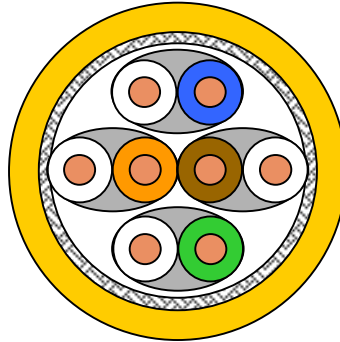




## UC 1000 SS23 Cat.7a

### S/FTP



### Application

Primary (Campus), Secondary (Riser), 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; ISO/IEC 11801; IEC61156-5;

### Fire rating

LSHF-FR(LSFROH): IEC 60754-2; IEC 61034, IEC 60332-3-24

### Construction

Conductor	Bare copper wire Ø 0.58 mm (AWG23)
Insulation	PE, Ø 1.4 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-laminated plastic foil around each pair
Overall screen	Copper braid, tinned Ø 6,7mm
Sheath	Low smoke, halogen free, fire retardant LSHF-FR (LSFROH), Yellow RAL1028

# UC 1000 SS23 Cat.7a

## Mechanical Properties

Bending radius	During operation	4 x outer diameter
	During installation	8 x outer diameter
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

DC loop resistance		≤ 133 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩxkm
Capacitance	at 800 Hz	Nom. 44 nF/km
Capacitance unbalance	Nominal (pair to ground)	≤ 800 pF/km
Mean Characteristic impedance	@ 100 MHz)	100 ± 5 Ω
Nominal velocity of propagation		0,75c
Propagation delay	Nominal	≤ 500 ns/100 m
Delay skew	Nominal	≤ 10 ns/100 m
Transfer impedance	at 1 MHz Nominal	≤ 5 mΩ /m
	at 10 MHz Nominal	≤ 5 mΩ /m
	at 30 MHz Nominal	≤ 10 mΩ /m
	at 100 MHz Nominal	≤ 20 mΩ /m

## Nominal Transmission characteristics

at 20°C

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	2,1	100	98		97	95	90	87
4	3,6	100	96	27	97	93	90	87
10	5,5	100	95	30	97	92	84	81
16	7,0	98	91	30	95	88	80	77
20	7,8	97	89	30	94	86	78	75
31.25	10,0	95	85	30	92	82	74	71
62.50	14,1	92	78	30	89	75	68	65
100	18,0	90	72	30	87	69	64	61
155	22,5	88	66	26	85	63	60	57
200	25,5	87	62	25	84	59	58	55
250	28,7	86	57	25	83	54	56	53
300	31,6	85	53	23	82	50	54	51
600	45,0	82	37	20	79	34	48	45
750	50,5	82	32	19	79	29	42	39
900	55,9	82	26	17	79	23	40	37
1000	58,5	82	24	16	79	21	35	32



## UC 1000 SS23 Cat.7a

### Technical Data

Product name	Type	Colour	Outer diameter mm	Fire load MJ/km	Weight kg/km	Delivery form	Material code		DCN no.	El. no
UC1000 SS23 4P LSHF-FR	S/FTP	Yellow RAL1028	7,8	589	65	D500	1003503	-00500DP	799529	1082609
UC1000 SS23 4P LSHF-FR	S/FTP	Yellow RAL1028	7,8	589	65	D1000	1003503	-01000DP	799509	-