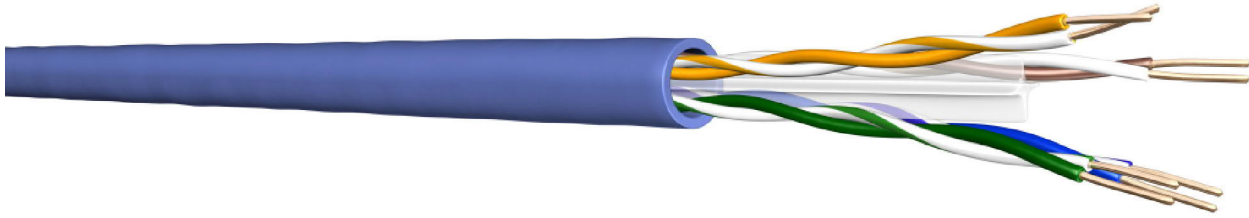


UC400 23 Cat.6

U/UTP AWG23/1 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
Power over Ethernet (PoE) / PoE+

Standards

EIA/TIA-568-C.2
ISO/IEC 11801.; IEC 61156-5
EN 50173-1, EN 50288-6-1
IEEE 802.3at

Flame resistance

LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

Construction

Conductor	bare copper wire Ø 0.56 mm (AWG23/1)
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 (FRNC, 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

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Electrical properties

at 20°C

DC loop resistance	154 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
Mean impedance 100 MHz	100 ± 5 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	
Coupling attenuation	≥ 40 dB

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)		ACRF (dB/100m)		PS-ACRF (dB/100m)		Return loss (dB)
	max.	Nom.	min.	nom.	min.	Nom.	Min.	Nom.	Min.	Nom.	min.	Nom.	min.	Nom.	
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	

UC400 23 Cat.6

Product order data

Product code	Designation	Product name	Outer diameter mm	Euro Class	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
					MJ/km	kWh/m			
60017496	J-2YH 4x2x0.56	UC400 23 Cat.6 4P LSHF	6.2	Eca	329	0.091	40	20,5	100

Product Code Table

Product Description	PG Reference Code	PG Part Number
UC400 23 C6 U/UTP 4P LSHF	60017496	60017496
UC400 23 C6 U/UTP 4P LSHF 305BP	60017496	60017497
UC400 23 C6 U/UTP 4P LSHF 305BR	60017496	60011059
UC400 23 C6 U/UTP 4P LSHF 500DP	60017496	60017498
UC400 23 C6 U/UTP 4P LSHF 500DW	60017496	60011061
UC400 23 C6 U/UTP 4P LSHF 1000DW	60017496	60011060

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