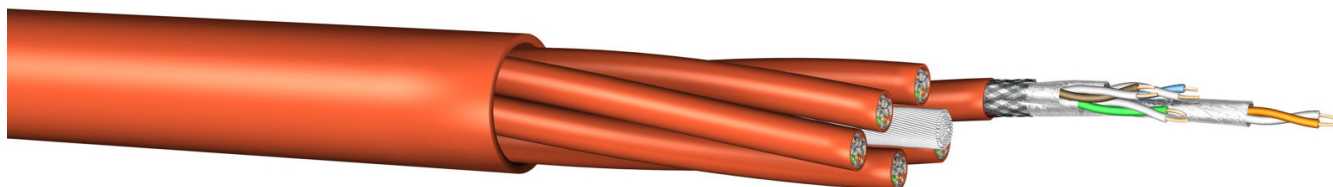


# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 6x4P LSHF

## 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

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

## 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”

## Electrical data (nominal)

acc. Cat.7 (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS- ACRF	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

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

## Product order data

Product Reference Code	Designation	Product name	Outer diameter	Euro Class	Fire load		Weight kg/km	Cu content kg/km	Tensile force N
			mm		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

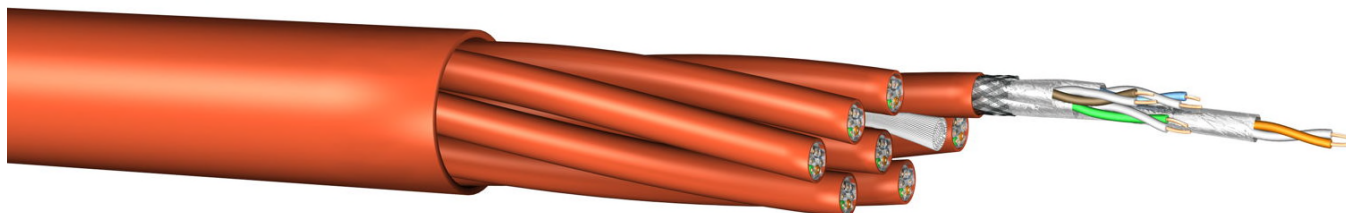
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# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 8x4P LSHF

## 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

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

EN50399: Class E<sub>ca</sub>  
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	8 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 8x4P + 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

# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 8x4P LSHF

## 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		Type 1 „d“

## Electrical data (nominal)

acc.7 (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS- ACRF	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

# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 8x4P LSHF

## Product order data

Product Reference Code	Designation	Product name	OD	Euro Class	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
			mm		MJ/km	kWh/m			
60015657	J-02YS(St)CH	UC <sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 8x4P LSHF	27.1	Eca	6640	1.845	581	217	1200

## Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC FUTURE C23 C7 S/FTP 8x4P	1016379	60015657	60015657

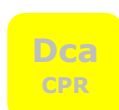
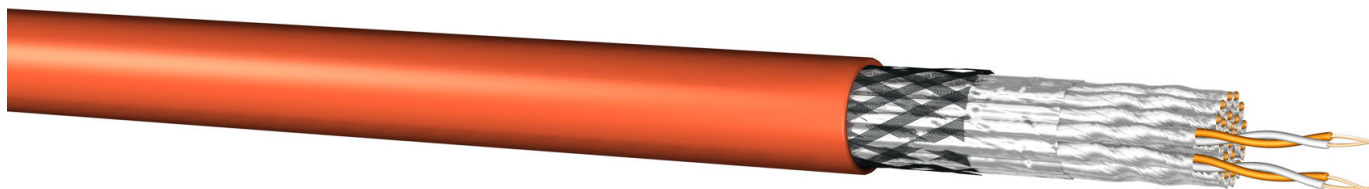
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# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 24P LSHF-FR D<sub>ca</sub>

## 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

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

EN 50399: Class D<sub>cas</sub>2d1a1; Class E<sub>ca</sub>  
 LSHF-FR(FRNC): IEC 60332-3-24; IEC 60332-1; 60754-2; IEC 61034

