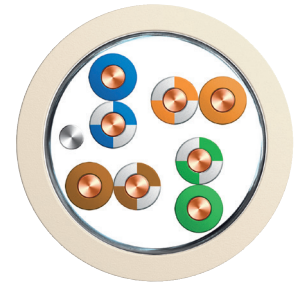


SureLAN® 5e F/UTP LSZH FireFighter IEC60332-1

Cable Design *4x2x24awg F/UTP*

Conductor	Solid bare copper wire (24awg)
Diameter	Ø 0,500 mm
Insulation	Polyethylene (PE)
Diameter	Ø 0,95 mm
Core identification	WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
Assembly	2 cores twisted to a pair
Core	4 Shielded pairs
Drain Wire	Solid tinned copper
Screen	Aluminium/polyester tape
Outer Jacket	LSZH FireFighter®
Diameter	Ø 6,00 ± 0,25 mm



Application

High speed data transmission functionality designed typically for use in horizontal cable installation of local computer networks. IEEE 802.3, IEE 802.5, FDDI, ATM, RNIS. These cables operate to the protocol supported by Class D as set out in ISO/IEC 11801 although they can transmit at frequencies of up to 200MHz..

Electrical Data at 20° C

Complete conductor resistance	≤ 190 Ω/km
Resistance unbalance	≤ 2 %
Dielectric strength (continuous current)	1kV during 1min=no breakdown
Insulation resistance (500V)	≥ 5000 MΩ . km
Capacitance unbalance Real-ground	≤ 1600 pF/km
Characteristic impedance at 100 MHz	100 ± 5 Ω
Nom. Velocity	78 %
Transfer Impedance	1 MHz ≤ 40 mΩ/m
	10 MHz ≤ 40 mΩ/m
	30 MHz ≤ 50 mΩ/m
	100 MHz ≤ 200 mΩ/m
Insulation Test Voltage	700 V AC

Frequency (MHz)		4	10	20	62.5	100	155**	200**
Max. Attenuation (dB/100m)	Typical value	3.8	6	8.5	15.2	19.5	25	28
	Cat. 5e* (max.)	4.1	6.5	9.3	17	22	-	-
Min. NEXT (dB)	Typical value	63	57	52	45	42	39	37
	Cat. 5e* (min.)	56.3	50.3	45.8	38.4	35.3	-	-
Min. ACR (dB)	Typical value	59.2	51	43.5	29.8	22.5	14	9
	Cat. 5e* (min.)	52.2	43.8	36.5	21.4	13.3	-	-
PS NEXT (dB)	Typical value	60	54	49	42	39	36	34
	Cat. 5e* (min.)	53.3	47.3	42.8	35.4	32.3	-	-
ELFEXT (dB/100m)	Typical value	63	55	48	39	35	31	29
	Cat. 5e* (min.)	52	44	38	28	24	-	-
PS ELFEXT (dB/100m)	Typical value	60	52	45	36	32	28	26
	Cat. 5e* (min.)	49	41	35	25	21	-	-
Return Loss (dB)	Typical value	25	25	25	23.8	23	22	21
	Cat. 5e* (min.)	23	25	25	21.5	20.1	-	-

* Category 5 acc. to IEC 61156-5






** For information only

Table continues on next page....

Mechanical & Thermal Characteristics

Bending radius	Dynamic (installation)	≥ 50 mm
	Static (installed)	≥ 25 mm
Temperature range	in service	-20°C up to +60°C
	at installation	-0°C up to +50°C
	transport & storage	-0°C up to +50°C
Max. Pulling Tension		80 N
Weight		36 kg/km

Specification

Part Number	Type	Colour	PCS (superior calorific capacity)	
			<i>MJ/km</i>	<i>kWh/m</i>
4969	LSZH	Ivory RAL 1015 	303	0,084
4969-03	LSZH	Green 	303	0,084
4969-05	LSZH	Grey 	303	0,084
4969-08	LSZH	Orange 	303	0,084
4969-09	LSZH	Violet 	303	0,084