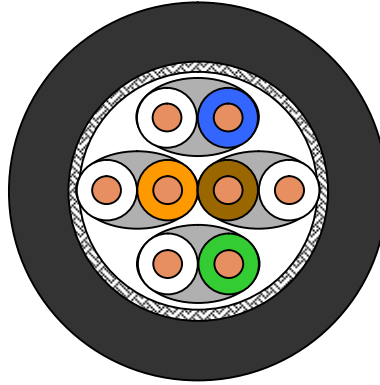


# ICS IE UC900 SS23 Cat.7 PE

## IE S/FTP cable 4x2xAWG23/1 with PE sheath



### Application

Primary (Campus), Secondary (Riser), Tertiary (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

### Flame Resistance

### Construction

Conductor	bare copper wire, Ø 0.56 mm (AWG 23)
Insulation	foam-skin 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	PE, for outdoor installation
Colour	black, RAL 9005
Marking	DRAKA UC900 SUPER SCREEN 23 CATEGORY 7 S/FTP 4P IEC 61156-5 PE, batch number and meter marking

## ICS IE UC900 SS23 Cat.7 PE

### Mechanical properties

Bending radius	without load	≥ 40 mm
	with load	≥ 80 mm
Temperature range	during operation	-55°C to + 60°C
	during installation	-20°C to + 50°C

### Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 165 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 ± 15) Ω
	(100 - 250) MHz	(100 ± 18) Ω
	(250 - 600) MHz	(100 ± 25) Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		≤ 427 ns/100m
Delay skew		≤ 12 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	10 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
	at 100MHz	60 mΩ/m
Coupling attenuation		85 dB

## ICS IE UC900 SS23 Cat.7 PE

### 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

### Technical data

Part number	Cable type DIN/VDE	Product name	Outer diameter nominal mm	Weight kg/km	Copper content	Tensile force
						N
1001087	A-02YSC2Y 4x2x0.56 PiMF	UC900 SS23 Cat.7 PE S/FTP 4P	8.4	95	38	340

### Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC900 SS23 C7 S/FTP 4P PE 500DW	1001087-00500DW	60011278	<b>60011276</b>
UC900 SS23 C7 S/FTP 4P PE 1000DW	1001087-01000DW	60011278	<b>60011277</b>
UC900 SS23 C7 S/FTP 4P PE	1001087	60011278	<b>60011278</b>
UC900 SS23 C7 S/FTP 4P PE 100RW	1001087-00100RW	60011278	<b>60015266</b>
UC900 SS23 C7 S/FTP 4P PE 50RW	1001087-00050RW	60011278	<b>60015269</b>
UC900 SS23 C7 S/FTP 4P PE 4000DO	1001087-04000DO	60011278	<b>60025667</b>

## ICS IE UC900 SS23 Cat.7 PE

---

© PRYSMIAN GROUP 2011, 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.