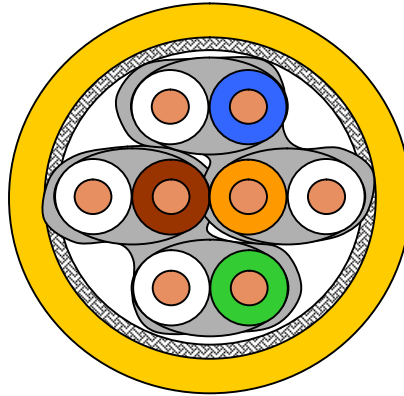




## UC1500 SS22 MULTIMEDIA

### 6FOILS 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; EN 50288-4-1  
ISO/IEC 11801;  
IEC 61156-5; IEC61156-7

### Flame resistance

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

### Construction

Conductor	bare copper wire $\varnothing$ 0.645 mm (AWG 22)
Insulation	Foamskin PE, $\varnothing$ 1.55 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil, <b>patented wrapping of two pairs each</b>
Cable lay up	2 x 2 pairs to the core
Screen	copper braid, tinned
Sheath	LSHF-FR melon yellow RAL 1028

### Mechanical properties

Bending radius	without load	$\geq 40$ mm
	with load	$\geq 80$ 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		Nom. 110 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	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250) MHz	(100 ± 10) Ω
	(250 - 600) MHz	(100 ± 15) Ω
	(600 - 1200) MHz	(100 ± 20) Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		≤ 427 ns/100m
Delay skew		≤ 9 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	2 mΩ/m
	at 30 MHz	2 mΩ/m
	at 100MHz	10 mΩ/m
Coupling attenuation		85 dB

### Electrical data (nominal)

acc. to Cat.7 (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	115	112	113	110	105	102	24
4.0	3.3	115	112	112	109	105	102	27
10.0	5.1	115	112	110	107	97	94	30
16.0	6.5	115	112	108	105	93	90	30
20.0	7.3	115	112	108	105	91	88	30
31.2	9.1	115	112	106	103	87	84	30
62.5	12.8	114	111	102	99	81	78	30
100.0	16.3	111	108	95	92	77	74	30
125.0	18.2	110	107	92	89	75	72	26
155.5	20.3	109	106	88	85	73	70	26
175.0	21.5	108	105	86	83	72	69	25
200.0	23.0	107	104	84	81	71	68	25
250.0	25.8	105	102	80	77	69	66	24
300.0	28.3	104	101	76	73	67	64	24
600.0	40.2	100	97	60	57	61	58	22
900.0	49.4	97	94	48	45	58	55	20
1000.0	52.1	96	93	44	41	57	54	20
1200.0	57.1	95	92	38	35	55	52	20
1500.0	64.1	94	91	30	27	53	50	19



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### Technical data

Product code	Cable type	Brand name	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force
				MJ/km	kWh/m			N
1001045	J-02YSCH 4x2x0.64 PiMF	UC1500 SS22 MULTIMEDIA 6F S/FTP 4P LSHF-FR	8.9	746	0.207	86	45	380