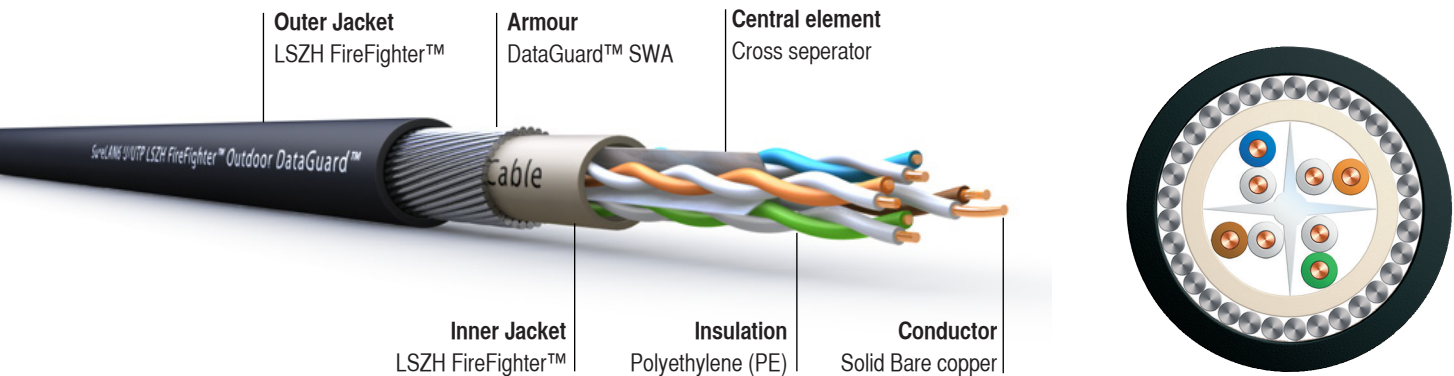


SureLAN™ 6 U/UTP DataGuard™ Armoured



Application

Unscreened data transmission cable for 350MHz. Usable for high quality requirements, all current data-services as well as Gigabit-Ethernet. Installation is easy because of a central element (cross) no individual shield is required. Usable for: 10Base-T; 100Base-T; 1000Base-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 110801 2nd.ed., EN 50173-1, TIA/EIA 568-B.2, EN 50288-6-1, IEC 61156-5.

Fire Behaviour

LSZH
IEC60332-3 Cat. C
IEC61034
IEC60754-1

Features

- Outdoor Use
- Direct Burial
- UV Stable
- Rodent Protection

Cable Construction

Conductor	Solid bare copper wire (24awg)	
Insulation	Polyethylene (PE)	
No. Of Pairs	4	
Central element	Cross separator	
Inner Jacket	LSZH FireFighter™	Ø 6.50 mm
Armour	DataGuard™ Steel wire armour	
Outer Jacket	LSZH FireFighter™	Ø 10.30 mm

Electrical Data at 20°C


Conductor loop resistance	≤ 19 Ω/100m
Insulation resistance	≥ 5 GΩxkm
Operating capacitance (nom.)	50 nF/km
Capacitance unbalance (nom.)	≤ 150 pF/100m
rel. velocity of propagation	67 %
Characteristic impedance at 1-100 MHz	100 ± 15 Ω
Characteristic impedance at 100-250 MHz	100 ± 22 Ω
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		90 N
Weight		46 kg/km

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		ACR (dB/100m)	Return Loss (dB)	
	Nom.	Max. Cat 6	Nom.	Min. Cat 6	Nom.	Nom.	Min. Cat 6
1	1.8	[2.1]	92	66	90.2	24	[20.0]
4	3.4	3.8	83	65	79.6	27	23.1
10	5.3	6.0	78	60	72.7	30	25.0
16	6.8	7.6	72	56	65.2	30	25.0
20	7.7	8.5	71	55	63.3	30	25.0
31.25	9.9	10.8	68	52	58.1	30	23.6
62.5	13.7	15.5	64	47	50.3	30	21.5
100	17.8	19.9	62	44	44.2	30	20.1
155	22.0	22.5	58	41	36.0	28	18.8
200	25.3	29.2	56	40	30.7	26	18.0
250	28.2	33.0	54	38	25.8	25	17.3
300	31.8	-	53	-	21.2	23	-
350	33.9	-	50	-	16.1	22	-

The performance data given are typical measured values

Part Number	AWG Size	Type	Colour of Jacket Inner / Outer	Cal. potential MJ/km
145001	24	Outdoor	Ivory / Black 	360