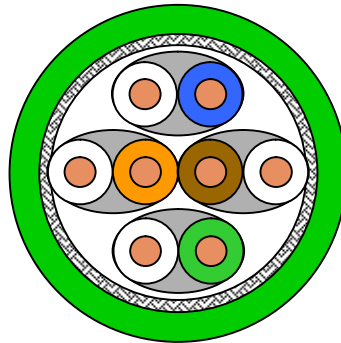


# UC900 SS23 Cat.7 PUR

S/FTP



## Application

Primär (Campus), Sekundär (Riser), Tertiär (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; **10GBase-T**  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

## Standards

EN 50173-1; EN 50288-4-1  
ISO/IEC 11801; IEC 61156-5

## Oil resistance

Acc. VDE 0282-2 (mineral oil IRM 902 acc. ISO 1817)

## Construction

Conductor	bare copper wire, Ø 0.56 mm (AWG 23)
Insulation	foamskin PE, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	copper braid, tinned
Sheath	PUR, green RAL 6018, oil resistant

## Mechanical properties

Bending radius	without load	≥ 30 mm
	with load	≥ 60 mm
Temperature range	during operation	-30°C to + 75°C
	during installation	0°C to + 50°C

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## Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 150 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 5) Ω
	(100 - 250) MHz	(100 ± 10) Ω
	(250 - 600) MHz	(100 ± 15) Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		≤ 425 ns/100m
Delay skew		≤ 9 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m
	at 30 MHz	10 mΩ/m
	at 100MHz	20 mΩ/m
Coupling attenuation		85 dB

## Electrical data (nominal)

acc. to Cat.7 (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (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
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

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### Technical data

Product code	Cable type	Brand name	Outer diameter	Fire load		Weight kg/km	Copper content	Tensile force
			mm	MJ/km	kWh/m			N
1005232	J-02YSC11Y 4x2x0.56 PiMF	UC900 SS23 Cat.7 S/FTP 4P PUR	7.5	866	0.24	56	38	340

### Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC900 SS23 C7 S/FTP 4P PUR GN	1005232	60015294	<b>60015294</b>
UC900 SS23 C7 S/FTP 4P PUR GN 500DW	1005232-00500DW	60015294	<b>60015297</b>
UC900 SS23 C7 S/FTP 4P PUR GN 1000DW	1005232-01000DW	60015294	<b>60015299</b>

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