## Construction

Conductor	Bare copper wire, diameter) Ø 0.56 mm (AWG23/1)
Insulation	Foam-skin PP, diameter 1.4 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 18.0 mm orange RAL 2003
Printing	DRAKA UC <sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 24P + batch number + meter marking

## Mechanical properties

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

# UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 24P LSHF-FR D<sub>ca</sub>

## 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 ± 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	
Transfer impedance	bei 1 MHz	≤ 5 mΩ /m	<b>Grade 1</b>
	bei 10 MHz	≤ 5 mΩ /m	
	bei 30 MHz	≤ 10 mΩ /m	
Coupling attenuation		≥ 85 dB	<b>Type 1</b>
Segregation classification acc. EN 50174-2			„D“

## Electrical data (nominal)

acc. Cat.7 (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS- ACRF	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



## UC<sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 24P LSHF-FR D<sub>ca</sub>

### Product order data

Product Reference Code	Designation	Product name	Outer diameter mm	Euro Class	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
					MJ/km	kWh/m			
60013693	J-09YS(St)CH	UC <sup>FUTURE</sup> COMPACT23 Cat.7 S/FTP 24P LSHF-FR	18	D <sub>ca</sub> S2d1a1	3120	0,87	330	165	840

\* POE, reduce temperature range

### Product Code Table

Product Description	PG Reference Code	PG Part Number
UC <sup>FUTURE</sup> COMPACT23 C7 S/FTP 24P	60013693	60013693

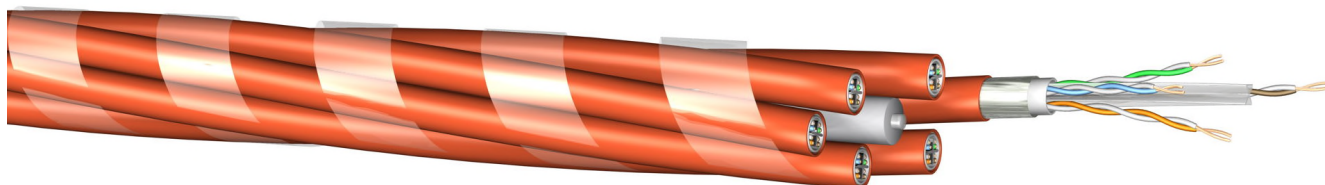
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# UC<sup>FUTURE</sup> LOOMED23 Cat.7 S/FTP 6x4P LSHF

## S/FTP Data Centre Cable Cat. 7



## 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

ISO/IEC 11801 2<sup>nd</sup> ed.

EN 50173-5

IEC 61156-5

EN 50288-4-1

## 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)
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
Printing	DRAKA UC <sup>FUTURE</sup> LOOMED23 Cat.7 S/FTP 6x4P + batch number + meter marking - 1 - (on element 1) number printing (on element 2-6)
Stranding	6 elements stranded to the cable loom, filler in the centre
Wrapping	adhesive tape

## 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

\* POE, reduce the temperature range

# UC<sup>FUTURE</sup> LOOMED23 Cat.7 S/FTP 6x4P LSHF

## 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		Type 1 „d“

## Electrical data (nominal)

acc. to Cat.7 (at 20°C)

F	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS- ACRF	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

\* POE, reduce the temperature range

# UC<sup>FUTURE</sup> LOOMED23 Cat.7 S/FTP 6x4P LSHF

## Product order data

Product Reference Code	Designation	Type	Outer diameter	Euro Class	Fire load		Weight	Copper content	Tensile forece
			mm		MJ/km	kWh/m	kg/km	kg/km	N
60015688	J-02YS(St)CH	UC <sup>FUTURE</sup> LOOMED23 Cat.7 S/FTP 6x4P LSHF	22.1	Eca	3550	0,99	340	163	800

## Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC <sup>FUTURE</sup> LOOMED23 Cat.7 S/FTP 6x4P LSHF	1016778	60015688	<b>60015688</b>

