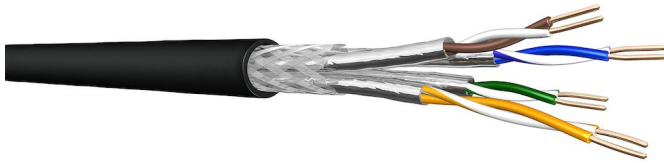


## UC900 SS23 CAT7 S/FTP PE

Data horizontal Cat.7 cable with double screen



### DESCRIPTION

S/FTP (Shielded, Foiled Twisted Pair) is a cable construction with an outer braided screen and foil screen around the twisted pairs, which protects against both high and low frequency interference and at the same time provides high mechanical durability against vibrations.

The cable is LS0H as well as UV-resistant and suited for outdoor installation in Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE802.5 ; ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling and Power over Ethernet (PoE) / Type 1-4 networks.

### CERTIFICATION, APPROVAL & STANDARD

<b>EN 50173-1</b>	Standard for structured communications cables
<b>EN 50288-4-1</b>	Datacom cables up to 600 Mhz
<b>ISO/IEC 11801</b>	Generic telecom cabling for customer premises
<b>IEC 61156-5</b>	Data communication cables
<b>IEEE 802.3at / at/ bt</b>	Standard for Ethernet networks

### CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Foam-skin-PE
Stranding	Layers
Screen over stranding element	Foil
Screen construction	Metallised foil and braid
Screen material	Copper, tinned
Screen over stranding	Braiding
Material outer sheath	Polyethylene (PE)
Cable shape	Round

## ELECTRICAL PROPERTIES

Test voltage [kV]	1
NVP value [%]	79
Resistance unbalance (max) [%]	2
Nominal mutual capacitance [pF/m]	43,000
Capacitance unbalance (max) [pF/m]	1,500
Propagation delay (max) [ns/100m]	427
Delay skew (max) [ns/100m]	12
Transfer impedance at 10 MHz [mOhm/m]	5
Segregation classification (acc. EN 50174-2)	d

## FIRE PROPERTIES

Halogen free	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	Fca
Smoke development class (acc. EN 13501-6)	Not applicable
Euro class flaming droplets/particles (acc. EN 13501-6)	Not applicable
Euro class acidity (acc. EN 13501-6)	Not applicable

## THERMAL PROPERTIES

Max. conductor temperature [°C]	60
Max. outer temperature, fixed installation [°C]	-40
Permitted cable outer temperature after assembling without vibration (max) [°C]	60
Permitted cable outer temperature during assembling/handling (min) [°C]	0
Permitted cable outer temperature during assembling/handling (max) [°C]	50

## MECHANICAL PROPERTIES

Bending radius (rule)	During installation 8 x D. Finally installed 4 x D.
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## APPLICATION PROPERTIES

UV resistant	Yes
Outdoor installation	Yes
Underground installation	Yes
Suitable as telephone cable	Yes
Suitable as computer data cable	Yes

## DELIVERY INFORMATION

Basic construction	Conductor category	Colour outer sheath	Standard packaging quantity	SAP code	DOP number	EAN-code (GTIN)
4x2x0,56 mm	Class 1 = solid	Black	500	60011276	1007669	
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## MECHANICAL DATA

Basic construction	Number of cores	AWG size	Diameter conductor [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Fire load [MJ/km]	Max. tensile strength during installation [kN]
4x2x0,56 mm	8	23	0.56	8.6	75		0.15

## ELECTRICAL DATA

Basic construction	Conductor resistance at 20° C [Ohm/km]	Loop resistance [Ohm]	Characteristic impedance [Ohm]	Coupling attenuation [dB]	Nominal operation capacitance [nF/km]
4x2x0,56 mm	77	154	100	85	43

## CAT 7 AWG23 TRANSMISSION CHARACTERISTICS (AT 20°C)

F MHZ	Attenuation dB/100m	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
155,0	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
450,0	38,3	87	84	48	45	64	61	23
600,0	44,8	85	82	40	37	61	58	22
750,0	52,0	83	80	31	28	59	56	21
900,0	59,4	82	79	23	20	58	55	20
1000,0	63,1	80	77	17	14	57	54	20