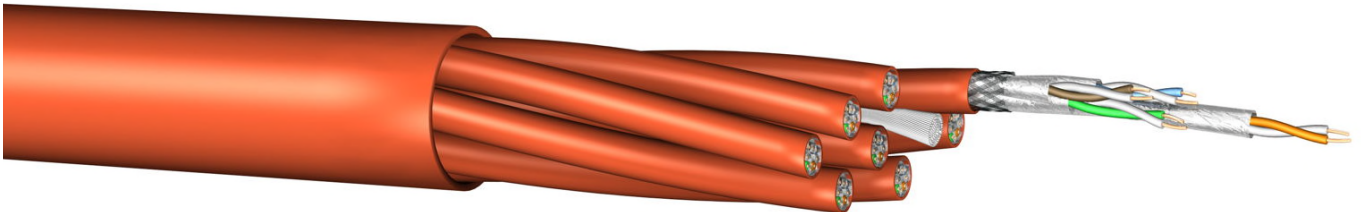


UC^{FUTURE} COMPACT23 Cat.7 S/FTP 8x4P LSHF

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

Power over Ethernet (PoE) / Type 1-4

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 / at / bt

Flame resistance

EN50399:

Class E_{ca}

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 ^{FUTURE} 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^{FUTURE} 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		„d“

Electrical data (nominal)

acc.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

UC^{FUTURE} COMPACT23 Cat.7 S/FTP 8x4P LSHF

Product order data

Product Reference Code	Designation	Product name	OD mm	Euro Class	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
					MJ/km	kWh/m			
60015657	J-02YS(St)CH	UC ^{FUTURE} 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

© PRYSMIAN GROUP 2009, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.