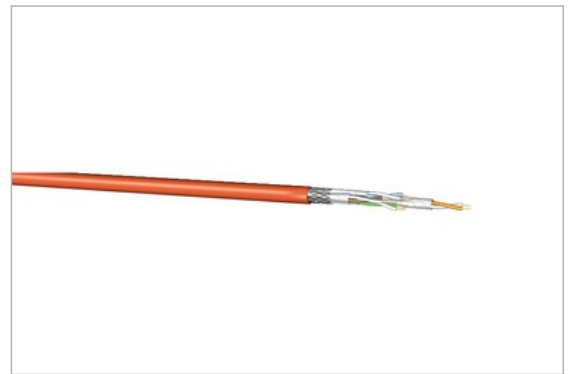


Description

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.

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

PVC IEC 60332-1

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

Construction

Conductor	Bare copper wire, diameter 0.4 mm (AWG26)
Insulation	Foam-skin PP, diameter 1.0 mm (+/-0.05)
Twisting	2 cores to the pair
Pair screening	Pet-Al foil around each pair
Screen	Tinned copper braid approx. 60% coverage

Sheath	LSHF, orange RAL 2003
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Mechanical properties

Minimum bending radius	Without load	45.6 mm
	With load	22.8 mm
Temperature range	During operation	-20°C up to +60°C
	During installation	10°C up to +40°C

Electrical properties at 20°C

Loop resistance		$\leq 280 \Omega/\text{km}$
Resistance unbalance		$\leq 2\%$
Test voltage	core/core	1000 V _{DC} 1 min
	core/screen	1000 V _{DC} 1 min
Capacitance	800 Hz	Nom. 44 nF/km
Capacitance unbalance		$\leq 1600 \text{ pF}/\text{km}$
Impedance	100 MHz	100 $\Omega \pm 5 \Omega$
Nominal velocity of propagation		ca. 76%
Insulation resistance	500 V	$\geq 2000 \text{ M}\Omega/\text{km}$
Coupling attenuation		$\geq 85 \text{ dB}$

Electrical Data (nominal) acc. to Cat.7 (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	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

Designation	J-09YS(ST)CH
Type	4x2x0.4 PiMF
Outer diameter	5.7 mm
Fire load	282 MJ/km
Fire load	0.08 kWh/m
Weight	33 kg/km
Copper content	21 kg/km
Tensile force	100 N

Art.-No.	Description
UC-COMPACT26X4P	Draka - UC FUTURE COMPACT AWG26 Cat.7 S/FTP 4P LSHF