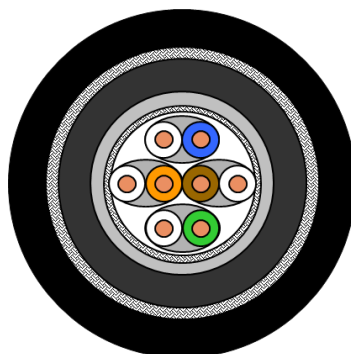


ICS IE UC900 SS23 Cat.7 (L)H + armoured + PE, UV resistant

IE S/FTP cable 4x2xAWG23/1 PE + SWB with moisture barrier sheath + UV resistant



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
Power over Ethernet (PoE) / PoE+

Standards

EN 50173-1; EN 50288-4-1
ISO/IEC 11801; IEC 61156-5
IEEE 802.3af

Flame resistance

PE: 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
Inner sheath	aluminum tape bonded to LSOH sheath
Armour	Galvanized steel wire braid, optical coverage ≥ 95%
Outer sheath	PE, black RAL 9005
Marking	DRAKA UC900 SUPER SCREEN 23 Cat.7 S/FTP 4P IEC61156-5 (L)H + SWB + PE, batch number and meter marking

Mechanical properties

Bending radius	without load	≥ 80 mm
	with load	≥ 160 mm
Temperature range	during operation	-20°C to + 75°C
	during installation	0°C to + 50°C

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Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 154 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	≤ 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

ICS IE UC900 SS23 Cat.7 (L)H + armoured + PE, UV resistant**Technical data**

Part number	Cable type DIN/VDE	Product name	Outer diameter	Fire load		Weight	Copper content
			mm	MJ/km	kWh/m	kg/km	
60062472	J/A-02YSC(L)HQ2Y 4x2x056 PiMF	UC900 SS23 C7 S/FTP 4P (L)HQ2Y BK	13.5	TBD	TBD	228	38

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