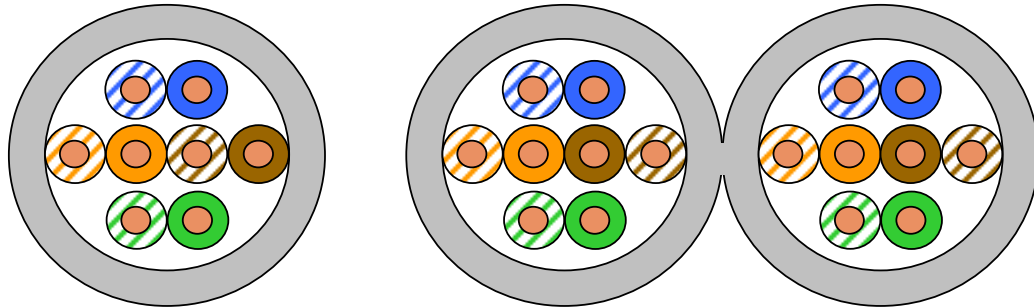




## UC300 24 Cat.5e

### U/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

EIA/TIA 568A;  
ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-5  
EN 50173; EN 50288-3-1

### Flame resistance

PVC: IEC 60332-1  
LSHF IEC 60332-1; IEC 60754-2; IEC 61034

### Construction

Conductor	bare copper wire Ø 0.5 mm (AWG24)
Insulation	Polyethylene, Ø 0.9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	PVC alt. LSHF (FRNC, LSOH), grey RAL 7035 Duplex sheath: two cables parallel, separable



## UC300 24 Cat.5e

### Mechanical properties

Minimum bending radius	During installation	8 x D
	Installed	4 x D
Temperature range	During operation	-20°C upto + 60°C
	During installation	0°C upto + 50°C
Maximum tensile load	During operation	-
	During installation	100 N

### Electrical properties

at 20°C

DC loop resistance	≤ 190 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	Nominal ≤ 535 ns/100m
Delay skew	Nominal ≤ 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core	

### Nominal transmission characteristics

at 20°C

f	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return loss
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB)
1	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6	56	53	50	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	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	19,8	41	38	21,2	18,2	28	25	20
125	22,3	40	37	17,7	14,7	26	23	19
155,5	24,2	38	35	13,8	10,8	24	21	
175	25,7	37	34	11,3	8,3	23	20	
200	27,5	36	33	8,5	5,5	22	19	
250	29,2	35	32	5,8	2,8	20	17	
300	32,0	34	31	2,0	-1,0	16	13	



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### Technical Data

Product name	Type	Colour	Outer diameter mm	Fire load MJ/km	Weight kg/km	Delivery form	Material code		DCN no.	El. no
UC300 24 4P PVC	U/UTP	Grey RAL7035	5,3	304	32	B305	1000182	-00305BR	790831	1089228
UC300 24 4P LSHF	U/UTP	Grey RAL7035	5,1	281	32	B305	1000008	-00305BR	790813	1089279
UC300 24 4P PVC	U/UTP	Grey RAL7035	5,3	304	32	D500	1000182	-00500DP	790841	1089230
UC300 24 4P LSHF	U/UTP	Grey RAL7035	5,1	281	30	D500	1000008	-00500DP	790811	1089344
UC300 24 2x4P PVC	U/UTP	Grey RAL7035	5,1x10,5	608	59	D500	1000249	-00500DP	790881	1089237
UC300 24 2x4P LSHF	U/UTP	Grey RAL7035	5,1x11,0	562	61	D500	1000353	-00500DP	790871	1089348