

Draka - UC1500 SS22 MULTIMEDIA S/FTP



## UC Data Cable - Draka Office Network Solution

Symmetrical 100  $\Omega$  data transmission cables from Universal Cable line UC.. acc. to ISO/IEC 11801, EN 50173 and EIA/TIA 568A are used for high speed data transmission, mainly in secondary and horizontal cabling in standardised, manufacturer-independent local networks (LAN), ranging from Token Ring, Ethernet, ISDN, TPDDI, Fast-Ethernet 100Base-TX to ATM and Gigabit-Ethernet 1000Base-T and CATV. All shielded cables of line UC400 and up are ready for 10 Gigabit Ethernet (IEEE802.3: 10GBase-T).

### 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; EN 50399: Class C<sub>ca</sub> s1a d1 a1



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### Technical Data

#### Construction

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

#### Mechanical properties

Minimum bending radius	Without load	≥ 30 mm
	With load	≥ 60 mm
Temperature range	During operation	-20°C up to +60°C
	During installation	0°C up to +80°C

#### Electrical properties at 20°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 100 MHz	10 mΩ/m
Coupling attenuation		85 dB

#### Electrical Data (nominal) acc. to Cat.7 (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return loss
MHZ	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB

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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

Outer diameter	8.9 mm
Fire load	746 MJ/km
	0.207 kWh/m
Weight	86 kg/km
Copper content	45
Tensile force	380 N

## Product variants & accessories

Art.-No.	Description
UC1500-SS22	Draka - UC1500 SS22 MULTIMEDIA S/FTP