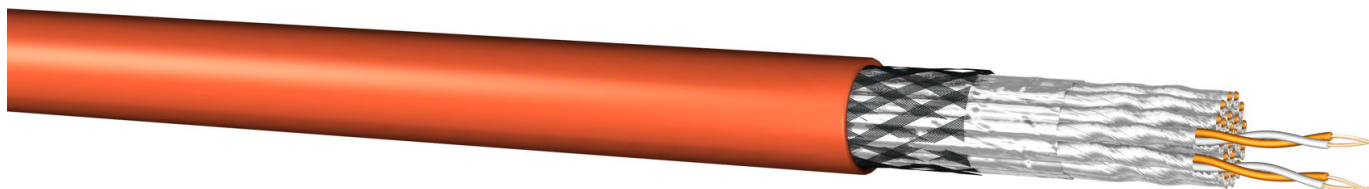
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# UC<sup>FUTURE</sup> COMPACT<sup>2D</sup>26 Cat.7 S/FTP 24P LSHF-FR D<sub>ca</sub>

## 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

PoE, PoE+

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

EN 50173-5; EN 50288-4-2

IEEE 802.3af

## Flame resistance

EN 50399: Class D<sub>cas</sub>2d1a1

LSHF-FR (LSOH-FR): IEC 60332-1; 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 Dca, diameter 13.9 mm
Printing	DRAKA UC <sup>FUTURE</sup> COMPACT <sup>2D</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

# UC<sup>FUTURE</sup> COMPACT<sup>2D</sup> 26 Cat.7 S/FTP 24P LSHF-FR D<sub>ca</sub>

## 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	<b>Grade 1</b>
	bei 10 MHz	≤ 5 mΩ /m	
	bei 30 MHz	≤ 10 mΩ /m	
Coupling attenuation		≥ 85 dB	<b>Type 1</b>
Segregation classification acc. EN 50174-2			<b>„D“</b>

## 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

## UC<sup>FUTURE</sup> COMPACT<sup>2D</sup>26 Cat.7 S/FTP 24P LSHF-FR D<sub>ca</sub>

### Product order data

Product Reference Code	Designation	Type	Outer diameter mm	Euro Class	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
					MJ/km	kWh/m			
60013688	J-09YS(St)CH	UC <sup>FUTURE</sup> COMPACT <sup>2D</sup> 26 Cat.7 S/FTP 24P LSHF-FR	13.9	D <sub>ca</sub> s2d1a1	2.171	0,603	205	90	500

### Product Code Table

Product Description	PG Reference Code	PG Part Number
UC <sup>FUTURE</sup> COMPACT <sup>2D</sup> 26 Cat.7 S/FTP 24P LSHF-FR	60013688	60013688

\* POE, reduce temperature range

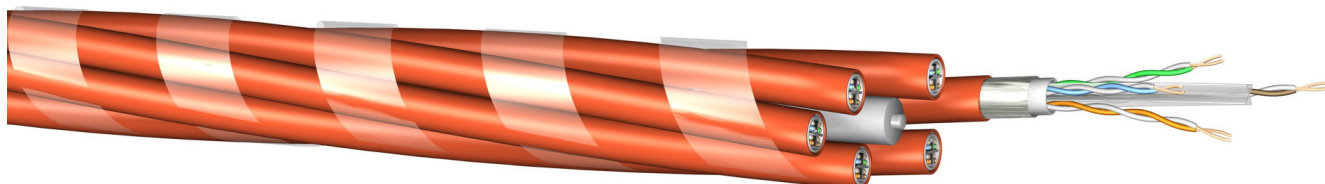
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# UC<sup>FUTURE</sup> LOOMED<sup>2D</sup> 26 Cat.7 S/FTP 6x4P LSHF

## S/FTP Data Centre Cable Cat. 7



## 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 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 0.4 mm (AWG26)
Insulation	Foam skin PP, diameter 1.0 mm (+/- 0,05)
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. 60%
Sheath	LSHF orange RAL 2003
Printing	number printing (on element 2-6) DRAKA UC <sup>FUTURE</sup> LOOMED <sup>2D</sup> 26 Cat.7 S/FTP 6x4P + batch number + meter marking - 1 - (on element 1)
Stranding	6 elements stranded to the cable loom, filler in the centre
Wrapping	adhesive tape

