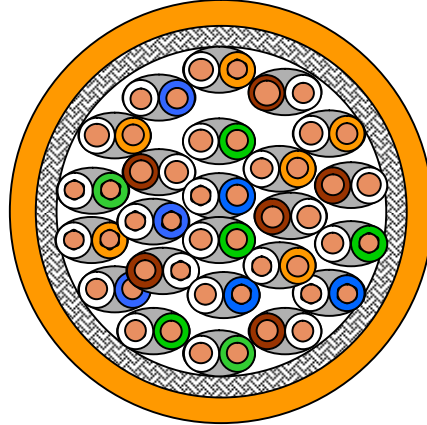


# UC<sup>FUTURE</sup> COMPACT<sup>ZD</sup> 26 Cat.7 S/FTP 24P LSHF-FR

## S/FTP Data Centre Cable Cat. 7 AWG26/1



### 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 2<sup>nd</sup> ed.  
EN 50173-5  
EN 50288-4-2

### Flame resistance

LSHF IEC 60332-1; IEC 60754-2; IEC 61034  
LSHF-FR IEC 60332-3-24; IEC 60754-2; IEC 61034

### Construction

Conductor	Bare copper wire, diameter 0.4 mm (AWG26/1)
Insulation	Foam-skin PP, diameter 1.0 mm
Twisting	2 insulated wires to the pair
Pair screening	Pet-Al foil around each pair
Stranding	6 (5+1) bundles with 4 foiled pairs bl, or, gn, br
	Coloured tapes are around each bundle
Screen	Tinned copper braid 85% coverage
Sheath	LSHF-FR, diameter 13.9 mm
Printing	DRAKA UC <sup>Future</sup> COMPACT <sup>ZD</sup> 26 Cat.7 S/FTP 24P + batch number + meter marking

### Mechanical properties

Minimum bending radius	Without load	≥ 55 mm
	With load	≥ 110 mm
Temperature range	During operation	-20°C up to +60°C*
	During installation	10°C up to +40°C

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## Electrical properties

at 20°C

Loop resistance		≤ 280 Ω/km
Resistance unbalance		≤ 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. 44 nF/km
Capacitance unbalance		≤ 1600 pF/km
Mean characteristic impedance	100 MHz	100 Ω ± 5 Ω
Nominal velocity of propagation		ca. 76%
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

## Electrical Data (nominal)

acc. to Cat.7 (at 20°C)

f (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (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

Product code	Designation	Type	Outer diameter mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
				MJ/km	kWh/m			
1016742	J-09YS(St)CH	24x2x0,4 PiMF	13.9	2.171	0,603	205	90	500

\* POE, reduce temperature range

**UC<sup>FUTURE</sup> COMPACT<sup>ZD</sup>26 Cat.7 S/FTP 24P LSHF-FR****Product Code Table**

<b>Product Description</b>	<b>Product Code</b>	<b>PG Reference Code</b>	<b>PG Part Number</b>
UC <sup>FUTURE</sup> COMPACT <sup>ZD</sup> 26 Cat.7 S/FTP 24P LSHF-FR	1016742	60013688	60013688

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