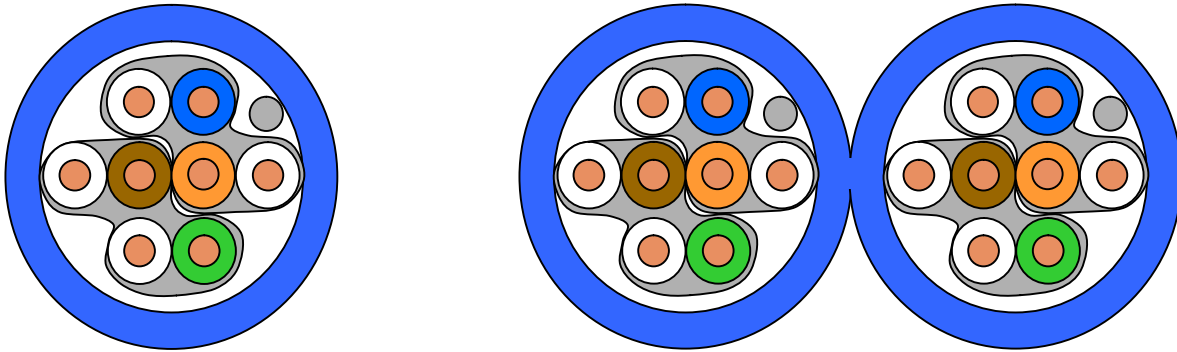


## UC400 S23 Cat.6

### 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-B.2  
IEEE 802.3at

### Flame resistance

PVC: IEC 60332-1  
LSHF(FRNC): 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	PVC alt. LSHF, blue RAL 5012 Duplex sheath: two cables parallel, separable

### Mechanical properties

Bending radius	without load	≥ 35 mm
	with load	≥ 70 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

## UC400 S23 Cat.6

### Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 176 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		v <sub>c</sub> "	

### 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

## UC400 S23 Cat.6

### Product order data

Product code	Cable type	Brand name	Outer diameter Mm	Fire load		Weight kg/km	Copper content	Tensile force
				MJ/km	kWh/m			N
1000282	J-02YS(St)Y 4x2x0.56	UC400 S23 Cat.6 4P	6.5	542	0.151	41	24	100
1000647	J-02YS(St)H 4x2x0.56	UC400 S23 Cat.6 4P LSHF		501	0.139	44		
1000272	J-02YS(St)Y 2x(4x2x0.56)	UC400 S23 Cat.6 2x4P	6.5/13.0	1084	0.302	82	48	200
1000922	J-02YS(St)H 2x(4x2x0.56)	UC400 S23 Cat.6 2x4P LSHF		1002	0.278	88		

### Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC400 S23 C6 U/FTP 4P PVC	1000282	60011497	60011497
UC400 S23 C6 U/FTP 4P PVC 100RW	1000282-00100RW	60011497	60015233
UC400 S23 C6 U/FTP 4P PVC 305DW	1000282-00305DW	60011497	60026453
UC400 S23 C6 U/FTP 4P PVC 500DP	1000282-00500DP	60011497	60015236
UC400 S23 C6 U/FTP 4P PVC 500 DW	1000282-00500DW	60011497	60010675
UC400 S23 C6 U/FTP 4P PVC 1000 DW	1000282-01000DW	60011497	60010674
UC400 S23 C6 U/FTP 4P PVC GY	1029781	60015238	60015238
UC400 S23 C6 U/FTP 4P PVC GY 305DW	1029781-00305DW	60015238	60027214
UC400 S23 C6 U/FTP 4P PVC GY 500DW	1029781-00500DW	60015238	60010959
UC400 S23 C6 U/FTP 4P PVC GY 1000DW	1029781-01000DW	60015238	60010960
UC400 S23 Cat.6 U/FTP 4P LSHF	1000647	60011511	60011511
UC400 S23 C6 U/FTP 4P LSHF 100RW	1000647-00100RW	60011511	60013265
UC400 S23 C6 U/FTP 4P LSHF 305BR	1000647-00305BR	60011511	60011510
UC400 S23 C6 U/FTP 4P LSHF 500DW	1000647-00500DW	60011511	60011508
UC400 S23 Cat.6 U/FTP 4P LSHF	1000647-01000DW	60011511	60011509
UC400 S23 C6 U/FTP 2x4P LSHF	1000922	60015492	60015492
UC400 S23 C6 U/FTP 2x4P LSHF 100DW	1000922-00100DW	60015492	60015498
UC400 S23 C6 U/FTP 2x4P LSHF 500DW	1000922-00500DW	60015492	60015494
UC400 S23 C6 U/FTP 2x4P LSHF 1000DW	1000922-01000DW	60015492	60015496

© PRYSMIAN GROUP 2010, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.