

UC500 S27 Cat.6A U/FTPp 4P LSHF

Data patch cable Cat.6A U/FTP



CABLE FEATURES

Prysmian patch cable for indoor use UC500 S27 Cat.6A U/FTPp 4P LSHF

- The cable is single-shielded with a high-quality foil shield.
- The 4-pair patch cable with 8 stranded copper conductors AWG27 is suitable for plug termination and connection to sockets, which can accomodate stranded conductors, for laying in buildings, in ducts and flushmounted
- The product exceeds the requirements of EN50173-1; EN50288-2-2, ISO/IEC11801; IEC61156-6 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; IEC60754-2; IEC61034; EN50399 and Euro fire class Eca.
- The product fulfills segregation class C according to EN50174 with a coupling attenuation of 55 dB.
- The cable is future-proof for all applications according to Class C, D, E and EA and suitable for the operation of PoE and PoE+ over a channel length of up to 60m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet, Gigabit Ethernet and 10Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 10Base-T, 10GBaseT or up to 10,000 Mbit/s.

Latest version of this data sheet is available for download: ProductFamily238915

GENERAL INFO

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

CERTIFICATIONS AND DESIGN STANDARDS





EN 50288-2-2 ISO/IEC 11801

EN 50173

IEC 60332-1-2

IEC 60754-2 IEC 61034-2

IEC 61156-6

Data communications patch cable shielded up to 100MHz Generic telecom cabling for customer premises Information technology - Generic cabling systems Single wire fire test Weighted Values of pH and Conductivity

Smoke Density

Datacom patch cables



CABLE CONSTRUCTION

Conductor category Class 2 = stranded

Conductor materialCopperConductor surfaceBareAWG size27

Core insulation material Polyethylene (PE)

Nominal diameter over insulation [mm] 1
Screen over stranding element Foil
Number of stranding elements 4

brown/white

Screen material Aluminium
Screen over stranding None

Material outer sheath Halogenfree polymer

Cable shape Round Nominal outer diameter [mm] 5.6

APPLICATION PROPERTIES

Operation temperature (min) [°C] -20 (max) [°C] 60 Installation temperature (min) [°C] 0 (max) [°C] 50

Bending radius (rule) Installation: 8 x outer diameter; Installed: 4 x outer diameter

FIRE PROPERTIES

Flame retardant In accordance with EN/IEC 60332-1-2

Halogen free acc. IEC/EN 60754-1/2 Low smoke acc. IEC/EN 61034-2

Reaction-to-fire class (acc. EN 13501-6)

Smoke development class (acc. EN 13501-6)

Euro class flaming droplets/particles (acc. EN 13501-6)

Not applicable

Euro class acidity (acc. EN 13501-6)

Not applicable

 Fire load [MJ/km]
 342

 DOP number
 1005782

MECHANICAL PROPERTIES

Cable weight [kg/km] 0

Copper weight [kg/km] 12

Max. tensile strength during installation [kN] 0.1

Nominal outer diameter [mm] 5.6



ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	6A (IEC)
NVP value [%]	79
Propagation delay (max) [ns/100m]	427
Delay skew (max) [ns/100m]	12
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	43
Loop resistance [Ohm]	340
Coupling attenuation [dB]	55
Insulation resistance [M Ω ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	100
Segregation classification (acc. EN 50174-2)	С



CAT 6A TRANSMISSION CHARACTERISTICS (AT 20°C)

Frequency (MHz)	Attenuation (dB/10 m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return Loss (dB)
1	0.4	87	84	87	84	75	72	23
4	0.7	78	75	77	74	75	72	23
10	1	72	69	71	68	75	72	23
16	1.3	69	66	68	65	71	68	23
20	1.5	68	65	66	63	69	66	23
31.2	1.8	65	62	63	60	65	62	23
62.5	2.6	60	57	57	54	59	56	23
100	3.3	57	54	54	51	55	52	23
125	3.6	56	53	52	49	53	50	21
155.5	4.1	54	51	50	47	51	48	21
175	4.3	54	51	50	47	50	47	21
200	4.6	53	50	48	45	49	46	21
250	5.2	51	48	46	43	47	44	20
300	5.7	50	47	44	41	45	42	20
400	6.6	48	45	41	38	43	40	18
500	7.4	47	44	40	37	41	38	18

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC500 S27 Cat.6A U/FTPp 4P LSHF BU	Blue	60015512	Drum	500	18
UC500 S27 Cat.6A U/FTPp 4P LSHF YE	Yellow	60015526	Drum	500	18
UC500 S27 Cat.6A U/FTPp 4P LSHF GY	Grey	60015516	Drum	500	36.4
UC500 S27 Cat.6A U/FTPp 4P LSHF GY	Grey	60015518	Drum	1,000	34.4
UC500 S27 Cat.6A U/FTPp 4P LSHF RD	Red	60015506	Drum	500	18

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