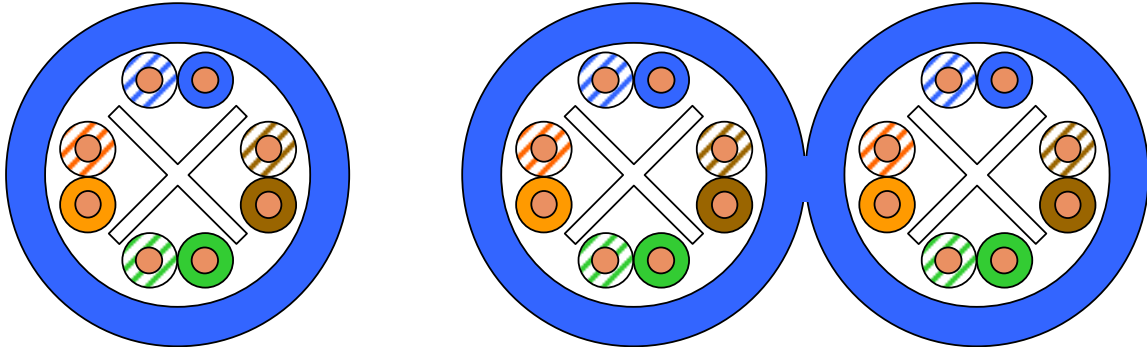




UC400 23 Cat.6

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
Max tensile load	during operation	-
	during installation	100N

Electrical properties

at 20°C

DC loop resistance	≤ 176 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 5000 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
(100 - 250 MHz)	(100 ± 22) 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 (MHz)	Attenuation		NEXT		PS-NEXT *)		ACR		PS-ACR		ELFEXT		PS-ELFEXT		Return loss	PSNEXT*) Multiunit
	(dB/100m)		(dB)		(dB)		(dB/100m)		(dB/100m)		(dB/100m)		(dB/100m)		(dB)	(dB)
	max.	Nom.	min.	nom.	min.	Nom.	Min.	Nom.	Min.	Nom.	min.	Nom.	min.	Nom.	min.	min.
1	2.1	1.9	74	78	72	75	72.0	76.1	70.0	73.1	68	82	65	80	20	77,3
4	3.8	3.8	65	69	63	66	61.2	65.2	59.2	62.2	56	70	53	68	23	68,3
10	6.0	6.0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25	62,3
16	7.6	7.6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25	59,2
20	8.5	8.5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25	57,8
31.2	10.7	10.7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23.6	54,9
62.5	15.5	15.1	47	51	45	48	31.5	36.0	29.5	33.0	32	46	29	44	21.5	50,4
100	19.9	19.1	44	48	42	45	24.1	28.9	22.1	25.9	28	42	25	40	20.1	47,3
125	22.5	21.3	43	47	41	44	20.5	25.2	18.5	22.2	26	40	23	38	19.5	45,8
155.5	25.4	23.8	42	45	40	42	16.6	21.3	14.6	18.3	24	38	21	36	18.8	44,4
175	27.1	25.3	41	44	39	41	13.9	19.1	11.9	16.1	23	37	20	35	18.4	43,7
200	29.2	27.0	40	44	38	41	10.8	16.5	8.8	13.5	22	36	19	34	18.0	42,8
250	33.0	32.0	38	42	36	39	5.0	10.0	2.0	7.0	20	34	17	32	17.3	41,3
300		36.1		41		38		4.8		1.8		32		30	-	-
400		41.7		39		36		-2.7		-5.7		30		28	-	-

*) The dual cable fulfill the additional PSNEXT requirement for multiunit cables given in EN50173-1 and 50288-6-1



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Technical Data

Product name	Type	Colour	Outer dia-meter mm	Fire load MJ/km	Weight kg/km	Delivery form	Material code		DCN no.	El. no
UC400 23 4P PVC	U/UTP	Blue RAL5012	6,5	358	41	D500	1000134	-00500DP	794141	1089275
UC400 23 4P LSHF	U/UTP	Blue RAL5012	7,0	807	46	D500	1000625	-00500DP	794111	1089276
UC400 23 2x4P PVC	U/UTP	Blue RAL5012	6,6x13,5	866	89	D500	1000927	-00500DP	799313	-
UC400 23 2x4P LSHF	U/UTP	Blue RAL5012	6,6x13,5	781	91	D500	1000629	-00500DP	799408	-