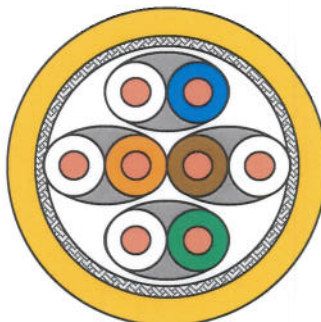


UC1500 SS22 Cat.7_A

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, SOHO-Cabling

Standards

EN 50173-1; ISO/IEC 11801; EN 50288-9-1; IEC61156-5; IEC61156-7

Fire rating

LSHF-FR (LSFROH): I IEC 60332-1; EC 60332-3-24; IEC 60754-2; IEC 61034

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	Halogen free, fire retardant sheathing material; LSHF-FR, melon yellow RAL 1028

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

800m



UC1500 SS22 Cat.7_A

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. 43 nF/km
Capacitance unbalance	(pair to ground)	≤ 1200 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	at 1 MHz	≤ 5 mΩ /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

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	23	97	95	100	97
4	3.3	100	97	26	97	94	97	94
10	5.1	100	95	28	97	92	95	92
16	6.5	100	94	28	92	91	90	87
20	7.3	100	93	28	90	90	90	87
31.25	9.1	100	91	27	90	88	90	87
62.50	12.8	100	87	25	90	84	85	82
100	16.3	100	83	23	87	80	80	77
155	20.3	95	75	21	87	72	78	75
200	23.0	95	72	21	87	69	75	72
250	25.8	90	64	20	87	61	69	66
300	28.3	89	61	20	85	58	65	62
600	40,2	85	45	20	82	42	45	42
1000	52,1	83	31	20	80	28	40	37
1200	57,1	83	26	18	80	23	35	32
1400	61,3	81	21	17	78	18	30	27
1500	64,1	80	16	17	77	13	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
1025088	J-02YSCH 4x2x0.64 PiMF	UC1500 SS22 Cat.7 _A S/FTP 4P LSHF-FR	8.5	674	73	45	150