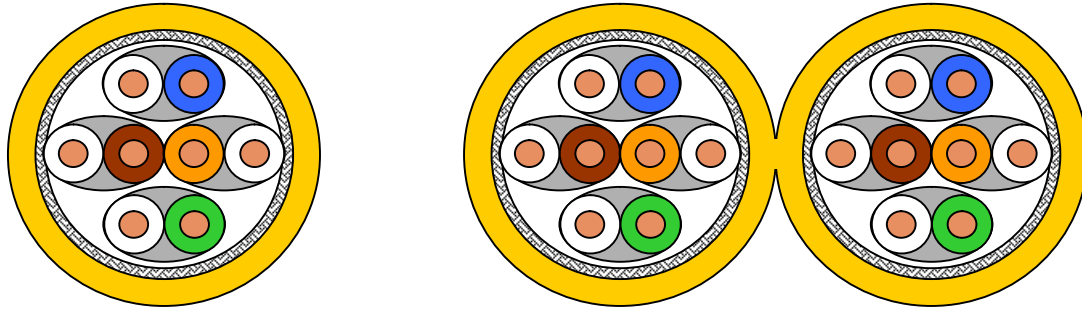


UC1500 HS22 Cat.7_A

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; IEC61156-5

Fire rating

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

Construction

Conductor	Bare copper wire Ø 0.62 mm (AWG22)
Insulation	Foam-Skin Polyethylene, Ø 1.5 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil around each pair
Cable lay up	4 pairs
Overall screen	Copper braid, tinned
Sheath	Halogen free, flame or fire retardant sheathing material; LSHF or LSHF-FR, melon yellow RAL 1028 Duplex design with divider

Mechanical Properties

Bending radius	Installation	≥ 35 mm
	Installed	≥ 70 mm
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C

UC1500 HS22 Cat.7_A

Electrical Properties

at 20°C

DC loop resistance		≤ 128 Ω/km	
Resistance unbalance		≤ 2%	
Insulation resistance	(500 V)	≥ 5000 MΩxkm	
Capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km	
Mean Characteristic impedance	@ 100 MHz	100 ± 5 Ω	
Nominal velocity of propagation		79%	
Propagation delay		450 ns/100 m	
Delay skew		15 ns/100 m	
Transfer impedance	bei 1 MHz	≤ 12 mΩ /m	Grade 2
	bei 10 MHz	≤ 10 mΩ /m	
	bei 30 MHz	≤ 30 mΩ /m	
Coupling attenuation		≥ 80 dB	Type 2
Segregation classification acc. EN 50174-2			„C“

Nominal Transmission characteristics

 acc. Cat.7_A 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	1.7	100	98	22	97	95	100	97
4	3.3	100	97	25	97	94	97	94
10	5.2	100	95	27	97	92	95	92
16	6.6	100	94	27	92	91	90	87
20	7.4	100	93	27	90	90	90	87
31.25	9.25	100	91	26	90	88	90	87
62.50	13,1	100	87	24	90	84	85	82
100	16.6	100	83	22	87	80	80	77
155	20.1	95	75	20	87	72	78	75
200	23.6	95	71	20	87	69	75	72
250	26.5	90	63	19	87	60	69	66
300	29.1	89	60	19	85	57	65	62
600	41,6	85	43	19	82	40	45	42
1000	54,0	83	29	19	80	26	40	37
1200	59,0	83	24	17	80	21	35	32
1400	63,7	81	17	15	78	14	30	27
1500	66,0	80	14	15	77	11	28	25

Technical Data

Product code	Cable type	Brand name	Outer diameter	Fire load	Weight	Copper content	Tensile force
			mm	MJ/km	kg/km		N
1025128	J-02YSCH 4x2x0.62 PiMF	UC1500 HS22 Cat.7 _A S/FTP 4P LSHF	8.3	647	62	35	140
1026412	J-02YSCH 2x4x2x0.62 PiMF	UC1500 HS22 Cat.7 _A S/FTP 2x4P LSHF	8.3/16.8	1294	124	70	280