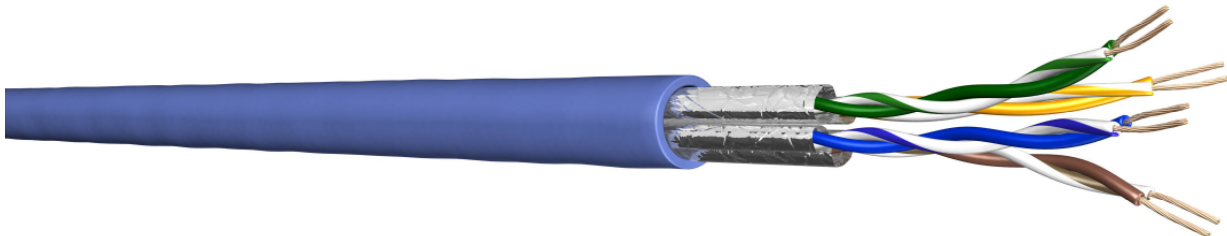


## UC400 S23 Cat.6 E<sub>ca</sub>

### 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

EN50399: E<sub>ca</sub>  
PVC: IEC 60332-1,

### 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	PVC 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	CPR Euro Class	Fire load		Weight	Copper content	Tensile force
					MJ/km	kWh/m			kg/km
60011497	J-02YS(St)Y 4x2x0.56	UC400 S23 Cat.6 4P	6.5	E <sub>ca</sub>	542	0.151	41	24	100

### Product Code Table

Product Description	PG Reference Code	PG Part Number
UC400 S23 C6 U/FTP 4P PVC	60011497	60011497
UC400 S23 C6 U/FTP 4P PVC 100RW	60011497	60015233
UC400 S23 C6 U/FTP 4P PVC 305DW	60011497	60026453
UC400 S23 C6 U/FTP 4P PVC 500DP	60011497	60015236
UC400 S23 C6 U/FTP 4P PVC 500 DW	60011497	60010675
UC400 S23 C6 U/FTP 4P PVC 1000 DW	60011497	60010674
UC400 S23 C6 U/FTP 4P PVC GY	60015238	60015238
UC400 S23 C6 U/FTP 4P PVC GY 305DW	60015238	60027214
UC400 S23 C6 U/FTP 4P PVC GY 500DW	60015238	60010959
UC400 S23 C6 U/FTP 4P PVC GY 1000DW	60015238	60010960

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