

IE UC900 SS23 Cat.7 (L)H LSHF-FR

IE S/FTP cable 4x2xAWG23/1 with LSHF-FR moisture barrier sheath

Construction

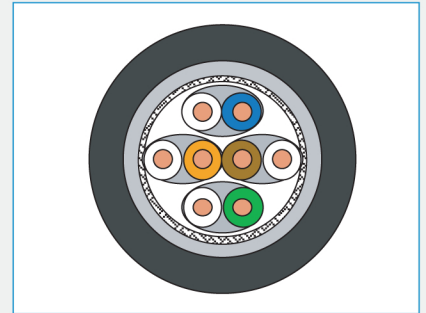
Conductor	bare copper wire, \varnothing 0.56 mm (AWG 23)
Insulation	foam-skin PE, \varnothing 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core
Screen	copper braid, tinned
Sheath	aluminum tape connected with halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, wall thickness 1.5 mm
Colour	black RAL 9005
Outer Diameter	Nom. 9.5 mm
Weight	Nom. 114 kg/km
Tensile force N	350

Mechanical Properties

Bending radius	Without load	≥ 40 mm
	With load	≥ 80 mm
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C

Electrical Properties at 20°C \pm 5°C

Loop resistance	-	$\leq 165 \Omega/\text{km}$
Resistance unbalance	-	$\leq 2\%$
Insulation resistance	(500 V)	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	$\leq 1500 \text{ pF/km}$
Mean characteristic impedance	100 MHz	$100 \pm 5 \Omega$
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 m Ω /m
	at 10 MHz	10 m Ω /m
	at 30 MHz	30 m Ω /m
	at 100MHz	60 m Ω /m
Coupling attenuation	-	85 dB



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

Fire Rating

- IEC 60332-1, IEC 60332-3-24, IEC 61034-2, IEC 60754-1/2

Electrical Data (Nominal) acc. to Cat.7 (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB/100m)	ACR (dB)	PS-ACR (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB/100m)
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
60015223	IE S/FTP cable 4x2xAWG23/1 with LSHF-FR moisture barrier sheath, IE UC900 SS23 Cat.7 (L)H LSHF-FR	500m/drum
60015222	IE S/FTP cable 4x2xAWG23/1 with LSHF-FR moisture barrier sheath, IE UC900 SS23 Cat.7 (L)H LSHF-FR	1000m/drum