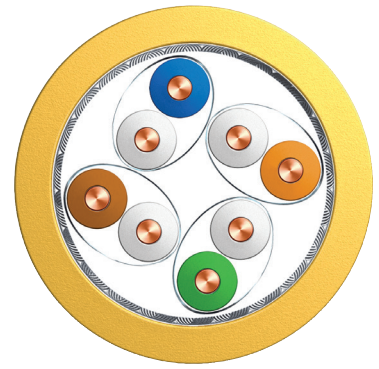


SureLAN®

Cat7.A <1500 MHz> 22/1awg SU/FTP LSZH



Application

Data cable for analogue and digital signal transmission in the frequency range up to 1500 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring.

Use : IEEE 802.3; 10/100/1000/10GBase-T; FDDI, broadband, video, ISDN, ATM, Multimedia, PoE.

Cable Design

Conductor	Solid Bare Cu-wire AWG 22/1
Insulation	SFS-PE
Pair assembly	2 cores twisted to a pair. 4 pairs total
Pair identification	wh-bu, wh-or, wh-gn, wh-bn
Pair Screen	Individual plastic laminated aluminium foil
Braid	Tinned copper wire braid
Outer Jacket	LSZH FireFighter® Yellow
Diameter	Ø 8,40 mm
Weight	73 kg/km

Specification

Part Number	Type
7150-06	Cat7.A 4x2xAWG22/1 SU/FTP <1500 MHz> LSZH



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Standards

Applicable Standards	EN 50288-4-1 ; IEC 61156-5 ; EN 5073-1 ; ISO/IEC 11801 2nd edition RoHS 2011/65/EU
Flamability Rating	IEC 60332-1, IEC 60332-3-24, IEC 60754-2, EN 61034, IEC 61034

Thermal & Mechanical Characteristics

Temperature range	during installation	0 to +50	°C
	stationary	-20 to +60	°C
Min. bending radius	under tensile load	8	x Ø
	without tensile load	4	x Ø
Maximum tractive force		150	N

Electrical Characteristics

Loop resistance max.	11,5	Ω/100m
Insulation resistance min.	5	GΩ x km
Characteristic Impedance 1-100 MHz	100 ± 15	Ω
Characteristic Impedance 100-250 MHz	100 ± 22	Ω
Characteristic Impedance 250-1200 MHz	100 ± 25	Ω
Transfer impedance at 10 MHz max.	5	mΩ/m
Mutual capacitance nom.	45	nF/km
Relative propagation velocity ca.	0,79	c
Screen attenuation ≤ 1200 MHz min.	85	dB
Test voltage	700	V-AC

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Transmission Performance

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	ELFEXT (dB/100m)	RL (dB)
	Nom.	Nom.	Nom.	Nom.	Nom.
1	1,7	110	108	105	25
4	3,2	110	107	103	28
10	5,0	110	105	100	30
16	6,3	110	104	98	30
20	7,0	110	103	95	30
31,25	8,9	110	101	93	30
62,5	13,0	110	97	90	30
100	16,2	108	92	85	30
155	21,2	105	84	82	29
200	23,0	102	79	78	28
300	28,5	100	71	70	27
500	36,2	96	60	63	26
600	40,7	93	52	60	25
1000	54,2	88	34	52	24
1200	57,9	85	27	42	23
1500	67,2	83	16	30	21

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