

S/FTP Crossover RJ45/RJ45 Hirose w. tde boot Cat.6 UC900 LSHF Length: xxxx



## tde - TP cable assemblies

The tde patch and trunk cables are manufactured completely at the German facility in Ohrte. Production processes at tde meet the latest standards. The patch cables and trunk cables are manufactured in many different configurations using highly automated processes. The range of products on offer encompasses the entire spectrum of connector types available on the market. To guarantee consistently top quality, only the best components from renowned vendors are used. All tde production staff have the necessary qualifications and education, and have been well trained in using specialist technical equipment.

Each cable application is subjected to a full test procedure and a final visual inspection to ensure that only 100% error-free products are shipped to the customer.

Products made by tde perform at least internationally accepted quality standards and norms. The quality management system is ISO 9001, ISO 14001 and TL9000 certified.

RJ45 Patch cord for the employment in the distribution frame or for the connection of terminals.

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## Technical Data

Cabletype	Draka UC900 SS27 Cat.7
Configuration	Crossover
Tests	100% electrical test on short-circuit and visual final inspection
	optional: Link Performance Tests
	QS-Managementsystem ISO 9001, ISO 14001 and TL 9000

xxxx = Length in cm

## Connectors

Type	RJ45 (TM21), with integreted dwell lever protection
Category	Cat.6
Shielding	shielded
Dimensions Boot	34 mm length
	13.4 mm width
Manufacturer	Hirose (connector)
	tde (boot)
QS-Management Systems Certification	ISO 9001
	ISO 14001
	TL 9000
YY - Boot color	BL - Blue
	GE - Yellow
	GN - Green
	GR - Grey
	OR - Orange
	RT - Red
	SW - Black
	VI - Violett

## TP Cable

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

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## 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

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62,5	2,6	90	87	64	23
100,0	3,2	87	84	60	21
155,5	4,0	84	80	56	19
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	

Outer diameter	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

## Product variants & accessories

Art.-No.	Description
SS-H6ZyyE-Nzzxxxx	S/FTP Crossover RJ45/RJ45 Hirose w. tde boot Cat.6 UC900 LSHF Length: xxxx
SS-H6Zyy-Nzzxxxx	S/FTP Patch cord RJ45/RJ45 Hirose w. tde boot Cat.6 UC900 LSHF Length: xxxx