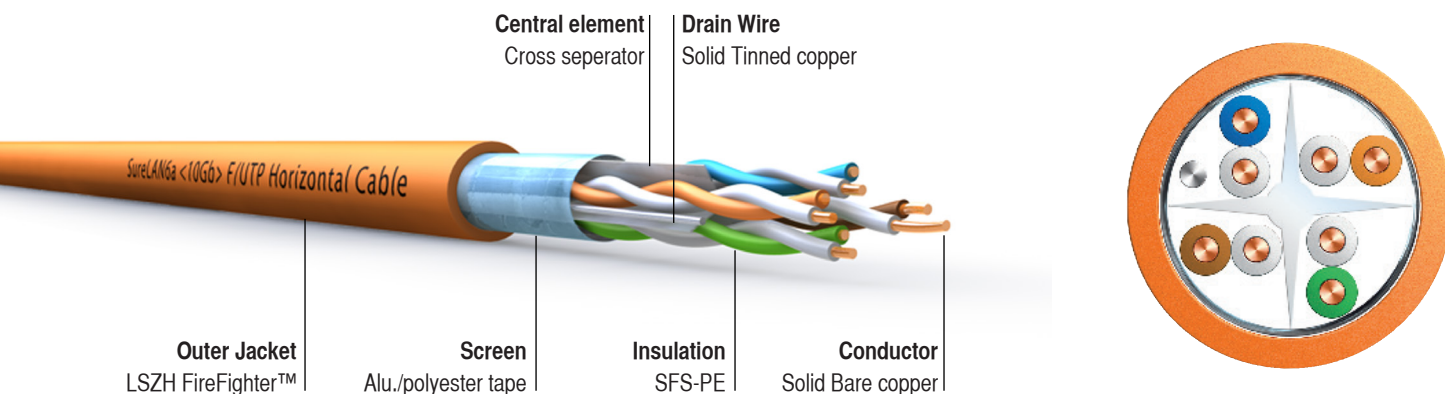


SureLAN™ 6a <10Gb> F/UTP



Application

500 MHz overall screened data transmission cable for high quality requirements, backward compatible with current data-services as well as 10 Gigabit-Ethernet. Installation is easy because of a central element (cross) no individual shield is required. Usable for: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T ; CDDI/TPDDI; ISDN; ATM 155 Mbit/s, TP-PMD 125 Mbit/s, Token Ring 4/16 Mbit/s, analogue telephony

Acc. to ISO/IEC 11801 2nd.ed., EN 50173-1, TIA/EIA 568-B.2-10, Draft 5.0, EN 50288-5-1, IEC 61156-5.

Fire Behaviour

IEC60332-3
IEC61034
IEC60754-1

Cable Construction

Conductor	Solid bare copper wire (23awg)
Insulation	SFS-PE
No. Of Pairs	4
Central element	Cross separator
Drain wire	Tinned copper
Screen	Aluminium/polyester tape
Outer Jacket	LSZH FireFighter™
	Ø 7.10 mm

Electrical Data at 20°C



Conductor loop resistance	≤ 18 Ω/100m
Insulation resistance	≥ 5 GΩxkm
Operating capacitance (nom.)	48 nF/km
Capacitance unbalance (nom.)	≤ 150 pF/100m
rel. velocity of propagation	77 %
Characteristic impedance at 1-100 MHz	100 ± 15 Ω
Characteristic impedance at 100-250 MHz	100 ± 22 Ω
Characteristic impedance at 250-600 MHz	100 ± 25 Ω
Screen attenuation	> 60 dB
Test voltage	700 V-AC

Mechanical & Thermal Characteristics

Bending Radius	Dynamic (installation)	8 x Ø
	Static (installed)	4 x Ø
Temperature range	Stationary	-20°C up to +60°C
	Flexing	-0°C up to +50°C
Max. Tractive force		100 N
Weight		60 kg/km

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		ACR (dB/100m)	EL-FEXT (dB)		Return Loss (dB)	
	Nom.	Max. Cat 7	Nom.	Min. Cat 6		Nom.	Min. Cat 6	Nom.	Min. Cat 6
1	1.7	[2.0]	87	66	85.3	85	66	24	-
4	3.5	3.6	76	65	72.5	72	56	27	23.1
10	5.5	5.7	72	60	66.5	63	50	30	25
16	6.9	7.2	70	56	63.1	60	46	30	25
20	7.7	8.1	68	55	60.3	58	44	30	25
100	18.2	18.5	63	44	44.8	43	30	30	20.1
155	22.9	23.4	60	41	37.1	40	26	28	18.8
200	26.0	26.8	57	40	31.0	38	24	27	18.0
300	32.3	33.3	55	-	22.7	36	-	25	-
500	39.8	44.1	53	-	13.2	34	-	22	-

The performance data given are typical measured values

Part Number	AWG Size	Type	Colour	Cal. potential MJ/km
7291	23	LSZH	Orange 	540
7291	23	LSZH	Ivory 	540