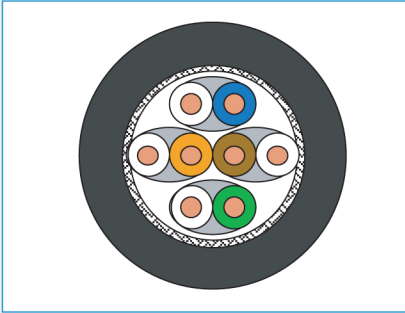


# IE UC900 SS23 Cat.7 PE

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

## Fire Rating

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

## Construction

<b>Conductor</b>	bare copper wire, Ø 0.56 mm (AWG 23)
<b>Insulation</b>	foam-skin PE, Ø 1.4 mm
<b>Twisting</b>	2 cores to the pair
<b>Pair screen</b>	Al-laminated plastic foil
<b>Cable lay up</b>	4 pairs (PiMF) to the core
<b>Screen</b>	copper braid, tinned
<b>Sheath</b>	PE, for outdoor installation
<b>Colour</b>	black, RAL 9005
<b>Outer Diameter</b>	Nom. 8.4 mm
<b>Weight</b>	Nom. 95 kg/km
<b>Tensile force N</b>	340

## Mechanical Properties

<b>Bending radius</b>	Without load	≥ 40 mm
	With load	≥ 80 mm
<b>Temperature range</b>	During operation	-55°C to + 60°C
	During installation	-20°C to + 50°C

## Electrical Properties at 20°C ± 5°C

<b>Loop resistance</b>	-	≤ 165 Ω/km
<b>Resistance unbalance</b>	-	≤ 2%
<b>Insulation resistance</b>	(500 V)	≥ 5000 MΩ*km
<b>Mutual capacitance</b>	at 800 Hz	Nom. 43 nF/km
<b>Capacitance unbalance</b>	(pair/ground)	≤ 1500 pF/km
<b>Characteristic impedance</b>	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250) MHz	(100 ± 18) Ω
	(250 - 600) MHz	(100 ± 25) Ω
<b>Nominal velocity of propagation</b>	-	ca. 79 %
<b>Propagation delay</b>	-	≤ 427 ns/100m
<b>Delay skew</b>	-	≤ 12 ns/100m
<b>Test voltage</b>	(DC, 1 min) core/core and core/screen	1000 V
<b>Transfer impedance</b>	at 1 MHz	10 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
	at 100MHz	60 mΩ/m
<b>Coupling attenuation</b>	-	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	1.8	100	97	98	95	105	105	-
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
16	6.8	100	97	93	90	93	90	30
20	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	17.4	100	97	83	80	77	74	30
125	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175	23.3	93	90	70	67	72	69	25
200	25.0	92	89	67	64	71	68	25
250	28.1	90	87	62	59	69	66	24
300	30.9	89	86	58	55	67	64	24
450	38.3	87	84	48	45	64	61	23
600	44.8	85	82	40	37	61	58	22
750	52.0	83	80	31	28	59	56	21
900	59.4	82	79	23	20	58	55	20
1000	63.1	80	77	17	14	57	54	20

## Ordering Information

P/N	Product Description	P.U
60011276	IE S/FTP cable 4x2xAWG23/1 with PE sheath, IE UC900 SS23 Cat.7 PE	500m/drum
60011278	IE S/FTP cable 4x2xAWG23/1 with PE sheath, IE UC900 SS23 Cat.7 PE	1000m/drum