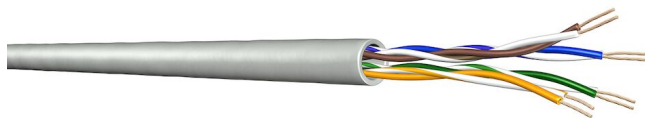


UC500 S27 Cat.6A U/FTPp 4P LSHF

Data patch cable Cat.6A U/FTP



CABLE FEATURES

Draka 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 accommodate stranded conductors, for laying in buildings, in ducts and flush-mounted
- 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, 1GBase-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; 100Base-T; 1000Base-T; 10GBase-T IEEE 802.5 16 MB; ISDN; TPDDI; ATM

CERTIFICATIONS AND DESIGN STANDARDS

RoHS



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 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

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)	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	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 [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	100
Segregation classification (acc. EN 50174-2)	c

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	60015518	Drum	1,000	34.4
UC500 S27 Cat.6A U/FTPp 4P LSHF GY	Grey	60015516	Drum	500	36.4
UC500 S27 Cat.6A U/FTPp 4P LSHF RD	Red	60015506	Drum	500	18

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