</sub> 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
60045751	J-02YSCH 4x2xAWG22 PiMF	UC1500 SS22 Cat.7A S/FTP 4P LSHF-FR	7.6	D <sub>ca</sub> s2d1a1	645	66	40.4	340
60046077	J-02YSCH 2x4x2xAWG22 PiMF	UC1500 SS22 C7A S/FTP 2x4P LSHF-FR	7.6/15.2	D <sub>ca</sub> s2d1a1	1285	135	80.8	680

### Product Code Table

Product Description	PG Reference Code	PG Part Number
UC1500 SS22 Cat.7A S/FTP 4P LSHF-FR	60045751	60045751
UC1500 SS22 Cat.7A S/FTP 4P LSHF-FR 500DW	60045751	60048194
UC1500 SS22 Cat.7A S/FTP 4P LSHF-FR 1000DW	60045751	60045752
UC1500 SS22 Cat.7A S/FTP 2x4P LSHF-FR	60046077	60046077
UC1500 SS22 Cat.7A S/FTP 2x4P LSHF-FR 500DW	60046077	60046078