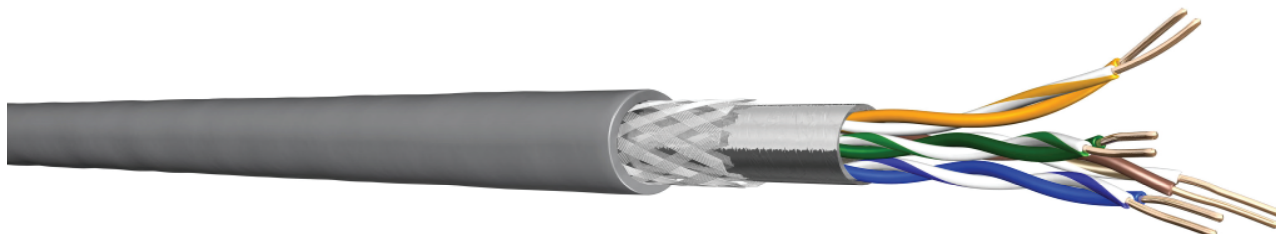


UC300 HS24 Cat.5e LSHF-FR D_{ca}

SF/UTP Installation Cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Standards

EN 50173-1; EN 50288-2-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568-C.2
IEEE 802.3at

Flame resistance

EN 50399: Class D_{cas}2d2a1;
LSHF (LSOH): IEC 60332-3-24; IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	bare copper wire, Ø 0.51 mm (AWG24)
Insulation	PE, Ø 1.1 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil and Copper braid, tinned
Sheath	LSHF-FR Dca, grey RAL 7035 Duplex sheath: two cables parallel, separable

Mechanical properties

Bending radius	without load	4 x D
	with load	8 x D
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

UC300 HS24 Cat.5e LSHF-FR D_{ca}

Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Mutual capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		ca. 67%
Propagation delay		≤ 535 ns/100 m
Delay skew		≤ 20 ns/100 m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	≤ 20 mΩ /m
	at 10 MHz	≤ 20 mΩ /m
	at 30 MHz	≤ 30 mΩ /m
	at 100MHz	≤ 60 mΩ /m
Coupling attenuation		≥ 75 dB
Segregation class		"c"

Electrical data (nominal)

acc. to Cat.5e (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	1.9	71	68	69.1	66.1	68	65	20
4.0	3.7	62	59	58.3	55.3	56	53	23
10.0	6.0	56	53	50.0	47.0	48	45	25
16.0	7.6	53	50	45.4	42.4	44	41	25
20.0	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.3	25.3	32	29	22
100.0	19.8	41	38	21.2	18.2	28	25	20
125.0	22.3	40	37	17.7	14.7	26	23	19
155.5	24.2	38	35	13.8	10.8	24	21	
175.0	25.7	37	34	11.3	8.3	23	20	
200.0	27.5	36	33	8.5	5.5	22	19	
250.0	29.2	35	32	5.8	2.8	20	17	
300.0	32.0	34	31	2.0	-1.0	16	13	

UC300 HS24 Cat.5e LSHF-FR D_{ca}

Product order data

Product reference code	Cable type	Brand name	Outer diameter	Euro Class	Fire load		Weight	Cu Content	Tensile force
					MJ/km	kWh/m			
60061333	J-2Y(St)CH 4x2x0.51	UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR D _{ca}	6.8	D _{ca} s2d2a1	433	0.120	47	27	120
60064235		UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR D _{ca} 500DP							
60061334		UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR D _{ca} 1000DW							
60061335	J-2Y(St)CH 2x(4x2x0.51)	UC300 HS24 Cat.5e SF/UTP 2x4P LSHF-FR D _{ca}	6.8/14.8	D _{ca} s2d2a1	866	0.240	115	54	240
60061336		UC300 HS24 Cat.5e SF/UTP 2x4P LSHF-FR D _{ca} 500DW							

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