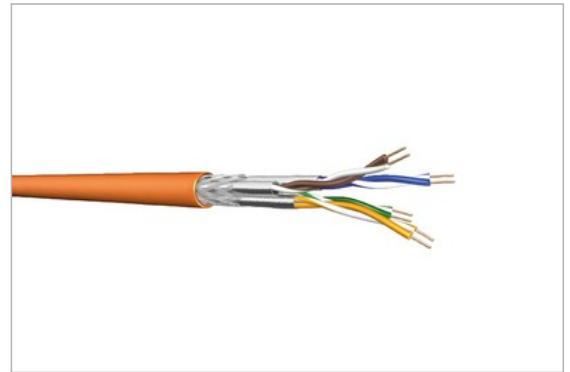


## Description

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; 10GBase-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Power over Ethernet (PoE) / Type 1-4

## Technical Data

Standards	EN 50173-1
	EN 50288-4-2
	ISO/IEC 11801
	IEC 61156-6
	IEEE 802.3af / at / bt
Flame resistance LSHF (FRNC)	IEC 60332-1
	IEC 60754-2
	IEC 61034
Reaction to fire (Euroclasses)	Class D <sub>ca</sub> s2 d2 a1

## Construction

Type	DRAKA UC900 FLEX CAT.7 S/FTP 4P LSHF
Conductor	stranded bare copper wire AWG 26/7
Insulation	Foam Skin Polyethylene, Ø 1,00 mm
Wire color code	blue/white; orange/white; green white; brown/white
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	Copper braid, tinned
Sheath	LSHF, Color see type table

**Mechanical properties**

Minimum bending radius	Without load	4 x D
	With load	8 x D
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		290 Ω /km
Resistance unbalance		≤ 3%
Insulation resistance	500 V	≥ 2000 MΩkm
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		460 ns/100m
Delay skew		12 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	25 mΩ/m
	at 10 MHz	25 mΩ/m
Coupling attenuation		80 dB

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

F	Attenuation	NEXT	ACR	ELFEXT	Return loss
MHZ	dB/10m	dB	dB/100m	dB/100m	dB
1,0					
4,0					24
10,0	1,0	90	89	80	25
16,0	1,3	90	89	76	25
20,0	1,4	90	89	74	25
31,2	1,8	90	88	70	25
62,5	2,6	90	87	64	23
100,0	3,2	87	84	60	21
155,5	4,0	84	80	56	19

**Draka - UC900 SS27 Cat.7 S/FTP 4P LSHF Colour:  
zz, Dca**

200,0	4,6	82	77	54	18
250,0	5,1	81	76	52	18
300,0	5,6	80	74	50	17
600,0	7,9	75	67	44	17
750,0	8,7	73	64	42	
900,0	9,7	72	62	41	
1000,0	10,2	71	61	40	

Outerdiameter	5.9 mm
Fire load	349 MJ/km
	0.097 kWh/m
Weight	39 kg/km
Copper content	24
Tensile force	100 N
Available colors (zz)	(GR) grey, (GN) green, (BL) blue, (GE) yellow, (RT) red, (OR) orange, (SW) black, (VI) magenta

Art.-No.	Description
UC900-SS27-4P-V2	Draka - UC900 SS27 Cat.7 S/FTP 4P LSHF Colour: zz, Dca