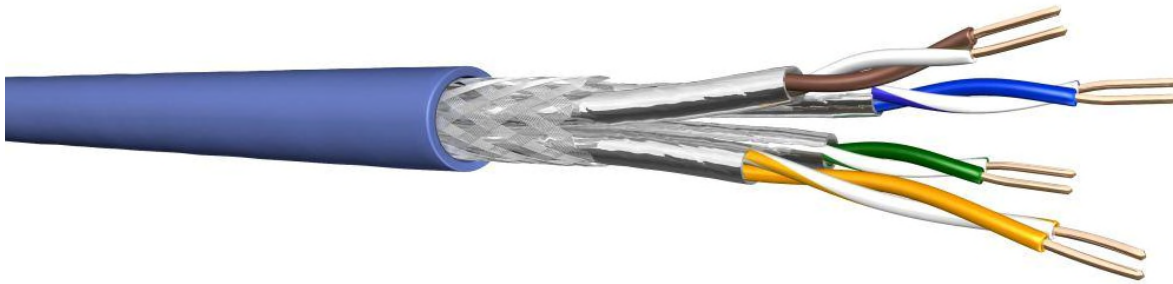


UC LR22 10Gbit S/FTP LSHF-FR D_{ca}

S/FTP LONG REACH cable AWG22/1



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, IP Cameras, Broadband Video, SOHO-Cabling

120m range in the Channel E_A for 10Gbit transmissions guaranteed * / **

Standards

EN 50173-1; ISO/IEC 11801; EN 50288-9-1; IEC61156-5; IEC61156-7

Fire rating

EN 50399. Class D_{ca} s2d1a1
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034;

Construction

Conductor	Bare copper wire Ø 0.64 mm (AWG22)
Insulation	PE, Ø 1.6 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 Ø 7,0mm
Sheath	Halogen free, fire retardant sheathing material; LSHF-FR, blue RAL 5024

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

* 105m Permanent Link PL2 garantiert

** Requires suitable components and patch cable

UC LR22 10Gbit S/FTP LSHF-FR D_{ca}

Electrical Properties

at 20°C

DC loop resistance		≤ 110 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 5000 MΩxkm	
Capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair to ground)	≤ 1200 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	≤ 10 mΩ /m	
Coupling attenuation		≥ 85 dB	Type 1
Segregation classification acc. EN 50174-2			„d“

Nominal Transmission characteristics

acc. Cat.7 at 20°C

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,8	100	97	98	95	105	103	20
4,0	3,4	100	97	97	94	93	91	23
10,0	5,4	100	97	95	92	85	83	25
16,0	6,8	100	97	93	90	81	79	25
20,0	7,7	100	97	92	89	79	77	25
31,2	9,6	100	97	90	87	75	73	24
62,5	13,7	100	97	86	83	69	67	22
100,0	17,4	100	97	83	80	65	63	20
125,0	18,6	95	92	76	73	63	61	19
155,5	19,5	95	92	75	69	61	59	19
175,0	22,1	92	89	70	67	60	58	18
200,0	25,0	92	89	67	64	59	57	18
250,0	28,1	90	87	62	59	57	55	17
300,0	30,9	89	86	58	55	55	53	17
450,0	37,4	87	84	50	47	52	50	17
600,0	44,8	85	82	40	37	49	47	17
1000,0	58,4	82	79	24	21	45	43	17

UC LR22 10Gbit S/FTP LSHF-FR D_{ca}

Product order data

Product reference code	Length	Cable type	Brand name	Outer diameter	Euro Class	Fire load	Weight	Copper content	Tensile force
				mm		MJ/km	kg/km		N
60039920	1000m	J-02YSCH	UC LR22 10Gbit S/FTP 4P	8.5	D _{ca} s2d1a1	521	76	43	340
60039572	500m	4x2x0.64 PiMF	LSHF-FR						

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