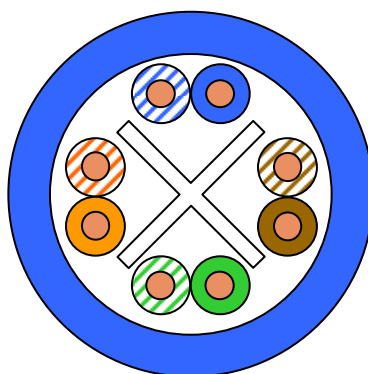


UC400 23 Cat.6

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

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	LSHF (LSOH), blue RAL 5012

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

UC400 23 Cat.6

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	

Transmission characteristics acc. to Category 6

at 20°C

f (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ELFEXT (dB/100m)		PS-ELFEXT (dB/100m)		Return loss (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	

Technical data

Product code	Designation	Product name	Outer diameter mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
				MJ/km	kWh/m			
1000625-00305BR	J-2YH 4x2x0.56	UC400 23 Cat.6 4P LSHF	6.2	329	0.091	40	18	100