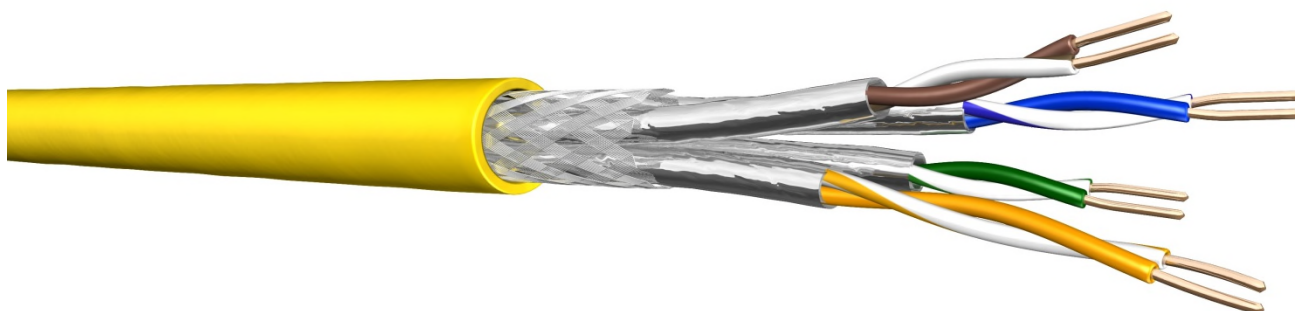


UC1500 SS22 Cat.7_A 25GbE S/FTP LSHF-FR C_{ca} S/FTP AWG22/1



Application

Primär (Campus), Sekundär (Riser), Tertiär (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,
 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 C_{ca}s1a d1 a1
 LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC 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 C _{ca} , halogen free, fire retardant sheathing material; 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

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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_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
60065547	J-02YSCH 4x2xAWG22 PiMF	UC1500 SS22 Cat.7A 25GbE S/FTP 4P LSHF-FR C _{ca}	7,9	C _{ca} s1a d1 a1	620	66	40.4	150
60065571		UC1500 SS22 C7A 25GbE S/FTP 4P LSHF-FR C _{ca} 1000DW						
60066425	J-02YSCH 2x 4x2xAWG22 PiMF	UC1500 SS22 C7A 25GbE S/FTP 2x4P LSHF-FR C _{ca}	7.7 x 15.6mm	C _{ca} s1 d2 a1	1205	131	80.8	300