

UC400 S27 Cat.6

U/FTP AWG27/7 Patch Cable



Application

Work area and patch cord cable only!
 Not recommended for fix installation.
 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 50288-5-2
 ISO/IEC 11801; IEC 61156-6
 IEEE 802.3af / at / bt

Flame resistance

LSHF: IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	stranded bare copper wire \varnothing 0.42 mm (AWG27/7)	
Insulation	Foam Skin Polyethylene, \varnothing 0.98 mm	
Twisting	2 cores to the pair	
Cable lay up	4 pairs to the core	
Screen	STP: Al-laminated plastic foil, patented wrapping of two pairs each, stranded drain wire AWG26 tinned	
Sheath	LSHF(LSOH)	

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

UC400 S27 Cat.6

Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 340 Ω/km
Resistance unbalance		≤ 3%
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 Ω
Nominal velocity of propagation		Ca.79 %
Propagation delay		427 ns/100m
Delay skew		12 ns/100m
Test voltage		1000 V
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 mΩ/m
Coupling attenuation		≥ 55 dB

Electrical data (nominal)

acc. to Cat.6 (at 20°C)

F (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1.0	0.3	87	84	75	72	23
4.0	0.7	78	75	75	72	23
10.0	1.0	72	69	75	72	23
16.0	1.3	69	66	71	68	23
20.0	1.5	68	65	69	66	23
31.2	1.8	65	62	65	62	23
62.5	2.6	60	57	59	56	23
100.0	3.3	57	54	55	52	23
125.0	3.6	56	53	53	50	21
155.5	4.1	54	51	51	48	21
175.0	4.3	53	50	50	47	21
200.0	4.6	53	50	49	46	21
250.0	5.1	51	48	47	44	
300.0	5.6	50	47	45	42	
400.0	6.5	48	45	43	40	

UC400 S27 Cat.6

Technical data

Product code	Cable type	Brand name	Colour	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
					MJ/km	kWh/m			
1000605 1000606 1000607 1000608 1000609 1000611 1000612 1000613 1000615	Li-02YS(St)H 4x2x0.42L	UC400 S27 Cat.6 U/FTP 4P LSHF	orange black red green blue yellow grey 7032 white grey 7035	5.7	342	0.090	26	10	50

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC400 S27 C6 U/FTPp 4P LSHF YE	1000611	60011560	60011560
UC400 S27 C6 U/FTPp 4P LSHF YE 100RW	1000611-00100RW	60011560	60015452
UC400 S27 C6 U/FTPp 4P LSHF YE 500DW	1000611-00500DW	60011560	60015453
UC400 S27 C6 U/FTPp 4P LSHF YE 1000DW	1000611-01000DW	60011560	60011559
UC400 S27 C6 U/FTPp 4P LSHF GY	1000615	60011572	60011572
UC400 S27 C6 U/FTPp 4P LSHF GY 100RW	1000615-00100RW	60011572	60011571
UC400 S27 C6 U/FTPp 4P LSHF GY 500DW	1000615-00500DW	60011572	60011569
UC400 S27 C6 U/FTPp 4P LSHF GY1000DW	1000615-01000DW	60011572	60011570
UC400 S27 C6 U/FTPp 4P LSHF RD	1000607	60011564	60011564
UC400 S27 C6 U/FTPp 4P LSHF RD 100RW	1000607-00100RW	60011564	60015431
UC400 S27 C6 U/FTPp 4P LSHF RD 500DW	1000607-00500DW	60011564	60011563
UC400 S27 C6 U/FTPp 4P LSHF RD 1000DW	1000607-01000DW	60011564	60015434
UC400 S27 C6 U/FTPp 4P LSHF BU	1000609	60011566	60011566
UC400 S27 C6 U/FTPp 4P LSHF BU 100RW	1000609-00100RW	60011566	60015446
UC400 S27 C6 U/FTPp 4P LSHF BU 500DW	1000609-00500DW	60011566	60011565
UC400 S27 C6 U/FTPp 4P LSHF BU 1000DW	1000609-01000DW	60011566	60015448
UC400 S27 C6 U/FTPp 4P LSHF OG	1000605	60011562	60011562
UC400 S27 C6 U/FTPp 4P LSHF OG 1000DW	1000605-01000DW	60011562	60015425
UC400 S27 C6 U/FTPp 4P LSHF BK	1000606	60011575	60011575
UC400 S27 C6 U/FTPp 4P LSHF BK 100RW	1000606-00100RW	60011575	60011573
UC400 S27 C6 U/FTPp 4P LSHF BK 1000DW	1000606-01000DW	60011575	60015428
UC400 S27 C6 U/FTPp 4P LSHF GN	1000608	60011568	60011568
UC400 S27 C6 U/FTPp 4P LSHF GN 500DW	1000608-00500DW	60011568	60011567
UC400 S27 C6 U/FTPp 4P LSHF GN 100RW	1000608-00100RW	60011568	60015438
UC400 S27 C6 U/FTPp 4P LSHF GN 1000DW	1000608-01000DW	60011568	60015441

© PRYSMIAN GROUP 2009, 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.