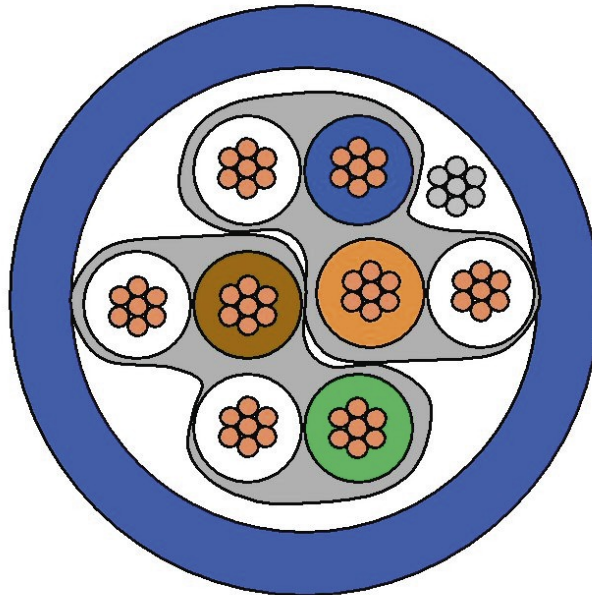


Draka - UC400 S27 Cat.6 U/FTP 4P LSHF, Color: zz



UC Data Cable - Draka Office Network Solution

Symmetrical 100 Ω 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

Work area and patch cord cable

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-5-2

ISO/IEC 11801; IEC 61156-6

TIA/EIA-568-C.2

Flame resistance

LSHF: IEC 60332-1; IEC 60754-2; IEC 61034



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Technical Data

Construction

Type	UC400 S27 Cat.6 U/FTP 4P LSHF
Conductor	stranded bare copper wire Ø 0.42 mm (AWG27/7)
Insulation	Foam-Skin Polyethylen, Ø 0.98 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	STP: Al-laminated plastic foil, patented wrapping of two pairs each, stranded drain wire AWG26 tinned
Sheath	LSHF(LSOH)

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C to +60°C
	during installation	0°C to +50°C

Electrical properties (at 20°C ±5°C)

Loop resistance		≤ 340 Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		ca. 79%
Propagation delay		427 ns/100m
Delay skew		12ns/100m
Test voltage		1000 V
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 mΩ/m
Coupling attenuation		≥ 55 dB

Electrical data (nominal): acc. to Cat.6 (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Return loss
MHZ	dB/10m	dB	dB	dB/100m	dB/100m	dB
1.0	0.3	87	84	75	72	23
4.0	0.7	78	75	75	72	23
10.0	1.0	72	69	75	72	23
16.0	1.3	69	66	71	68	23
20.0	1.5	68	65	69	66	23

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31.2	1.8	65	62	65	62	23
62.5	2.6	60	57	59	56	23
100.0	3.3	57	54	55	52	23
125.0	3.6	56	53	53	50	21
155.5	4.1	54	51	51	48	21
175.0	4.3	53	50	50	47	21
200.0	4.6	53	50	49	46	21
250.0	5.1	51	48	47	44	
300.0	5.6	50	47	45	42	
400.0	6.5	48	45	43	40	

Outerdiameter	5.7 mm
Fire load	342 MJ/km
	0.090 kWh/m
Weight	26 kg/km
Copper content	10
Tensile force	50 N

Colour = zz: GR (grey), GN (green), BL (blue), GE (yellow), RT (red), OR (orange), SW (black)

Product variants & accessories

Art.-No.	Description
UC400-S27-4P-zz	Draka - UC400 S27 Cat.6 U/FTP 4P LSHF, Color: zz