

UC900 SS27 Cat.7

S/FTP Patch cable AWG27/7



Application

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

Standards

EN 50173-1; EN 50288-4-2
ISO/IEC 11801; IEC 61156-6

Flame resistance

PVC: IEC 60332-1
LSHF (FRNC): IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	stranded bare copper wire Ø 0.42 mm (AWG 27/7)	
Insulation	Foam Skin Polypropylen, Ø 0.98 mm	
Twisting	2 cores to the pair	
Pair screen	Al-laminated plastic foil	
Cable lay up	4 pairs (PiMF) to the core	
Screen	Copper braid, tinned	
Sheath	LSHF, color see "Technical data" Halogen free compound (SHF1) according IEC 60092-360.	

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 340 Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		≤ 427 ns/100m
Delay skew		≤ 12 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	10 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
Coupling attenuation		85 dB

Electrical data (nominal)

acc. to Cat.7 (at 20°C)

F (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1.0	0.3	90	87	90	80	77	23
4.0	0.6	90	87	89	80	77	24
10.0	1.0	90	87	89	80	77	25
16.0	1.3	90	87	89	76	73	25
20.0	1.4	90	87	89	74	71	25
31.2	1.8	90	87	88	70	67	25
62.5	2.6	90	87	87	64	61	23
100.0	3.2	87	84	84	60	57	21
125.0	3.6	85	82	81	58	55	20
155.5	4.0	84	81	80	56	53	19
175.0	4.3	83	80	79	55	52	19
200.0	4.6	82	79	77	54	51	18
250.0	5.1	81	78	76	52	49	18
300.0	5.6	80	77	74	50	47	17
450.0	6.9	77	74	70	47	44	17
600.0	7.9	75	72	67	44	41	17
750.0	8.7	73	70	64	42	39	
900.0	9.7	72	69	62	41	38	
1000,0	10,2	71	68	61	40	37	

Product order data

Product code	Cable type	Brand name	Colour	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
					MJ/km	kWh/m			
1001129 1001130 1001131 1001132 1001133 1001134 1001135	Li-02YSCH 4x2x0,42L PiMF LSHF	UC900 SS27 Cat.7 S/FTP 4PLSHF	orange black red green blue grey yellow	5,9	349	0,097	39	24	100

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC900 SS27 C7 S/FTPp 4P LSHF GY no pr.		60015521	60015521
UC900 SS27 C7 S/FTPp 4P LSHF GYnp 1000DW	1000387-01000DW	60015521	60015525
UC900 SS27 C7 S/FTPp 4P LSHF GYnp 1000DP	1000387-01000DP	60015521	60015527
UC900 SS27 C7 S/FTPp 4P LSHF OG np		60015510	60015510
UC900 SS27 C7 S/FTPp 4P LSHF OG	1001129	60016131	60016131
UC900 SS27 C7 S/FTPp 4P LSHF OG 100RW	1001129-00100RW	60016131	60016134
UC900 SS27 C7 S/FTPp 4P LSHF OG 500DW	1001129-00500DW	60016131	60016136
UC900 SS27 C7 S/FTPp 4P LSHF OG 1000DW	1001129-01000DW	60016131	60016141
UC900 SS27 C7 S/FTPp 4P LSHF BK no pr.		60015511	60015511
UC900 SS27 C7 S/FTPp 4P LSHF BK	1001130	60011273	60011273
UC900 SS27 C7 S/FTPp 4P LSHF BK 100RW	1001130-00100RW	60011273	60016148
UC900 SS27 C7 S/FTPp 4P LSHF BK 500DW	1001130-00500DW	60011273	60016151
UC900 SS27 C7 S/FTPp 4P LSHF BK 1000DW	1001130-01000DW	60011273	60016153
UC900 SS27 C7 S/FTPp 4P LSHF RD np		60015513	60015513
UC900 SS27 C7 S/FTPp 4P LSHF RD	1001131	60016156	60016156
UC900 SS27 C7 S/FTPp 4P LSHF RD 100RW	1001131-00100RW	60016156	60016159
UC900 SS27 C7 S/FTPp 4P LSHF RD 500DW	1001131-00500DW	60016156	60016161
UC900 SS27 C7 S/FTPp 4P LSHF RD 1000DW	1001131-01000DW	60016156	60016163
UC900 SS27 C7 S/FTPp 4P LSHF GN no pr.		60015515	60015515
UC900 SS27 C7 S/FTPp 4P LSHF GN		60016166	60016166
UC900 SS27 C7 S/FTPp 4P LSHF GN 100RW	1001132-00100RW	60016166	60016169
UC900 SS27 C7 S/FTPp 4P LSHF GN 500DW	1001132-00500DW	60016166	60016172
UC900 SS27 C7 S/FTPp 4P LSHF GN 1000DW	1001132-01000DW	60016166	60016175
UC900 SS27 C7 S/FTPp 4P LSHF BU no pr.		60015517	60015517
UC900 SS27 C7 S/FTPp 4P LSHF BU	1001133	60016178	60016178
UC900 SS27 C7 S/FTPp 4P LSHF BU 100RW	1001133-00100RW	60016178	60016180
UC900 SS27 C7 S/FTPp 4P LSHF BU 500DW	1001133-00500DW	60016178	60016182
UC900 SS27 C7 S/FTPp 4P LSHF BU 1000DW	1001133-01000DW	60016178	60016185
UC900 SS27 C7 S/FTPp 4P LSHF GY	1001134	60011272	60011272
UC900 SS27 C7 S/FTPp 4P LSHF GY 100RW	1001134-00100RW	60011272	60016191
UC900 SS27 C7 S/FTPp 4P LSHF GY 500DW	1001134-00500DW	60011272	60016195
UC900 SS27 C7 S/FTPp 4P LSHF GY 1000DP	1001134-01000DP	60011272	60016200
UC900 SS27 C7 S/FTPp 4P LSHF GY 1000DW	1001134-01000DW	60011272	60011271
UC900 SS27 C7 S/FTPp 4P LSHF GY 50RW	1001134-00050RW	60011272	60016203
UC900 SS27 C7 S/FTPp 4P LSHF GY 25RW	1001134-00025RW	60011272	60016206
UC900 SS27 C7 S/FTPp 4P LSHF YE	1001135	60011274	60011274
UC900 SS27 C7 S/FTPp 4P LSHF YE 100RW	1001135-00100RW	60011274	60016212
UC900 SS27 C7 S/FTPp 4P LSHF YE 500DW	1001135-00500DW	60011274	60016215
UC900 SS27 C7 S/FTPp 4P LSHF YE 1000DW	1001135-01000DW	60011274	60016218
UC900 SS27 C7 S/FTPp 4P LSHF VT		60016221	60016221
UC900 SS27 C7 S/FTPp 4P LSHF VT 1000DW	1001159-01000DW	60016221	60016224
UC900 SS27 C7 S/FTPp 4P LSHF WH		60016226	60016226
UC900 SS27 C7 S/FTPp 4P LSHF WH 1000DW	1016570-01000DW	60016226	60016230
UC900 SS27 C7 S/FTPp 4P LSHF BK 5000DW	1001130-05000DW	60011273	60025669