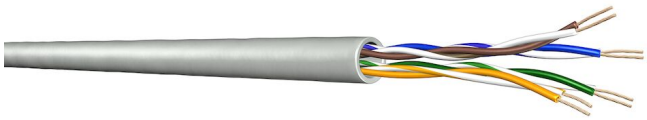
UC400 S27 Cat.6 U/FTPp 4P LSHF

Data patch cable Cat.6 U/FTP



CABLE FEATURES

Prysmian patch cable for indoor useUC400 S27 Cat.6 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 flush-mounted
- The product exceeds the requirements of EN50173-1; EN50288-5-2, 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
- 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, and E 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 and Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T or up to 1,000Mbit/s.

Latest version of this data sheet is available for download: ProductFamily238871

GENERAL INFO

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

CERTIFICATIONS AND DESIGN STANDARDS

RoHS PoE+

EN 50288-2-2	Data communications patch cable shielded up to 100MHz
ISO/IEC 11801	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
IEC 60332-1-2	Single wire fire test
IEC 60754-2	Weighted Values of pH and Conductivity
IEC 61034-2	Smoke Density
IEC 61156-6	Datacom patch cables

CABLE CONSTRUCTION

Conductor category	Class 2 = stranded
Conductor material	Copper
Conductor surface	Bare
AWG size	27
Core insulation material	Polyethylene (PE)
Nominal diameter over insulation [mm]	1
Screen over stranding element	Foil
Number of stranding elements	4
Identification of stranding elements	Core colors: blue/white; orange/white; green/white; brown/white
Screen material	Aluminium
Screen over stranding	None
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	5.6

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)	Eca
Smoke development class (acc. EN 13501-6)	Not applicable
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	1005986

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		

MECHANICAL PROPERTIES

Cable weight [kg/km]	0
Copper weight [kg/km]	10
Max. tensile strength during installation [kN]	0.1
Nominal outer diameter [mm]	5.6

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	6
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 [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	
Segregation classification (acc. EN 50174-2)	b

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC400 S27 Cat.6 U/FTPp 4P LSHF GY	Grey	60011572	Drum	1	34.4
UC400 S27 Cat.6 U/FTPp 4P LSHF GY	Grey	60011571	Coil	100	3.249
UC400 S27 Cat.6 U/FTPp 4P LSHF GY	Grey	60011569	Drum	500	18.247
UC400 S27 Cat.6 U/FTPp 4P LSHF GY	Grey	60011570	Drum	1,000	34.494

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CAT 6 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	0.3	87	84	87	84	75	72	23
4	0.6	78	75	77	74	75	72	23
10	0.9	72	69	71	68	75	72	23
16	1.2	69	66	68	65	71	68	23
20	1.3	68	65	67	64	69	66	23
31.2	1.6	65	62	63	60	65	62	23
62.5	2.4	60	57	58	55	59	56	23
100	3.1	57	54	54	51	55	52	23
125	3.4	56	53	53	50	53	50	21
155.5	3.9	54	51	50	47	51	48	21
175	4.2	54	51	50	47	50	47	21
200	4.5	53	50	48	45	49	46	21
250	5.1	51	48	46	43	47	44	
300	5.6	50	47	44	41	45	42	
400	6.6	48	45	41	38	43	40	