

UC900 FLEX Cat.7 S/FTP 4P LSHFp 4P LSHF D_{ca}

Data patch cable Cat.7 S/FTP



Dca
CPR

CABLE FEATURES

Prysmian patch cable for indoor use UC900 FLEX Cat.7 S/FTPp 4P LSHF D_{ca}

- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- The 4-pair patch cable with 8 stranded copper conductors AWG26 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 D_{ca}.
- 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: [ProductFamily510824](#)

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	26
Core insulation material	Polyethylene (PE)
Nominal diameter over insulation [mm]	1
Screen over stranding element	Foil
Number of stranding elements	
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)	Dca
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]	420
DOP number	

MECHANICAL PROPERTIES

Cable weight [kg/km]	38
Copper weight [kg/km]	18
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]	460
Delay skew (max) [ns/100m]	12
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	43
Loop resistance [Ohm]	290
Coupling attenuation [dB]	85
Insulation resistance [$M\Omega \cdot km$]	5,000
Transfer impedance at 10 MHz [mOhm/m]	25
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
DR UC900 FLEX C7 S/FTP 4P LSHF BU	Blue	60109332	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF BU	Blue	60109045	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF BU	Blue	60109041	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF BU	Blue	60109046	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF BU	Blue	60109043	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF YE	Yellow	60109054	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF YE	Yellow	60109331	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF YE	Yellow	60109042	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF YE	Yellow	60109048	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF YE	Yellow	60109047	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108962	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60109330	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60109303	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108812	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108910	Drum	25	0.95
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108934	Coil	50	1.9

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP code	Packaging type	Standard packaging quantity	Gross weight
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108963	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108909	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108813	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60109040	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108884	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60109044	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF GN	Green	60108885	Drum	4,100	160
DR UC900 FLEX C7 S/FTP 4P LSHF OG	Orange	60108959	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF OG	Orange	60108922	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF OG	Orange	60109034	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF OG	Orange	60108958	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF RD	Red	60109374	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF RD	Red	60109036	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF RD	Red	60108960	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF RD	Red	60109039	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF RD	Red	60109038	Drum	1,000	39

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP code	Packaging type	Standard packaging quantity	Gross weight
DR UC900 FLEX C7 S/FTP 4P LSHF BK	Black	60109375	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF BK	Black	60109037	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF BK	Black	60108923	Coil	100	3.7
DR UC900 FLEX C7 S/FTP 4P LSHF BK	Black	60109035	Drum	500	19.9
DR UC900 FLEX C7 S/FTP 4P LSHF BK	Black	60108961	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF WH	White	60109333	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF WH	White	60109056	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF WH	White	60109050	Drum	1,000	39
DR UC900 FLEX C7 S/FTP 4P LSHF VT	Purple	60109049	Drum	1	39
DR UC900 FLEX C7 S/FTP 4P LSHF VT	Purple	60109055	Drum	1,000	39

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