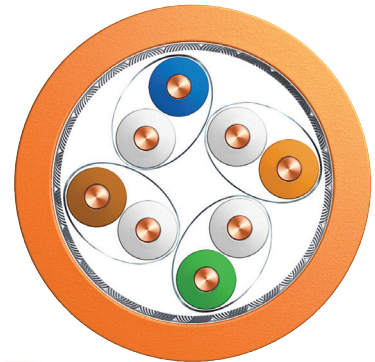




A brand of the  
**Prysmian**  
Group

## UC900 SS23 Cat.7

S/UFTP AWG23/1



### 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  
Power over Ethernet (PoE) / PoE+

### Construction

Conductor	bare copper wire, $\varnothing$ 0.56 mm (AWG 23/1)
Insulation	Foamskin PE, $\varnothing$ 1.38 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 or LSHF-FR, orange

### Standards

EN 50173-1; EN 50288-4-1  
ISO/IEC 11801; IEC 61156-5  
IEEE 802.3af

### Flame resistance

LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034  
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034





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### Mechanical properties

Temperature range	during operation	-20 to +60	°C
	during installation	0 to +50	°C
Min. bending radius	without load	4	x D
	with load	8	x D

### Electrical Properties

Loop resistance		154	Ω/km
Resistance unbalance	≤	2	%
Insulation resistance (500 V)	≥	2000	MΩ*m
Mutual capacitance at 800 Hz	nom.	43	nF/km
Capacitance unbalance (pair to ground)	≤	1500	pF/m
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	≤	5 mΩ/m Grade 1
	at 10 MHz	≤	5 mΩ/m Grade 1
	at 30 MHz	≤	10 mΩ/m Grade 1
Coupling attenuation	≥	85	dB Type 1
Segregation classification acc. EN 50174-2		„D”	

*Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.*



# UC900 SS23 Cat.7

S/UFTP AWG23/1

## Electrical Data (nominal) acc. to Cat.7 (at 20°C)

Frequency	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS-ACRF	Return Loss
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1	1,8	100	97	98	95	105	105	-
4	3,4	100	97	97	94	105	102	27
10	5,4	100	97	95	92	97	94	30
16	6,8	100	97	93	90	93	90	30
20	7,7	100	97	92	89	91	88	30
31,2	9,6	100	97	90	87	87	84	30
62,5	13,7	100	97	86	83	81	78	30
100	17,4	100	97	83	80	77	74	30
125	19,5	95	92	75	72	75	72	26
155,5	21,9	94	91	72	69	73	70	26
175	23,3	93	90	70	67	72	69	25
200	25,0	92	89	67	64	71	68	25
250	28,1	90	87	62	59	69	66	24
300	30,9	89	86	58	55	67	64	24
450	38,3	87	84	48	45	64	61	23
600	44,8	85	82	40	37	61	58	22
750	52,0	83	80	31	28	59	56	21
900	59,4	82	79	23	20	58	55	20
1000	63,1	80	77	17	14	57	54	20

## Technical data

Product code	Cable type	Brand name	Outer diameter	Fire load		Weight	Tensile force
				MJ/km	kWh/m		
			mm			kg/km	N
1001032	J-02YSCH 4x2x0,56 PiMF	UC900 SS23 Cat.7 S/FTP 4P LSHF	7,5	585	0,163	75	340
1001033	J-02YSCH 4x2x0,56 PiMF	UC900 SS23 Cat.7 S/FTP 4P LSHF-FR	7,5	585	0,163	75	340