

Draka - UC300 26 Cat.5e U/UTP Colour: xx



## 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

### Standards

EIA/TIA 568A;

ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-6

EN 50173-1; EN 50288-3-2

### Flame resistance

PVC: IEC 60332-1

LSHF(FRNC): IEC 60332-1; IEC 60754-2; IEC 61034



**tde<sup>®</sup>** trans data elektronik GmbH

#### Headquarter address:

Lingener Str. 2

D-49626 Bippen/Ohrte

Tel.: +49 5435 9511 0

Fax.: +49 5435 9511 32

#### Sales office address:

Prinz-Friedrich-Karl-Str. 46

D-44135 Dortmund

Tel.: +49 231 914 36 99

Fax.: +49 231 914 31 29

info@tde.de | www.tde.de

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## Technical Data

### Construction

Type	UC300 26 Cat.5e U/UTP
Conductor	stranded bare copper wire Ø 0.48 mm (AWG 26)
Insulation	Polyethylene, Ø 0.9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	PVC or FRNC, grey RAL 7035

### 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		≤ 260 Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	500 V	≥ 2000 MΩ*km
Capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation		approx. 67%
Propagation delay		≤ 535 ns/100m
Delay skew		≤ 20 ns/100m
Test voltage	(DC, 1 min)	1000 V
Core/Core and Core/Screen		
Coupling attenuation		≥ 40 dB

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

F	Attenuation	NEXT	NEXT	PS-NEXT	PS-NEXT	ELFEXT	ELFEXT	PS-ELFEXT	PS-ELFEXT	Return loss
MHZ	dB/10m	dB min.	dB nom.	dB min.	dB nom.	dB/10m min.	B/10m nom.	dB/10m min.	dB/10m nom.	dB
1.0	0.3	65	71	62	68	64	68	61	65	20
4.0	0.6	56	62	53	59	52	56	49	53	23
10.0	0.9	50	56	47	53	44	48	41	45	25
16.0	1.1	47	53	44	50	40	44	37	41	25
20.0	1.3	46	51	43	48	38	42	35	39	25
31.2	1.6	43	49	40	46	34	38	31	35	24
62.5	2.4	38	44	35	41	28	32	25	29	22

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100.0	3.0	35	41	32	38	24	28	21	25	20
125.0	3.3		40		37		26		23	19
155.5	3.6		38		35		24		21	
175.0	3.9		37		34		23		20	
200.0	4.1		36		32		20		17	
300.0	4.8		34		31		16		13	

Outer diameter	5.2 mm
Fire load	324 MJ/km
	0.092 kWh/m
Weight	26 kg/km
Copper content	11
Tensile force	55 N

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

## Product variants & accessories

Art.-No.	Description
UC300-26xx	Draka - UC300 26 Cat.5e U/UTP Colour: xx