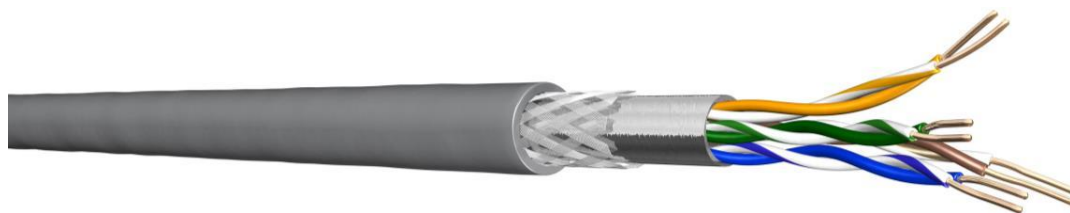


## UC300 HS24 Cat.5e SF/UTP Installation Cable



### 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-B.2  
IEEE 802.3at

### Flame resistance

LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034  
LSHF-FR(LSFROH): IEC 60332-1; IEC 60754-2; IEC 61034; IEC 60332-3-24

### 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, grey RAL 7035; duplex sheath: two cables parallel, separable LSHF-FR, grey RAL 7035; halogen free compound (SHF1) according IEC 60092-360.

### Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

## 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	

## Product order data

Product code	Cable type	Brand name	Outer diameter	Fire load		Weight	Copper content	Tensile force
			mm	MJ/km	kWh/m			kg/km
1000536	J-2Y(St)CH 4x2x0.51	UC300 HS24 Cat.5e SF/UTP 4P LSHF	6.4	433	0.120	47	27	120
1000546	J-2Y(St)CH 4x2x0.51	UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR						
1000493	J-2Y(St)CH 2x(4x2x0.51)	UC300 HS24 Cat.5e SF/UTP 2x4P LSHF	6.5/13.0	866	0.240	94	54	240

## Produkt Code Table

Product name	Produkt Code	PG Referenz Code	PG Artikel Nummer
UC300 HS24 C5e SF/UTP 4P LSHF	1000536	60009618	60009618
UC300 HS24 C5e SF/UTP 4P LSHF 50RW	1000536-00050RW	60009618	60024745
UC300 HS24 C5e SF/UTP 4P LSHF 100RW	1000536-00100RW	60009618	60013237
UC300 HS24 C5e SF/UTP 4P LSHF 250RW	1000536-00250RW	60009618	60024746
UC300 HS24 C5e SF/UTP 4P LSHF 500DW	1000536-00500DW	60009618	60011496
UC300 HS24 C5e SF/UTP 4P LSHF 1000DW	1000536-01000DW	60009618	60009201
UC300 HS24 C5e SF/UTP 4P LSHF 6000DW	1000536-06000DW	60009618	60017493
UC300 HS24 C5e SF/UTP 4P LSHF-FR 500DP	1000546-00500DP	60024665	60024665
UC300 HS24 C5e SF/UTP 2x4P LSHF 100DW	1000493-00100DW	60017490	60017490
UC300 HS24 C5e SF/UTP 2x4P LSHF 500DW	1000493-00500DW	60017490	60017491
UC300 HS24 C5e SF/UTP 2x4P LSHF 1000DW	1000493-01000DW	60017490	60017492