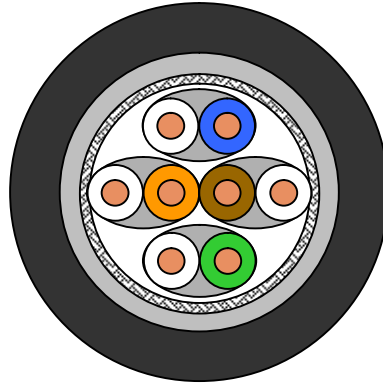


ICS IE UC900 SS23 Cat.7 (L)H LSHF-FR

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

LSHF: IEC 60332-1; IEC 60754-2; IEC 61034
LSHF-FR: IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034

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	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
Marking	DRAKA UC900 SUPER SCREEN 23 Cat.7 S/FTP 4P IEC61156-5 (L)H, batch number and meter marking

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

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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
Mean characteristic impedance	100 MHz	100 ± 5 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

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

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

Technical data

Part number	Cable type DIN/VDE	Product name	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force
				MJ/km	kWh/m			N
1020561	J/A-02YSC(L)H 4x2x056 PIMF LSHF-FR	UC900 SS 23 Cat.7 S/FTP 4P(L)H LSHF-FR	9.5	878	0.244	114	38	350

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC900 SS23 C7 S/FTP 4P (L)H BK	1001113	60015222	60015222
UC900 SS23 C7 S/FTP 4P (L)H BK 500DW	1001113-00500DW	60015222	60015223
UC900 SS23 C7 S/FTP 4P (L)H BK 100DW	1001113-00100DW	60015222	60015224
UC900 S23 C7 S/FTP 4P (L)H LS-F BK	1020561	60015225	60015225
UC900 SS23 C7 S/FTP 4P(L)H LS-F BK 500DW	1020561-00500DW	60015225	60015226

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