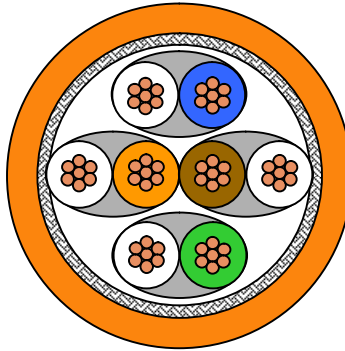


# UC900 SS27 Cat.7

## S/FTP Patch cable



### 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 Polyethylene, 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	PVC or LSHF, color see "Technical data"	

### 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

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## 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
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250) MHz	(100 ± 18) Ω
	(250 - 600) MHz	(100 ± 25) 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)	ELFEXT (dB/100m)	PS-ELFEXT (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	

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### Technical data

Product code	Cable type	Brand name	Colour	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force
					MJ/km	kWh/m			N
1001128	Li-02YSCY 4x2x0,42L PiMF	UC900 SS27 Cat.7 S/FTP 4P	blue	5,9	383	0,106	37	24	100
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		349	0,097	39		