## Mechanical properties

Minimum bending radius	Without load	8xD
	With load	4xD
Temperature range	During operation	-20°C up to +60°C*
	During installation	10°C up to +40°C



# UC<sup>FUTURE</sup> LOOMED<sup>2D</sup> 26 Cat.7 S/FTP 6x4P LSHF

\* POE, reduce temperature range

## 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
Impedance	100 MHz	100 Ω ± 5 Ω
Nominal velocity of propagation		ca. 76%
Insulation resistance	500 V	≥ 2000 MΩkm
Coupling attenuation		≥ 85 dB
Segregation classification acc. EN 50174-2		„d”
		<b>Type 1</b>

## 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

# UC<sup>FUTURE</sup> LOOMED<sup>ZD</sup>26 Cat.7 S/FTP 6x4P LSHF

## Product order data

Product Reference Code	Designation	Type	Outer diameter mm	Euro Class	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
					MJ/km	kWh /m			
60013704	J-02YS(St)CH	UC <sup>FUTURE</sup> LOOMED <sup>ZD</sup> 26 Cat.7 S/FTP 6x4P LSHF	16.4	Eca	2020	0.56	210	132	700

## Product Code Table

Product Description	PG Reference Code	PG Part Number
UC FUTURE LZD 26 C7 S/FTP 6x4P	60013704	60013704

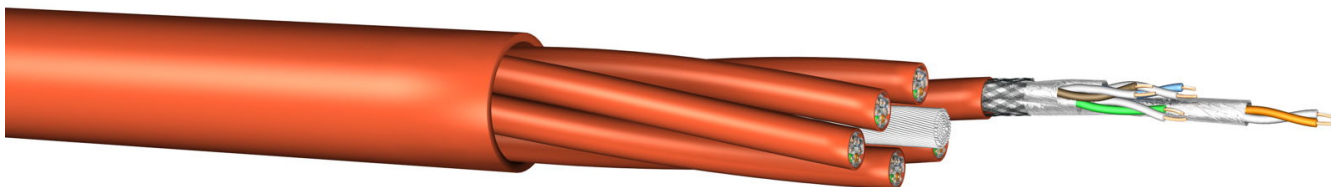
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# UC<sup>FUTURE</sup> COMPACT<sup>2D</sup>26 Cat.7 S/FTP 6x4P LSHF

## 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 EN 50173-5  
 EN 50288-4-2  
 IEEE 802.3af

## Flame resistance

EN50399: Class E<sub>ca</sub>  
 LSHF (FRNC): IEC 60332-1; IEC 60754-2; IEC 61034;

## Construction

Conductor	bare copper wire, Ø 0.4 mm (AWG26/1)
Insulation	Foam skin PP, diameter 1.0 mm (+/- 0,05)
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. 60%
Sheath	LSHF orange RAL 2003, number printing (1-6)
Stranding (6x)	0+6 stranded to the cable core, filler in the centre
Overall sheath	LSHF orange RAL 2003
Printing	DRAKA UC <sup>FUTURE</sup> COMPACT <sup>2D</sup> 26 Cat.7 S/FTP 6x4P + batch number + meter marking

## Mechanical properties

Minimum bending radius	Without load	8xD
	With load	4xD
Temperature range	During operation	-20°C up to +60°C*
	During installation	10°C up to +40°C

# UC<sup>FUTURE</sup> COMPACT<sup>2D</sup>26 Cat.7 S/FTP 6x4P LSHF

\* POE, reduce the temperature range

## 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
Coupling attenuation		≥ 85 dB <b>Type 1</b>
Segregation classification acc. EN 50174-2		„d”

## 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

## Product order data

Product Reference Code	Designation	Type	Outer diameter  mm	Euro Class	Fire load		Weight  kg/km	Copper content  kg/km	Tensile force  N
					MJ/ km	kWh/ m			
60011482	J- 09YS(St)C HH	UC <sup>FUTURE</sup> COMPACT <sup>2D</sup> 26 Cat.7 S/FTP 6x4P LSHF	19.2	Eca	3460	0.96	322	132	700

