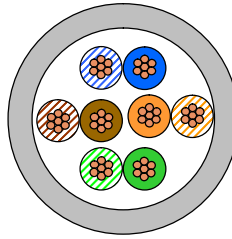


UC400 26 Cat.6

U/UTP Patch cable



Application

Work area and patch cord cable
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
 IEEE 802.5 16 MB;
 ISDN; TPDD; ATM

Standards

EIA/TIA 568B;
 ISO/IEC 11801 2nd ed.; IEC 61156-6
 EN 50173; EN 50288-6-2

Flame resistance

PVC: IEC 60332-1

Construction

Conductor	Stranded Cu-wire, tinned Ø 0.51 mm (AWG26)
Insulation	Polyethylene, Ø 0.98 mm
Identification	a-core blue, orange, green, brown b-core white with coloured stripe marking as corresponding a-core
Twisting	2 cores to the pair
Cable lay up	4 pairs to the cable core
Sheath	PVC RAL 7035

Mechanical properties

Minimum bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	stored	-20°C up to + 60°C
	under operation	0°C up to + 50°C

UC400 26 Cat.6

Electrical properties

at 20°C

DC loop resistance	≤ 195 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	Nom. 52 nF/km
Capacitance unbalance (pair to ground)	≤ 1000 pF/km
Characteristic impedance (1 - 100 MHz)	(100 ± 15) Ω
Characteristic impedance (100 - 250 MHz)	(100 ± 18) Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	≤ 427 ns/100m
Delay skew	≤ 12 ns/100m
Test voltage (DC, 1 min)	1000 V
Coupling attenuation	≥ 40 dB

Transmission characteristics acc. to Category 6

at 20°C

f (MHz)	Attenuation (dB/10m)	NEXT		PS-NEXT		ELFEXT		PS-ELFEXT		Return loss (dB)
		(dB)		(dB)		(dB/10m)		(dB/10m)		
	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.
1	0.3	74	74	71	71	67	69	64	66	20
4	0.6	65	66	62	63	55	57	52	54	23
10	0.9	59	60	56	57	47	49	44	46	25
16	1.1	56	57	53	54	43	45	40	42	25
20	1.3	55	56	52	53	41	43	38	40	25
31,2	1.6	52	53	49	50	37	39	34	36	24
62,5	2.3	47	48	44	45	31	33	28	30	22
100	3.0	44	45	41	42	27	29	24	26	20
125	3.3	43	44	40	41	25	27	22	24	20
156	3.7	42	43	39	40	23	25	20	22	19
175	4.0	41	42	38	39	22	24	19	21	18
200	4.4	40	41	37	38	21	23	18	20	18
250	4.9	38	39	35	36	20	22	17	19	17
300	5.2		38		35		21		18	
400	6.0		37		34		20		17	

Technical data

Product code	Designation	Brand name	Colour	Outer diameter	Fire load		Weight	Copper content	Tensile force
				mm	MJ/km	kWh/m			
1000014	LI-2YY 4x2x0,51L	UC400 26 Cat.6 U/UTP PVC 4P Patch	Grey	5.6	342	0.090	34	14	70