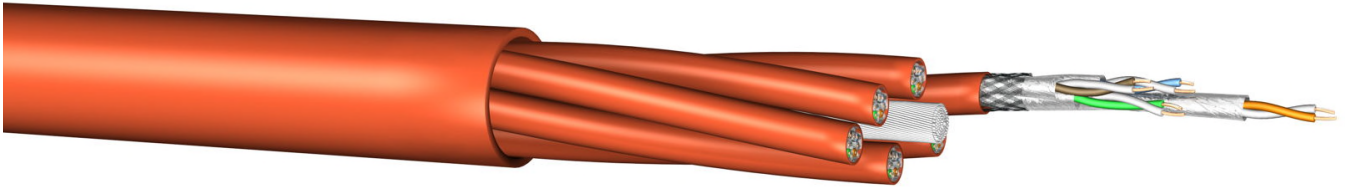


# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 6x4P LSHF

## S/FTP Data Centre Cable Cat. 7 AWG23/1



### Application

IEEE 802.3: 10Base-T; 100Base-T; 10GBase-T, ISDN; xDSL  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM155Mbit/s

Meets at least the requirements of the Class EA with a conductor diameter of AWG23 with a max. Transmission length of 80m instead of 90m permanent link!

### Standards

IEC 61156-6 work area cable  
ISO/IEC 11801 EN 50173-5  
EN 50288-4-2  
IEEE 802.3af

### Flame resistance

EN50399: Class Eca  
LSHF (FRNC): IEC 60332-1; IEC 60754-2; IEC 61034

### Construction

Conductor	bare copper wire, Ø 0.56 mm (AWG23/1)
Insulation	Foam skin Polyethylene, Ø 1.35 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4x pimf to the core
Cable screen	Tinned copper braid, coverage approx. 35%
Sheath	LSHF, orange RAL 2003, number code for identification
Stranding	0+6 stranded to the cable core, filler in the centre
Overall sheath	LSHF, orange RAL 2003
Printing	DRAKA UC <sup>Future</sup> COMPACT23 Cat.7 S/FTP 6x4P + batch number + meter marking

### Mechanical properties

Bending radius	Installation	8 x Outer diameter
	Installed	4 x Outer diameter
Temperature range	During operation	-20°C to + 60°C*
	During installation	0°C to + 50°C

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## Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 176 Ω /km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩ *km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 Ω ± 5 Ω
Nominal velocity of propagation		Ca. 79 %
Propagation delay	Nominal	< 450 ns/100m
Delay skew	Nominal	< 15 ns/100m
Test voltage	(DC, 1 min) core/ core and core/screen	1000 V
Coupling attenuation		≥ 85 dB
Segregation classification acc. EN 50174-2		„d”
		<b>Type 1</b>

## Electrical data (nominal)

acc. Cat.7 (at 20°C)

F (MHZ)	Attenuation (dB/90m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (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

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## Product order data

Product Reference Code	Designation	Product name	Outer diameter mm	Euro Class	Fire load		Weight kg/km	Cu content kg/km	Tensile force N
					MJ/km	kWh/m			
60015673	J-02YS(St)CH	UC <sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 6x4P LSHF	25.0	Eca	4819	1.339	446	163	900

## Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC FUTURE C23 C7 S/FTP 6x4P	1016776	60015673	60015673

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