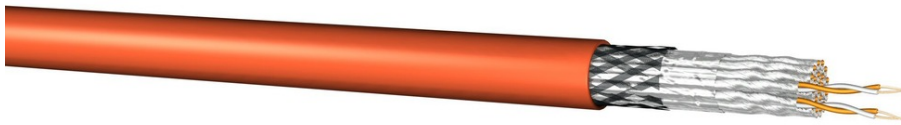


Draka - UC FUTURE COMPACT AWG23 Cat.7 S/FTP 24P LSHF-FR



## UC FUTURE - Draka Datacom Solution

The solution for Data Centre cabling. A dependable, fast and always available part of Draka Datacom Solution!

For this application Draka has developed the new UCFuture program which contains slim cable designs based on existing work area cable standards, which are perfect for zone cabling in data centres because of these characteristics:

- Up to 100% higher packing density in cable trays
- Fully compliant with established cable standards
- PIMF design to eliminate any Alien-Xtalk interferences
- Full 10GBase-T performance over a channel distance of 70m

Data centre cabling 10Gbit solution. Pair screened 100 Ohms cable especially for Zone Distribution Area and Equipment Distribution Area.



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## Draka - UC FUTURE COMPACT AWG23 Cat.7 S/FTP 24P LSHF-FR

### Technical Data

#### Construction

Type	UC FUTURE COMPACT AWG23/1 Cat.7 S/FTP 24P
Conductor	Bare copper wire, diameter 0.56 mm (AWG23)
Insulation	Foam-skin PP, diameter 1.4 mm
Twisting	2 insulated wires to the pair
Pair screening	Pet-Al foil around each pair
Stranding	3 layers of screened pairs (2+8+14)
Screen	Tinned copper braid, $\geq 65\%$ coverage
Sheath	LSHF

#### Application

IEEE 802.3: 10Base-T; 100Base-T; 10GBase-T, ISDN; xDSL

IEEE 802.5 16 MB; ISDN; TPDDI; ATM155Mbit/s

The conductor diameter is smaller compared to the standard installation cables. This leads to an increased attenuation and therefore the operating distance is reduced (80 m instead of 90 m installation cable in standard permanent link).

#### Standards

IEC 61156-6 work area cable

ISO/IEC 11801

EN 50173-5; EN 50288-4-2

IEEE 802.3af

#### Flame resistance

IEC 60332-1

LSHF-FR IEC 60332-3-24; IEC 60754-2; IEC 61034; EN 50399 Class D<sub>ca</sub>

#### Mechanical properties

Minimum bending radius	Without load	$\geq 100$ mm
	With load	$\geq 200$ mm
Temperature range	During operation	-20°C up to +60°C
	During installation	10°C up to +40°C

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

Loop resistance		$\leq 176$ $\Omega$ /km
Resistance unbalance		$\leq 2\%$
Test voltage	core/core	1000 V <sub>DC</sub> 1 min
	core/screen	1000 V <sub>DC</sub> 1 min
Capacitance	800 Hz	Nom. 43 nF/km
Capacitance unbalance		$\leq 1500$ pF/km
Impedance	1-100 MHz	100 $\Omega \pm 5$ $\Omega$

## Draka - UC FUTURE COMPACT AWG23 Cat.7 S/FTP 24P LSHF-FR

Nominal velocity of propagation		ca. 79%
Propagation delay	Nominal	< 450 ns/100m
Delay skew	Nominal	< 15 ns/100m
Insulation resistance	500 V	≥ 2000 MΩkm
Transfer impedance	bei 1 MHz	≤ 5 mΩ /m
	bei 10 MHz	≤ 5 mΩ /m
	bei 30 MHz	≤ 10 mΩ /m
Coupling attenuation		≥ 85 dB

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

F in	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	Return loss
MHZ	dB/90m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23
500.0	43.0	86	83	43	40	61	58	22
600.0	44.8	85	82	40	37	60	57	22

### Technical Data

Designation	J-09YS(ST)CH
Outer diameter	18 mm
Fire load	3120 MJ/km
Fire load	0.87 kWh/m
Reaction to Fire	D <sub>ca</sub> -s2, d2, a1
Weight	330 kg/km
Copper content	165 kg/km
Tensile force	840 N

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## Product variants & accessories

Art.-No.	Description
UC-COMPACT23X24P	Draka - UC FUTURE COMPACT AWG23 Cat.7 S/FTP 24P LSHF-FR