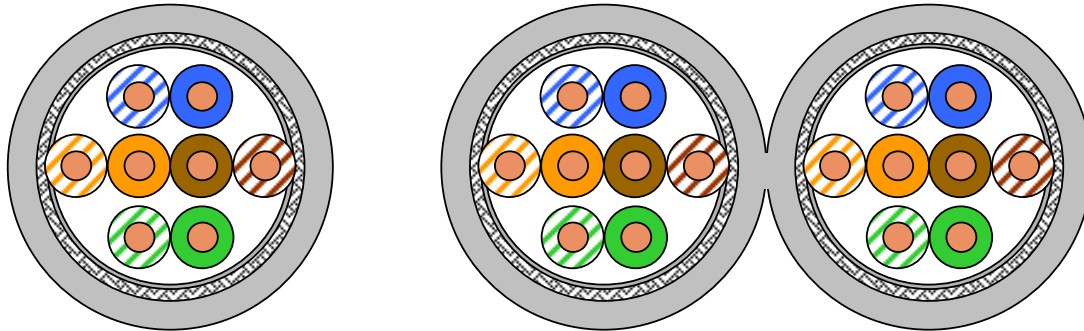




UC300 HS24 Cat.5e

SF/UTP



Application

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

Standards

EN 50173-1; EN 50288-2-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568-B.2

Flame resistance

PVC: IEC 60332-1
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034
LSHF-FR(LSFROH): additionally 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	PVC alt. LSHF, grey RAL 7035 Duplex sheath: two cables parallel, separable



UC300 HS24 Cat.5e

Mechanical properties

Bending radius	During installation	8 x Outer diameter
	Installed	4 x Outer diameter
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C
Maximum tensile load	During operation	-
	During installation	100 N

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
Characteristic impedance	(1-100 MHz)	(100 ± 15) 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

Electrical data (nominal)

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

Technical Data

Product name	Type	Colour	Outer dia-meter Mm	Fire load MJ/km	Weight kg/km	Delivery form	Material code		DCN no.	EI. No
UC300 HS24 4P PVC	SF/UTP	Grey RAL7035	6,3	444	41	D500	1000227	-00500DP	792141	1089243
UC300 HS24 4P LSHF	SF/UTP	Grey RAL7035	6,5	691	42	D500	1000536	-00500DP	792111	1089347
UC300 HS24 4P LSHF-FR	SF/UTP	Grey RAL7035	6,5	454	46	D500	1000546	-00500DP	792151	1089244
UC300 HS24 2x4P PVC	SF/UTP	Grey RAL7035	6,4x13,5	888	87	D500	1000245	-00500DP	792181	1089247
UC300 HS24 2x4P LSHF	SF/UTP	Grey RAL7035	6,5x14,0	1382	85	D500	1000493	-00500DP	792171	1089350
UC300 HS24 2x4P LSHF-FR	SF/UTP	Grey RAL7035	6,5x14,0	908	93	D500	1000499	-00500DP	792191	1089248