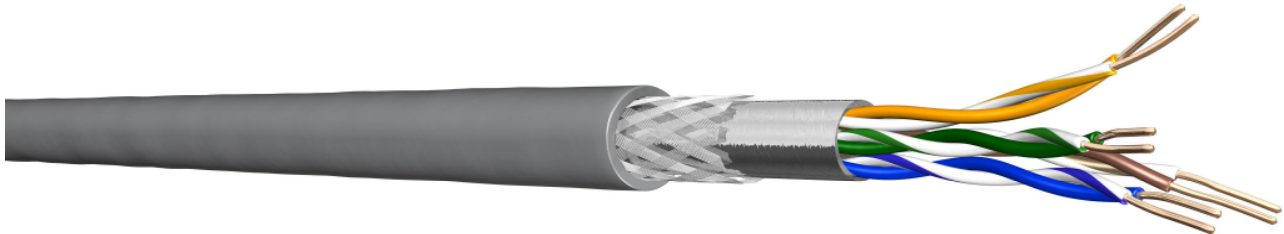


UC300 HS24 Cat.5e

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-C.2
IEEE 802.3at

Flame resistance

PVC: IEC 60332-1; Class Eca
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

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	PVC alt. LSHF, grey RAL 7035 Duplex sheath: two cables parallel, separable

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

UC300 HS24 Cat.5e

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

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			
			mm				kg/km		N
60013164	J-2Y(St)CY 4x2x0.51	UC300 HS24 Cat.5e SF/UTP 4P	6.4	Eca	474	0.132	46	27	120
60009618	J-2Y(St)CH 4x2x0.51	UC300 HS24 Cat.5e SF/UTP 4P LSHF		Eca	433	0.120	47		
60017479	J-2Y(St)CY 2x(4x2x0.51)	UC300 HS24 Cat.5e SF/UTP 2x4P	6.5/13.0	Eca	948	0.264	92	54	240
60017490	J-2Y(St)CH 2x(4x2x0.51)	UC300 HS24 Cat.5e SF/UTP 2x4P LSHF		Eca	866	0.240	94		

Produkt Code Table

Product Description	PG Reference Code	PG Part Number
UC300 HS24 C5e SF/UTP 4P PVC 500DP	60013164	60013164
UC300 HS24 C5e SF/UTP 2x4P PVC 500DP	60017479	60017479
UC300 HS24 C5e SF/UTP 4P LSHF	60009618	60009618
UC300 HS24 C5e SF/UTP 4P LSHF 50RW	60009618	60024745
UC300 HS24 C5e SF/UTP 4P LSHF 100RW	60009618	60013237
UC300 HS24 C5e SF/UTP 4P LSHF 250RW	60009618	60024746
UC300 HS24 C5e SF/UTP 4P LSHF 500DW	60009618	60011496
UC300 HS24 C5e SF/UTP 4P LSHF 1000DW	60009618	60009201
UC300 HS24 C5e SF/UTP 4P LSHF 6000DW	60009618	60017493
UC300 HS24 C5e SF/UTP 2x4P LSHF 100DW	60017490	60017490
UC300 HS24 C5e SF/UTP 2x4P LSHF 500DW	60017490	60017491
UC300 HS24 C5e SF/UTP 2x4P LSHF 1000DW	60017490	60017492

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