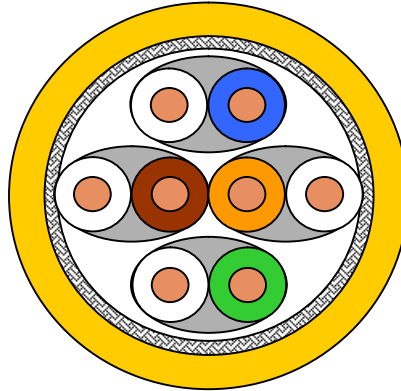


# UC1200 HS23 Cat.7<sub>A</sub>

## S/FTP



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE 802.5  
ISDN, TPDDI, ATM, CATV, Broadband Video

## Standards

EN 50173-1; ISO/IEC 11801; IEC 61156-5

## Flame resistance

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

## Construction

Conductor	bare copper wire Ø 0.58 mm (AWG 23)
Insulation	Foamskin Polyethylene, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Screen	Copper braid, tinned
Sheath	Halogen free, flame retardant sheathing material; LSHF, melon yellow RAL 1028

## Mechanical properties

Bending radius	without load	≥ 35 mm
	with load	≥ 70 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		≤ 135 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 5000 MΩ*km	
Mutual capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km	
Characteristic impedance (mean)	@ 100 MHz	(100 ± 5) Ω	
Nominal velocity of propagation		ca. 76 %	
Propagation delay		439 ns/100m	
Delay skew		12 ns/100m	
Test voltage	(DC, 1 min) core/core and core/screen	1000 V	
Transfer impedance	bei 1 MHz	≤ 12 mΩ /m	<b>Grade 2</b>
	bei 10 MHz	≤ 10 mΩ /m	
	bei 30 MHz	≤ 30 mΩ /m	
Coupling attenuation		≥ 80 dB	<b>Type 2</b>
Segregation classification acc. EN 50174-2			„D“

## Electrical data (nominal)

 acc. to Cat.7<sub>A</sub> (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,8	100	97	98	95	105	103	20
4,0	3,4	100	97	97	94	93	91	23
10,0	5,4	100	97	95	92	85	83	25
16,0	6,8	100	97	93	90	81	79	25
20,0	7,7	100	97	92	89	79	77	25
31,2	9,6	100	97	90	87	75	73	24
62,5	13,7	100	97	86	83	69	67	22
100,0	17,4	100	97	83	80	65	63	20
125,0	18,6	95	92	76	73	63	61	19
155,5	19,5	95	92	75	69	61	59	19
175,0	22,1	92	89	70	67	60	58	18
200,0	25,0	92	89	67	64	59	57	18
250,0	28,1	90	87	62	59	57	55	17
300,0	30,9	89	86	58	55	55	53	17
450,0	37,4	87	84	50	47	52	50	17
600,0	44,8	85	82	40	37	49	47	17
1000,0	58,4	82	79	24	21	45	43	17
1200,0	65,2	82	79	17	17	43	41	15

## Technical data

Product code	Cable type	Brand name	Outer diameter mm	Fire load MJ/km	Weight kg/km	Copper content	Tensile force N
1000672	J-02YSCH 4x2x0.58 PiMF	UC1200 HS23Cat.7 <sub>A</sub> S/FTP 4P LSHF	7.8	570	66	28	110