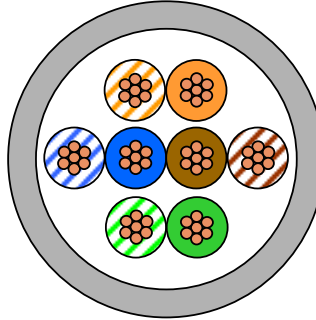




UC300 26 Cat 5e

U/UTP Patch cable



Application

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 2nd ed.; IEC 61156-6
EN 50173-1; EN 50288-3-2

Fire rating

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

Construction

Conductor	stranded bare copper wire 0,14mm ² (AWG 26)
Insulation	Polyethylene, Ø 0.8 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	PVC or LSHF (FRNC, LSOH)

Mechanical properties

Bending radius		8 x D (Installation) 4 x D (Installed)
Temperature range	during operation during installation	-20°C up to + 60°C 0°C up to + 50°C
Max tensile load	During installation Installed	100 N -



UC300 26 Cat 5e

Electrical properties

at 20°C

DC loop resistance	≤ 250 Ω /km
Resistance unbalance	≤ 3%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	nom. 50 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (1-100 MHz)	(100 ± 10) Ω
Nominal velocity of propagation	approx. 70 %
Propagation delay	Nominal ≤ 550 ns/100m
Delay skew	Nominal ≤ 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core and Core/Screen	

Transmission characteristics (nominal)

at 20°C

f	Attenuation	NEXT		PS-NEXT		ELFEXT		PS-ELFEXT		Return loss
(MHz)	(dB/10m)	(dB)		(dB)		(dB/10m)		(dB/10m)		(dB)
	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.
1	0.3	65	71	62	68	64	68	61	65	20,0
4	0.6	56	62	53	59	52	56	49	53	23,0
10	0.9	50	56	47	53	44	48	41	45	25,0
16	1.1	47	53	44	50	40	44	37	41	25,0
20	1.3	46	51	43	48	38	42	35	39	25,0
31.2	1.6	43	49	40	46	34	38	31	35	23,6
62.5	2.4	38	44	35	41	28	32	25	29	21,5
100	3.0	35	41	32	38	24	28	21	25	20,1
125	3.3		40		37		26		23	
155.5	3.6		38		35		24		21	
175	3.9		37		34		23		20	
200	4.1		36		33		22		19	
250	4.4		35		32		20		17	
300	4.8		34		31		16		13	



UC300 26 Cat 5e

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 26 4P PVC	U/UTP	Grey RAL7035	5,2	344	25	D500	1000006-00500DP	791551	1089227
UC300 26 4P PVC	U/UTP	Red RAL3000	5,2	344	25	D500	1000704-00500DP	791554	1080913
UC300 26 4P PVC	U/UTP	Green RAL6016	5,2	344	25	D500	1000705-00500DP	791555	1080914
UC300 26 4P PVC	U/UTP	Yellow RAL1021	5,2	344	25	D500	1000706-0500DP	791556	1080915
UC300 26 4P PVC	U/UTP	Blue RAL5012	5,2	344	25	D500	1000707-00500DP	791557	1080916
UC300 26 4P LSHF	U/UTP	Grey RAL7035	5,2	324	26	D500	1000010-00500DP	791571	1089260