**UC<sup>FUTURE</sup> COMPACT<sup>ZD</sup> 26 Cat.7 S/FTP 6x4P LSHF****Product Code Table**

Product Description	Product Code	PG Reference Code	PG Part Number
UC FUTURE CZD 26 C7 S/FTP 6x4P	1016782	60011482	60011482

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# UC<sup>FUTURE</sup> COMPACT22 Cat8.2 S/FTP 2000MHz

## S/FTP LSHF-FR



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; 40GBase-T  
ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO-Cabling  
Power over Ethernet (PoE) / PoE+

## Standards

EN 50173-1; ISO/IEC 11801; EN 50288-9-1; IEC 61156-5; IEC 61156-9  
IEEE 802.3af; IEEE 802.3at; IEEE 802.3bt

## Fire rating

EN 50399: Class D<sub>cas</sub>2d1a1; Class E<sub>ca</sub>  
LSHF-FR(FRNC): IEC 60332-3-24; IEC 60332-1; 60754-2; IEC 61034

## Construction

Conductor	Bare copper wire Ø 0.64 mm (AWG22)
Insulation	Foam-Skin Polyethylen, Ø 1.6 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-laminated plastic foil around each pair
Overall screen	Copper braid, tinned
Sheath	Halogen free, fire retardant sheathing material; LSHF-FR acc. EN50289-2-27, yellow RAL 1021

## Mechanical Properties

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

# UC<sup>FUTURE</sup> COMPACT22 Cat8.2 S/FTP 2000MHz

## Electrical Properties

DC loop resistance		≤ 130 Ω/km	
Resistance unbalance		≤ 1%	
Insulation resistance	(500 V)	≥ 5000 MΩxkm	
Capacitance	at 800 Hz	Nom. 43 nF/km	
Capacitance unbalance	(pair to ground)	≤ 1200 pF/km	
Mean Characteristic impedance	@ 100 MHz	100 ± 5 Ω	
Nominal velocity of propagation		Nom. 73%	
Delay skew		20 ns/100 m	
Transfer impedance	1 MHz	5 mΩ /m	<b>Grade 1</b>
	10 MHz	5 mΩ /m	
	30 MHz	10 mΩ /m	
	100 MHz	20 mΩ /m	
Coupling attenuation		85 dB	<b>Type 1</b>
Segregation class acc. EN 50174-2		„d“	

## Nominal Transmission characteristics acc. Cat.8.2 at 20°C

F	Attenuation	NEXT	ACR	Return loss	PS-NEXT	PS-ACR	ACR-F	PS-ACR-F
(MHz)	(dB/100m)	(dB)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	1,8	102	100	29	99	97	100	97
4	3,0	102	99	33	99	96	98	95
10	4,9	102	97	32	99	94	97	94
16	6,3	102	96	32	99	93	97	84
20	7,0	102	95	31	99	92	96	93
31.25	8,9	100	91	31	97	88	95	92
62.50	12,5	100	87	30	97	84	94	91
100	16,1	100	84	27	97	81	90	87
155	18,0	99	81	26	96	78	88	85
200	19,1	98	79	24	95	76	84	81
250	24,2	97	73	22	94	70	83	80
300	28,2	97	71	22	94	68	81	78
600	48,0	96	48	22	93	45	80	77
1000	55,8	89	33	20	86	30	75	72
1200	58,6	86	27	20	83	24	73	70
1500	67,5	83	15	19	80	12	66	63
1600	68,4	79	11	18	76	8	65	62
2000	78,1	75	-3	18	72	-6	59	56

# UC<sup>FUTURE</sup> COMPACT22 Cat8.2 S/FTP 2000MHz

## Product order data

Product code	Cable type	Brand name	Outer diameter mm	Euro class	Fire load MJ/km	Weight kg/km	Copper content	Tensile force N
60030331	J-02YSCH 4x2xAWG22 PiMF	UC <sup>FUTURE</sup> COMPACT22 Cat.8.2 S/FTP 4P 2000MHz LSHF-FR	8.5	D <sub>ca</sub> s2d1a1	674	80	47	340

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