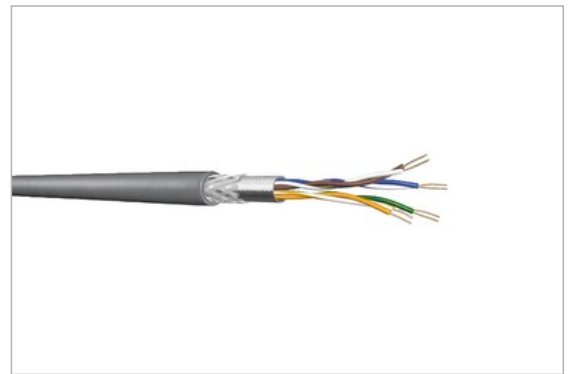


Description

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 50288-2-2
ISO/IEC 11801; IEC 61156-6
TIA/EIA-568-B.2

Flame resistance

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

Technical Data

Construction

Conductor	stranded bare copper wire Ø 0.48 mm (AWG 26/1)	
Insulation	Polyethylene, Ø 0.95 mm	
Twisting	2 cores to the pair	
Cable lay up	4 pairs to the core	
Screen	Al-laminated plastic foil + Copper braid, tinned	
Sheath	PVC or LSHF (FRNC)	

Mechanical properties

Minimum bending radius	Without load	≥ 25 mm
	With load	≥ 50 mm
Temperature range	During operation	-20°C up to +60°C
	During installation	0°C up to +50°C

Electrical properties at 20°C ± 5°C

Loop resistance	≤ 340 Ω/km
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Draka - UC300 HS26 Cat.5e SF/UTP Colour: zz

Resistance unbalance		≤ 2%
Insulation resistance	500 V	≥ 5000 MΩkm
Mutual capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair/ground)	≤ 1200 pF/km
Characteristic impedance	100 MHz	(100 ± 5) Ω
Nominal velocity of propagation		ca. 67%
Propagation delay		≤ 535 ns/100m
Delay skew		20 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	≤ 30 mΩ/m
	at 10 MHz	≤ 30 mΩ/m
	at 30 MHz	≤ 50 mΩ/m
Coupling attenuation		≥ 75 dB

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	5.7 mm
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Draka - UC300 HS26 Cat.5e SF/UTP Colour: zz

Fire load	369 MJ/km
	0.103 kWh/m
Weight	37 kg/km
Copper content	22.5
Tensile force	100 N

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

Art.-No.	Description
UC300-HS26zz	Draka - UC300 HS26 Cat.5e SF/UTP Colour: zz