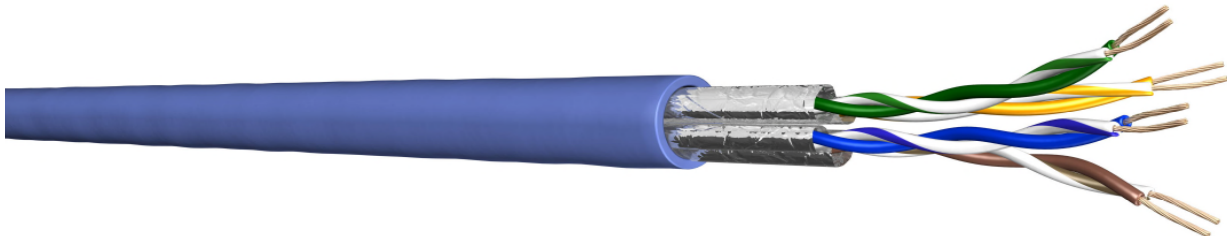


# UC400 S23 U/FTP Cat.6 C<sub>ca</sub>s1d1a1

## 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) / PoE+

### Standards

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

### Flame resistance

EN 50399: Class C<sub>ca</sub> s1d1a1  
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; 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	Al-laminated plastic foil, drain wire AWG26 tinned
Cable lay up	4 pairs (PiMF) to the core
Sheath	LSHF-FR C <sub>ca</sub> s1d1a1

### 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	Euro Class	Fire load		Weight kg/km	Copper content	Tensile force
					MJ/km	kWh/m			N
60075925	J-02YS(St)Y 4x2x0.56	UC400 S23 Cat.6 U/FTP LSHF-FR C <sub>ca</sub> s1d1 4P	7.6	C <sub>ca</sub> s1d1a1	595	0.18	62	24	100
60075926		UC400 S23 Cat.6 U/FTP LSHF-FR C <sub>ca</sub> s1d1 4P 500m							
60075927		UC400 S23 Cat.6 U/FTP LSHF-FR C <sub>ca</sub> s1d1 4P 1000m							