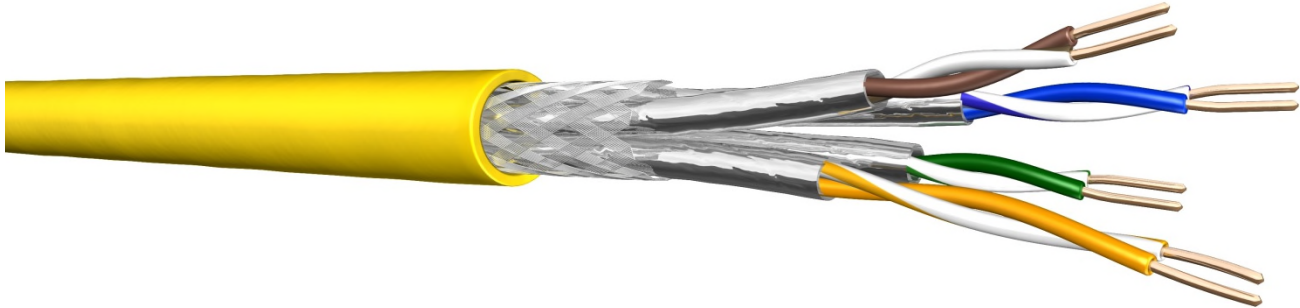


# UC<sup>FUTURE</sup> COMPACT22 Cat8.2 S/FTP C<sub>ca</sub> s1a d1 a1

## S/FTP LSHF-FR



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; 40GBase-T  
ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO-Cabling  
Power over Ethernet (PoE) / PoE+

## Standards

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

## Fire rating

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

## Construction

Conductor	Bare copper wire Ø 0.64 mm (AWG22)
Insulation	Foam-Skin Polyethylen, 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
Sheath	Halogen free, fire retardant sheathing material; LSHF-FR acc. EN50289-2-27, 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

DC loop resistance		≤ 130 Ω/km	
Resistance unbalance		≤ 1%	
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		Nom. 73%	
Delay skew		20 ns/100 m	
Transfer impedance	1 MHz	5 mΩ /m	<b>Grade 1</b>
	10 MHz	5 mΩ /m	
	30 MHz	10 mΩ /m	
	100 MHz	20 mΩ /m	
Coupling attenuation		85 dB	<b>Type 1</b>
Segregation class acc. EN 50174-2		„d”	

## Nominal Transmission characteristics acc. Cat.8.2 at 20°C

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ACR-F (dB/100m)	PS-ACR-F (dB/100m)
1	1,8	102	100	29	99	97	100	97
4	3,0	102	99	33	99	96	98	95
10	4,9	102	97	32	99	94	97	94
16	6,3	102	96	32	99	93	97	84
20	7,0	102	95	31	99	92	96	93
31.25	8,9	100	91	31	97	88	95	92
62.50	12,5	100	87	30	97	84	94	91
100	16,1	100	84	27	97	81	90	87
155	18,0	99	81	26	96	78	88	85
200	19,1	98	79	24	95	76	84	81
250	24,2	97	73	22	94	70	83	80
300	28,2	97	71	22	94	68	81	78
600	48,0	96	48	22	93	45	80	77
1000	55,8	89	33	20	86	30	75	72
1200	58,6	86	27	20	83	24	73	70
1500	67,5	83	15	19	80	12	66	63
1600	68,4	79	11	18	76	8	65	62
2000	78,1	75	-3	18	72	-6	59	56

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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
60060913	J-02YSCH 4x2xAWG22 PiMF	UC <sup>FUTURE</sup> COMPACT22 Cat.8.2 S/FTP 4P 2000MHz LSHF-FR	9.3	C <sub>ca</sub> s1a d1 a1	944	92	47	340

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