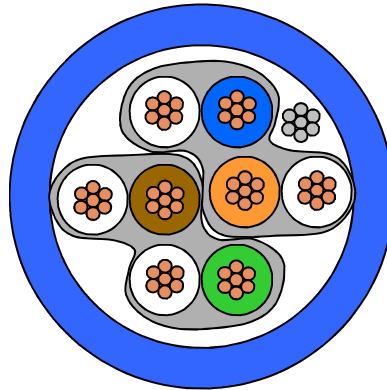


UC400 S27 Cat.6

U/FTP Patch Cable



Application

Work area and patch cord cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-5-2
ISO/IEC 11801; IEC 61156-6
TIA/EIA-568-B.2

Flame resistance

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

Construction

Conductor	stranded bare copper wire \varnothing 0.42 mm (AWG27)
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)	ELFEXT (dB/100m)	PS-ELFEXT (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

Product order data

Product code	Cable type	Brand name	Color	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]

© 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.