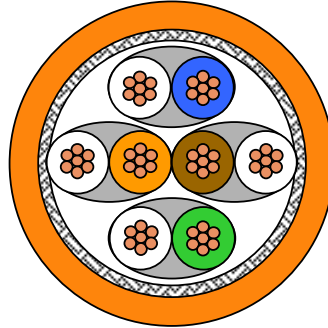




UC900 SS27 Cat.7

S/FTP



Application

Tertiary (horizontal)
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 61156-5

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 (approx. 35 % coverage)
Sheath	PVC or LSHF, color see "Technical data"



UC900 SS27 Cat.7

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
Maximum tensile load	during operation	-
	during installation	100 N

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	≤ 25 mΩ/m
	at 10 MHz	≤ 15 mΩ/m
	at 30 MHz	≤ 30 mΩ/m

Electrical data (nominal)

at 20°C

F (MHZ)	Attenuation (dB/100m)	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	



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Technical Data

Product name	Type	Colour	Outer dia-	Fire load	Weight	Delivery form	Material code		DCN no.	El. no
			meter	MJ/km	Kg/km					
			Mm							
UC900 S27 4P LSHF	S/FTP	Grey RAL7035	5,9	349	39	-	1001134	-	-	-
UC900 S27 4P LSHF	S/FTP	Red RAL3000	5,9	349	39	-	1001131	-	-	-
UC900 S27 4P LSHF	S/FTP	Green RAL6016	5,9	349	39	-	1001132	-	-	-
UC900 S27 4P LSHF	S/FTP	Yellow RAL1021	5,9	349	39	-	1001135	-	-	-
UC900 S27 4P LSHF	S/FTP	Blue RAL5012	5,9	349	39	-	1001133	-	-	-
UC900 S27 4P LSHF	S/FTP	Black RAL9011	5,9	349	39	-	1001130	-	-	-
UC900 S27 4P LSHF	S/FTP	Orange RAL2003	5,9	349	39	-	1001129	-	-	-