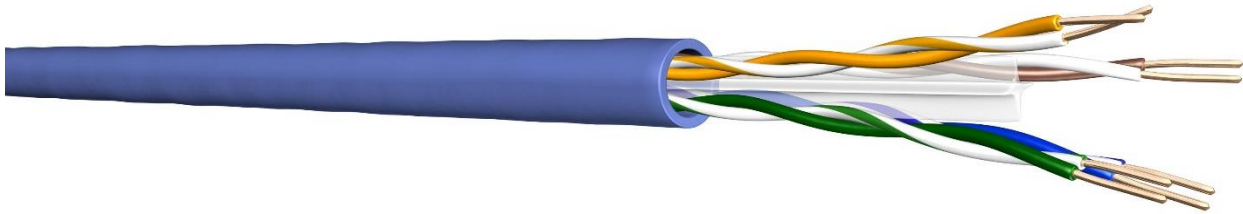


# UC400 23 Cat. 6 U/UTP LSHF D65 B2<sub>ca</sub>

## 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 B2<sub>ca</sub> s1a d1 a1  
LSHF-FR Cca (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			
60094525	J-2YH 2x4x2x0.56	UC400 23 C6 U/UTP 4P LSHF D65 B2 <sub>ca</sub> BU 305BR	6.1	B2 <sub>ca</sub> S1ad1a1	527	0.15	46	20.5	100
60080761		UC400 23 C6 U/UTP 4P LSHF D65 B2 <sub>ca</sub> BU 500DW		B2 <sub>ca</sub> S1ad1a1	527	0.15	46	20.5	100
60080772		UC400 23 C6 U/UTP 4P LSHF D65 B2 <sub>ca</sub> BU 1000DW		B2 <sub>ca</sub> S1ad1a1	527	0.15	46	20.5	100