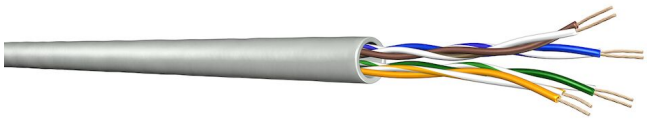
UC400 S27 Cat.6 U/FTPp 4P LSHF

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 and 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: ProductFamily238880

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	1005984

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]	100
Segregation classification (acc. EN 50174-2)	c

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 BU	Blue	60015446	Coil	100	3.246
UC400 S27 Cat.6 U/FTPp 4P LSHF BU	Blue	60015448	Drum	1,000	34.457
UC400 S27 Cat.6 U/FTPp 4P LSHF BU	Blue	60011565	Drum	500	18.228
UC400 S27 Cat.6 U/FTPp 4P LSHF YE	Yellow	60015452	Coil	100	3.247
UC400 S27 Cat.6 U/FTPp 4P LSHF YE	Yellow	60011559	Drum	1,000	34.474
UC400 S27 Cat.6 U/FTPp 4P LSHF YE	Yellow	60015453	Drum	500	18.237
UC400 S27 Cat.6 U/FTPp 4P LSHF GN	Green	60015438	Coil	100	3.242
UC400 S27 Cat.6 U/FTPp 4P LSHF GN	Green	60015441	Drum	1,000	34.42
UC400 S27 Cat.6 U/FTPp 4P LSHF GN	Green	60011567	Drum	500	18.21
UC400 S27 Cat.6 U/FTPp 4P LSHF OG	Orange	60015425	Drum	1,000	34.954
UC400 S27 Cat.6 U/FTPp 4P LSHF RD	Red	60015431	Coil	100	3.24
UC400 S27 Cat.6 U/FTPp 4P LSHF RD	Red	60015434	Drum	1,000	34.401
UC400 S27 Cat.6 U/FTPp 4P LSHF RD	Red	60011563	Drum	500	18.201
UC400 S27 Cat.6 U/FTPp 4P LSHF BK	Black	60011573	Coil	100	3.238
UC400 S27 Cat.6 U/FTPp 4P LSHF BK	Black	60015428	Drum	1,000	34.381
UC400 S27 Cat.6 U/FTPp 4P LSHF BK	Black	60011574	Drum	500	18.19

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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