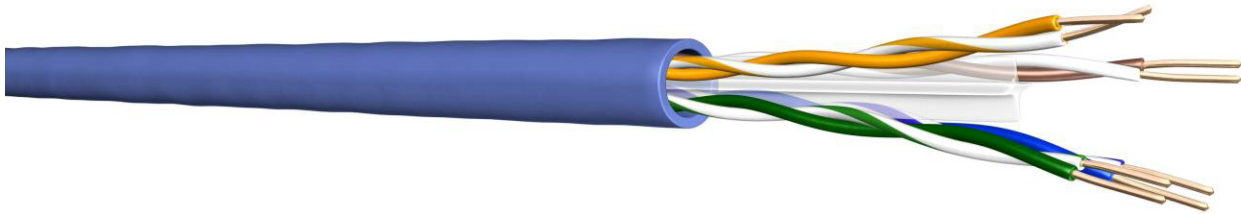


UC400 23 Cat. 6 U/UTP LSHF D64 C_{ca}

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) / Type 1-4

Standards

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

Flame resistance

EN 50399: Class C_{ca} s1a d1 a1
 LSHF-FR C_{ca} (FRNC-C): IEC60332-3-24; IEC 60332-1; 60754-2; IEC 61034;

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-FR (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	

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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			
60077095	J-2YH 2x4x2x0.56	UC400 23 C6 U/UTP 4P LSHF D64 Cca BU 250DW	5.9	C _{ca} s1ad1a1	504	0.14	44	20.5	100
60077082		UC400 23 C6 U/UTP 4P LSHF D64 Cca BU 305BR		C _{ca} s1ad1a1	504	0.14	44	20.5	100
60077083		UC400 23 C6 U/UTP 4P LSHF D64 Cca BU 500DW		C _{ca} s1ad1a1	504	0.14	44	20.5	100
60078193		UC400 23 C6 U/UTP 4P LSHF D64 Cca BU 1000DW		C _{ca} s1ad1a1	504	0.14	44	20.5	100