

Draka - UC FUTURE COMPACT AWG26 Cat.7 S/FTP 3x4P LSHF



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



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Technical Data

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 (60 m instead of 90 m installation cable in standard permanent link).

Standards

IEC 61156-6 work area cable

ISO/IEC 11801 2nd ed.

EN 50173-5

EN 50288-4-2

Flame resistance

IEC 60332-1, IEC 60754-2, IEC 61034; EN 50399 Class D_{ca}

Construction

Conductor	Bare copper wire, Ø 0.4 mm (AWG26)
Insulation	Foam skin PP, diameter 1.0 mm (+/- 0.05)
Twisting	2 cores to the pair
Pair screening	Al-laminated plastic foil
Sheath	LSHF orange RAL 2003
Stranding	3 bundles with 4 foiled pairs (blue, orange, green and brown)

Mechanical properties

Bending radius	Installation	8x Outer diameter
	Installed	4x Outer diameter
Temperature range	During operation	-20°C up to +60°C
	During installation	10°C up to +40°C

Electrical properties at 20°C ± 5°C

Loop resistance		≤ 176 Ω/km
Resistance unbalance		≤ 2%
Test voltage	core/core	1000 V _{DC} 1 min
	core/screen	1000 V _{DC} 1 min
Mutal capacitance	800 Hz	Nom. 43 nF/km
Capacitance unbalance		≤ 1500 pF/km
Mean impedance	100 MHz	100 ± 5
Nominal velocity of propagation		ca. 79%
Propagation delay	Nominal	< 450 ns/100m

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Delay skew	Nominal	< 15 ns/100m
Insulation resistance	500 V	≥ 2000 MΩkm
Transfer impedance	at 1 MHz	≤ 50 mΩ /m
	at 10 MHz	≤ 100 mΩ /m
	at 30 MHz	≤ 200 mΩ /m
	at 100 MHz	≤ 1000 mΩ /m
Coupling attenuation		≥ 55 dB

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

F	Atten- uation	NEXT	PS- NEXT	ELFEXT	PS- ELFEXT	Return loss
MHZ	dB/10m	dB	dB	dB/100m	dB/100m	dB
1.0	0.3	90	87	80	77	23
4.0	0.6	90	87	80	77	24
10.0	1.0	90	87	80	77	25
16.0	1.3	90	87	76	73	25
20.0	1.4	90	87	74	71	25
31.2	1.8	90	87	70	67	25
62.5	2.6	90	87	64	61	23
100.0	3.2	87	84	60	57	21
125.0	3.6	85	82	58	55	20
155.5	4.0	84	81	56	53	19
175.0	4.3	83	80	55	52	19
200.0	4.6	82	79	54	51	18
250.0	5.1	81	78	52	49	18
300.0	5.6	80	77	50	47	17
450.0	6.9	77	74	47	44	17
600.0	7.9	75	72	44	41	17

Technical Data

Type	3x4x2x0.4 PiMF
Outer diameter	12.5 mm
Fire load	1636 MJ/km
Fire load	0.453 kWh/m
Weight	145 kg/km
Copper content	xx kg/km
Tensile force	300 N

Product variants & accessories

Art.-No.	Description
UC-COMPACT26X3x4P	Draka - UC FUTURE COMPACT AWG26 Cat.7 S/FTP 3x4P LSHF