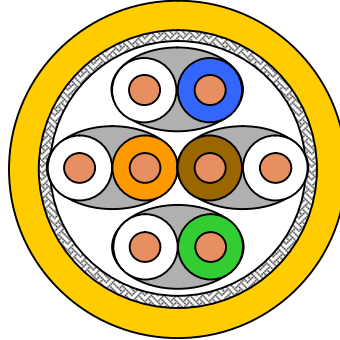


# UC1200 SS22 Cat.7<sub>A</sub>

## S/FTP



## Application

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

## Standards

EN 50173-1; ISO/IEC 11801; EN 50288-4-1; IEC61156-5; IEC61156-7

## Fire rating

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

## Construction

Conductor	Bare copper wire Ø 0.64 mm (AWG22)
Insulation	PE, Ø 1.6 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 7,0mm
Sheath	Fire retardant and halogen free LSHF-FR, melon yellow RAL 1028

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### Mechanical Properties

Bending radius	Installation	4 x D
	Installed	8 x D
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C

### Electrical Properties

at 20°C

DC loop resistance		≤ 110 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩxkm
Capacitance	at 800 Hz	Nom. 44 nF/km
Capacitance unbalance	(pair to ground)	≤ 800 pF/km
Mean Characteristic impedance	@ 100 MHz)	100 ± 5 Ω
Nominal velocity of propagation		0,75c
Propagation delay		≤ 500 ns/100 m
Delay skew		≤ 15 ns/100 m
Transfer impedance	at 1 MHz	5mΩ /m
	at 10 MHz	5 mΩ /m
	at 30 MHz	10 mΩ /m
	at 100 MHz	20 mΩ /m
Coupling attenuation		85 dB

### Nominal Transmission characteristics

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	1.7	100	97	98	95	105	103	20
4.0	3.3	100	97	97	94	93	91	23
10.0	5.1	100	97	95	92	85	83	25
16.0	6.5	100	97	94	91	81	79	25
20.0	7.3	100	97	93	90	79	77	25
31.2	9.1	100	97	91	88	75	73	24
62.5	12.8	100	97	87	86	69	67	22
100.0	16.3	100	97	84	81	65	63	20
125.0	18.2	95	92	77	74	63	61	19
155.5	20.3	95	92	75	72	61	59	19
175.0	21.5	92	89	70	67	60	58	18
200.0	23.0	92	89	69	66	59	57	18
250.0	25.8	90	87	64	61	57	55	17
300.0	28.3	89	86	61	58	55	53	17
450.0	34.7	87	84	52	49	52	50	17
600.0	40.2	85	82	45	42	49	47	17
1000.0	52.1	82	79	30	27	45	42	15
1200.0	57.1	82	79	25	22	43	40	14

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### Technical Data

Product code	Cable type	Brand name	Outer diameter mm	Fire load MJ/km	Weight kg/km	Copper content	Tensile force N
1003508	J-02YSCH 4x2x0.64 PiMF	UC1200 SS22 Cat.7A S/FTP 4P LSHF-FR	8.5	521	73	45	380