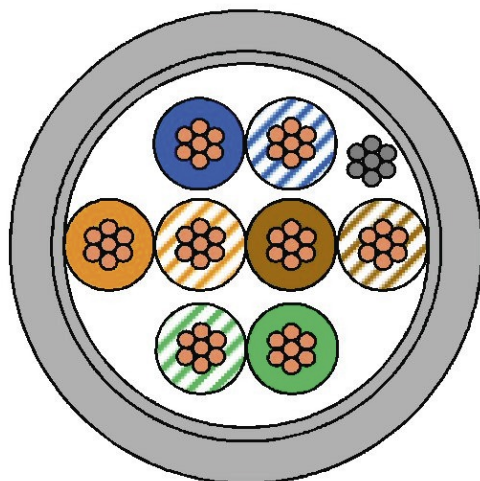


Draka - UC300 S26 Cat.5e F/UTP Color: zz



## 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

Work area and patch cord cable

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

IEEE 802.5 16 MB; ISDN; TPDDI; ATM



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## Technical Data

Standards	EN 50173-1
	EN 50288-2-2
	ISO/IEC 11801
	IEC 61156-6
	TIA/EIA-568-B.2
Flame resistance LSHF (FRNC)	IEC 60332-1
	IEC 60754-2
	IEC 61034

## Construction

Conductor	stranded bare copper wire $\varnothing$ 0.48 mm (AWG 26/7)
Insulation	Polyethylene, $\varnothing$ 0.95 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil, stranded drain wire AWG26 tinned
Sheath	PVC or LSHF(FRNC)

## Mechanical properties

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

## Electrical properties at 20°C $\pm$ 5°C

Loop resistance		$\leq 260 \Omega/\text{km}$
Resistance unbalance		$\leq 3\%$
Insulation resistance	(500 V)	$\geq 2000 \text{ M}\Omega/\text{km}$
Mutual capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair/ground)	$\leq 1500 \text{ pF}/\text{km}$
Mean characteristic impedance	100 MHz	$100 \pm 5 \Omega$
Nominal velocity of propagation		ca. 67%
Propagation delay		$\leq 535 \text{ ns}/100\text{m}$
Delay skew		$\leq 20 \text{ ns}/100\text{m}$
Test voltage		1000 V
Transfer impedance	at 1 MHz	$\leq 50 \text{ m}\Omega/\text{m}$
	at 10 MHz	$\leq 100 \text{ m}\Omega/\text{m}$
	at 30 MHz	$\leq 200 \text{ m}\Omega/\text{m}$
Coupling attenuation		$\geq 55 \text{ dB}$

## Draka - UC300 S26 Cat.5e F/UTP Color: zz

### Electrical Data (nominal) acc. to Cat.5e (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	71	68	68	65	23
4.0	0.6	62	59	56	53	23
10.0	0.9	56	53	48	45	23
16.0	1.1	53	50	44	41	23
20.0	1.3	51	48	42	39	23
31.2	1.6	49	46	38	35	23
62.5	2.4	44	41	32	29	23
100.0	3.0	41	38	28	25	23
125.0	3.3	40	37	26	23	23
155.5	3.6	38	35	24	21	23
175.0	3.9	37	34	23	20	
200.0	4.1	36	33	22	19	
250.0	4.4	35	32	20	17	
300.0	4.8	34	31	16	13	

Outer diameter	5.4 mm
Fire load	344 MJ/km
	0.096 kWh/m
Weight	25 kg/km
Copper content	12
Tensile force	55 N

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

### Product variants & accessories

Art.-No.	Description
UC300-S26zz	Draka - UC300 S26 Cat.5e F/UTP Color: zz