

UC900 SS27 Cat.7 S/FTPp 4P LSHF E_{ca}

Data patch cable Cat.7 S/FTP



CABLE FEATURES

Prysmian patch cable for indoor use UC900 SS27 Cat.7 S/FTPp 4P LSHF Eca

- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- 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; EN50288-4-2; 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, EA and F 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 10,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily238935](#)

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	Copper, tinned
Screen over stranding	Braiding
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	5.9

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]	349
DOP number	1003607

MECHANICAL PROPERTIES

Cable weight [kg/km]	39
Copper weight [kg/km]	24
Max. tensile strength during installation [kN]	0.1
Nominal outer diameter [mm]	5.9

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	7
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]	85
Insulation resistance [$M\Omega \cdot km$]	5,000
Transfer impedance at 10 MHz [mOhm/m]	10
Segregation classification (acc. EN 50174-2)	d

CAT 7 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	90	87	90	87	80	77	23
4	0.6	90	87	89	86	80	77	24
10	1	90	87	89	86	80	77	25
16	1.2	90	87	89	86	80	77	25
20	1.4	90	87	89	86	80	77	25
31.2	1.7	90	87	88	85	70	67	25
62.5	2.4	90	87	88	85	64	61	23
100	3.1	86	83	83	80	60	57	21
125	3.4	85	82	82	79	58	55	20
155.5	3.9	84	81	80	77	56	53	19
175	4.1	83	80	79	76	55	52	19
200	4.4	82	79	78	75	54	51	18
250	4.9	80	77	75	72	52	49	18
300	5.4	79	76	74	71	50	47	17
450	6.8	77	74	70	67	47	44	17
600	7.9	75	72	67	64	44	41	17
750	8.9	73	70	64	61	42	39	
900	9.8	72	69	62	59	41	38	
1000	10.4	71	68	61	58	40	37	

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC900 SS27 Cat.7 S/FTPp 4P LSHF BU	Blue	60016180	Coil	100	3.4
UC900 SS27 Cat.7 S/FTPp 4P LSHF BU	Blue	60016182	Drum	500	16.8
UC900 SS27 Cat.7 S/FTPp 4P LSHF BU	Blue	60016185	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF YE	Yellow	60011274	Drum	1	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF YE	Yellow	60016212	Coil	100	3.4
UC900 SS27 Cat.7 S/FTPp 4P LSHF YE	Yellow	60016215	Drum	500	16.8
UC900 SS27 Cat.7 S/FTPp 4P LSHF YE	Yellow	60016218	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF GYNP	Grey	60015525	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF GY	Grey	60011272	Drum	1	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF GY	Grey	60016206	Coil	25	0.9
UC900 SS27 Cat.7 S/FTPp 4P LSHF GY	Grey	60016203	Coil	50	1.7
UC900 SS27 Cat.7 S/FTPp 4P LSHF GY	Grey	60016191	Coil	100	3.4
UC900 SS27 Cat.7 S/FTPp 4P LSHF GY	Grey	60016195	Drum	500	16.8
UC900 SS27 Cat.7 S/FTPp 4P LSHF GY	Grey	60011271	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF GN	Green	60016169	Coil	100	3.4
UC900 SS27 Cat.7 S/FTPp 4P LSHF GN	Green	60016172	Drum	500	16.8

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC900 SS27 Cat.7 S/FTPp 4P LSHF GN	Green	60016175	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF RD	Red	60016159	Coil	100	3.4
UC900 SS27 Cat.7 S/FTPp 4P LSHF RD	Red	60016161	Drum	500	16.8
UC900 SS27 Cat.7 S/FTPp 4P LSHF RD	Red	60016163	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF BK	Black	60016148	Coil	100	3.4
UC900 SS27 Cat.7 S/FTPp 4P LSHF BK	Black	60016151	Drum	500	16.8
UC900 SS27 Cat.7 S/FTPp 4P LSHF BK	Black	60016153	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF WH	White	60016230	Drum	1,000	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF VT	Purple	60016221	Drum	1	36.2
UC900 SS27 Cat.7 S/FTPp 4P LSHF VT	Purple	60016224	Drum	1,000	36.2

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