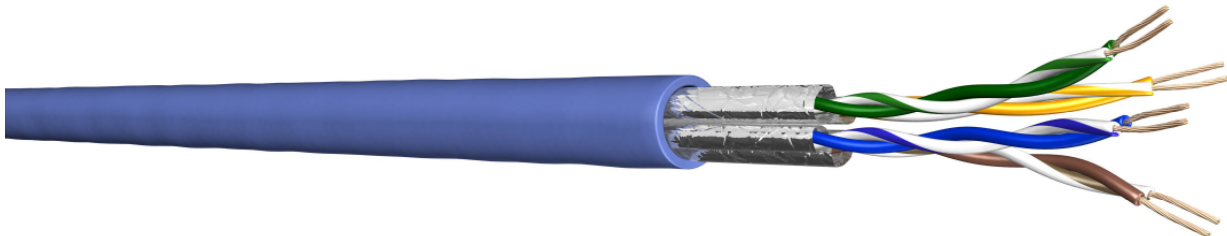


# UC400 S23 Cat.6 LSHF D<sub>ca</sub>

## U/FTP 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

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

### Flame resistance

EN 50399: Class D<sub>ca</sub> s2d2a1  
LSHF D<sub>ca</sub>: IEC 60332-1; IEC 60754-2; IEC 61034

### Construction

Conductor	bare copper wire, Ø 0.56 mm (AWG23/1)
Insulation	Foamskin Polyethylene, Ø 1.35 mm
Twisting	2 cores to the pair
Pair screen	<b>High Performance STP:</b> Al-laminated plastic foil, patented wrapping of two pairs each, drain wire AWG26 tinned
Cable lay up	2x2 pairs to the core
Sheath	LSHF D <sub>ca</sub> , blue RAL 5012 Duplex sheath: two cables parallel, separable

### Mechanical properties

Bending radius	without load	4 x D
	with load	8 x D
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

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### Electrical properties

at 20°C ± 5°C

Loop resistance		154 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 2000 MΩ *km	
Mutual capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km	
Mean characteristic impedance	100 MHz	100 ± 5	
Nominal velocity of propagation		Ca. 79 %	
Propagation delay		≤ 427 ns/100m	
Delay skew		≤ 12 ns/100m	
Test voltage	(DC, 1 min) core/ core and core/screen	1000 V	
Transfer impedance	at 1 MHz	≤ 50 mΩ / m	Grade 2
	at 10 MHz	≤ 100 mΩ / m	
	at 30 MHz	≤ 200 mΩ / m	
Coupling attenuation		55 dB	Type 2
Segregation classification acc. EN 50174-2		„C“	

### Electrical data (nominal)

acc. to Cat.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)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23

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### Product order data

Reference Code	Cable type	Brand name	Outer diameter Mm	CPR Euro Class	Fire load		Weight kg/km	Copper content	Tensile force
					MJ/km	kWh/m			N
60011511	J-02YS(St)H 4x2x0.56	UC400 S23 Cat.6 4P LSHF D <sub>ca</sub>	6.5	D <sub>ca</sub> s2d2a1	501	0.139	44	24	100
60015492	J-02YS(St)H 2x(4x2x0.56)	UC400 S23 Cat.6 2x4P LSHF D <sub>ca</sub>	6.5/13.0	D <sub>ca</sub> s2d2a1	1002	0.278	88	48	200

### Product Code Table

Product Description	PG Reference Code	PG Part Number
UC400 S23 Cat.6 U/FTP 4P LSHF D <sub>ca</sub>	60011511	60011511
UC400 S23 C6 U/FTP 4P LSHF D <sub>ca</sub> 100RW	60011511	60013265
UC400 S23 C6 U/FTP 4P LSHF D <sub>ca</sub> 305BR	60011511	60011510
UC400 S23 C6 U/FTP 4P LSHF D <sub>ca</sub> 500DW	60011511	60011508
UC400 S23 Cat.6 U/FTP 4P LSHF D <sub>ca</sub>	60011511	60011509
UC400 S23 C6 U/FTP 2x4P LSHF D <sub>ca</sub>	60015492	60015492
UC400 S23 C6 U/FTP 2x4P LSHF D <sub>ca</sub> 100DW	60015492	60015498
UC400 S23 C6 U/FTP 2x4P LSHF D <sub>ca</sub> 500DW	60015492	60015494
UC400 S23 C6 U/FTP 2x4P LSHF D <sub>ca</sub> 1000DW	60015492	60015496

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