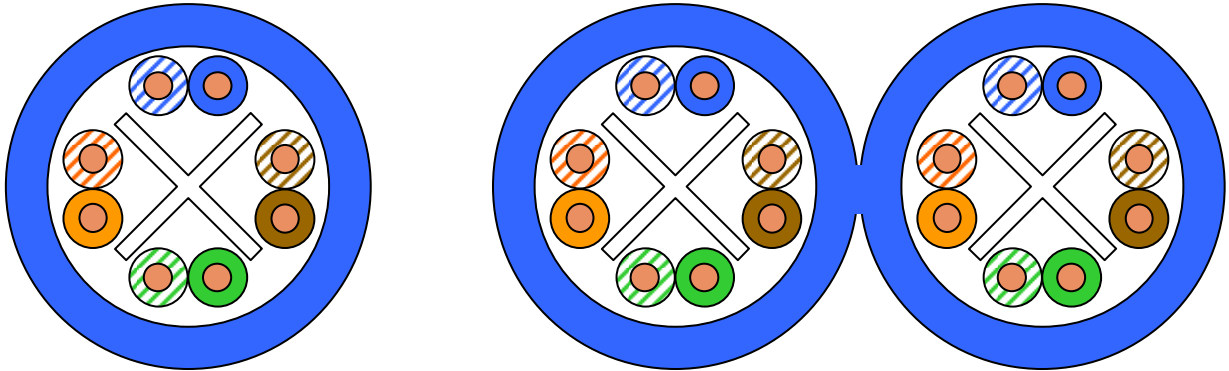


UC400 23 Cat.6

U/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

Standards

EIA/TIA-568-B.2-1 6/2002.
 ISO/IEC 11801 2nd ed.; IEC 61156-5
 EN 50173-1, EN 50288-6-1

Flame resistance

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

Construction

Conductor	bare copper wire Ø 0.57 mm (AWG23)
Insulation	Polyethylene, Ø 1.0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core non metallic cross separator (spline)
Sheath	PVC or LSHF (FRNC, LSOH), blue RAL 5012

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Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C up to + 60°C
	during installation	0°C up to + 50°C

Electrical properties

at 20°C

DC loop resistance	$\leq 176 \Omega / \text{km}$
Resistance unbalance	$\leq 2\%$
Insulation resistance (500 V)	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	$\leq 1500 \text{ pF/km}$
Characteristic impedance (1 - 100 MHz)	$(100 \pm 15) \Omega$
	$(100 \pm 22) \Omega$
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	

Transmission characteristics acc. to Category 6

at 20°C

f (MHz)	Attenuation		NEXT		PS-NEXT		ACR		PS-ACR		ELFEXT		PS-ELFEXT		Return loss
	(dB/100m)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB)	
	max.	Nom.	min.	nom.	min.	Nom.	Min.	Nom.	Min.	Nom.	min.	Nom.	min.	Nom.	min.
1	2.1	1.9	74	78	72	75	72.0	76.1	70.0	73.1	68	82	65	80	20
4	3.8	3.8	65	69	63	66	61.2	65.2	59.2	62.2	56	70	53	68	23
10	6.0	6.0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25
16	7.6	7.6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25
20	8.5	8.5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25
31.2	10.7	10.7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23.6
62.5	15.5	15.1	47	51	45	48	31.5	36.0	29.5	33.0	32	46	29	44	21.5
100	19.9	19.1	44	48	42	45	24.1	28.9	22.1	25.9	28	42	25	40	20.1
125	22.5	21.3	43	47	41	44	20.5	25.2	18.5	22.2	26	40	23	38	19.5
155.5	25.4	23.8	42	45	40	42	16.6	21.3	14.6	18.3	24	38	21	36	18.8
175	27.1	25.3	41	44	39	41	13.9	19.1	11.9	16.1	23	37	20	35	18.4
200	29.2	27.0	40	44	38	41	10.8	16.5	8.8	13.5	22	36	19	34	18.0
250	33.0	32.0	38	42	36	39	5.0	10.0	2.0	7.0	20	34	17	32	17.3
300		36.1		41		38		4.8		1.8		32		30	
400		41.7		39		36		-2.7		-5.7		30		28	

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Technical data

Product code	Length	Product name	Outer diameter mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
				MJ/km	kWh/m			
COU-11 020-5	500m	UC400 23 Cat.6 4P	6.2	358	0.099	39	20,5	100
COU-11 020-10	1000m	UC400 23 Cat.6 4P	6.2	358	0.099	39	20,5	100