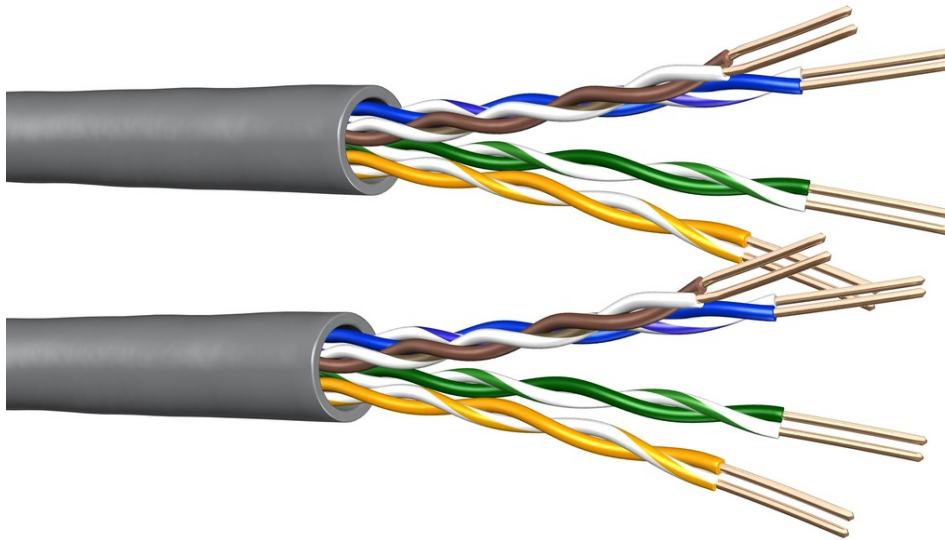


Draka - UC300 24 Cat.5e U/UTP 2x4P (LSHF)



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

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Standards

EIA/TIA 568A;
ISO/IEC 11801 2nd ed.; IEC 61156-5
EN 50173; EN 50288-3-1
IEEE 802.3at



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Flame resistance

LSHF IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

Technical Data

Construction

Conductor	bare copper wire Ø 0.5 mm (AWG24/1)
Insulation	Polyethylene, Ø 0.9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	LSHF (FRNC, LSOH), grey RAL 7035 Duplex sheath: two cables parallel, separable

Mechanical properties

Minimum bending radius	Without load	≥ 20 mm
	With load	≥ 40 mm
Temperature range	During operation	-20°C up to +60°C
	During installation	0°C up to +50°C

Electrical properties at 20°C

DC loop resistance		≤ 192 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	500 V	≥ 2000 MΩ*km
Capacitance	800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		approx. 67%
Propagation delay		Nominal ≤ 535 ns/100m
Delay skew		Nominal ≤ 20 ns/100m
Test voltage (DC, 1 min) Core/Core		1000 V
Coupling attenuation		≥ 40 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
1.0	1.9	71	68	69.1	66.1	68	65	20
4.0	3.7	62	59	58.3	55.3	56	53	23
10.0	6	56	53	50	47.0	48	45	25
16.0	7.6	53	50	45.4	42.5	44	41	25
20.0	8.5	51	48	42.5	39.5	42	39	25

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31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.3	25.3	32	29	22
100.0	19.8	41	38	21.2	18.2	28	25	20
125.0	22.3	40	37	17.7	14.7	26	23	19
155.5	24.2	38	35	13.8	10.8	24	21	
175.0	25.7	37	34	11.3	8.3	23	20	
200.0	27.5	36	33	8.5	5.5	22	19	
250.0	29.5	35	32	5.8	2.8	20	17	
300.0	32.0	34	31	2.0	-1.0	16	13	

Outer diameter	5.0/10.0 mm
Fire load	672 MJ/km
	0.186 kWh/m
Weight	72 kg/km
Copper content	35
Tensile force	160 N

Product variants & accessories

Art.-No.	Description
UC300-24-2x4P	Draka - UC300 24 Cat.5e U/UTP 2x4P (LSHF)