

# LZ-NET 6

# LOCAL AREA NETWORKS PROTECTION



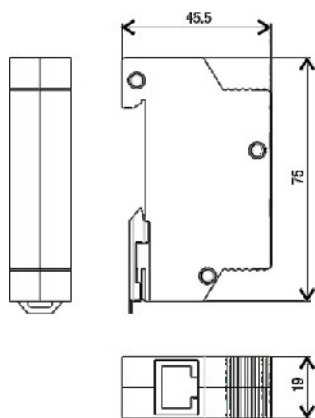
<b>Design:</b>	<b>Compact packaging</b>
<b>Protection:</b>	<b>All 4 pairs protected</b>
<b>Nom. Operating Voltage <math>U_n</math>:</b>	<b><math>\pm 48V_{DC}</math></b>
<b>Max. Operating Voltage <math>U_c</math>:</b>	<b><math>\pm 48V_{DC}</math></b>
<b>Freq:</b>	<b>&lt; 250MHz, Cat 6 capable</b>
<b>Surge Discharge Ratings <math>I_n</math>:</b>	<b>250A 8/20<math>\mu</math>s per line</b>
<b>Enclosure:</b>	<b>UTB in-line patch</b>
<b>Termination:</b>	<b>RJ45, shielded</b>

The LZ-NET 6 series is intended to protect Local Area Networks (LAN) from over voltage surges and electrostatic discharges created by switching transients in buildings. LAN systems are particularly prone to such disturbances because of the often long cable lengths involved which behave like antennas to such atmospheric disturbances. It provides protection to all 8 lines in the UTP, STP and is **Cat 6 capable**. Ground potential equalization between signal and protective (network or PC chassis) ground is provided.

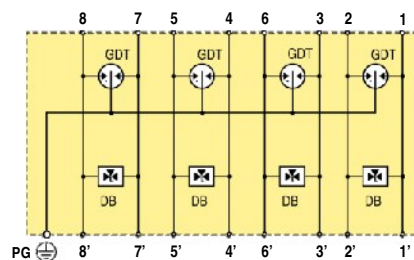
### Technical characteristics

Type		LZ-NET 6
Protection construction		protective module
Nominal operating voltage	$U_n$	48V <sub>DC</sub>
Max. continuous operating voltage	$U_c$	48V <sub>DC</sub>
Nominal operating current	$I_L$	1A
Nominal discharge current (8/20 $\mu$ s)	$I_n$	150A line - line
Total nominal discharge current (8/20 $\mu$ s)	$I_n$	10kA lines - PG
Voltage protection level at $I_n$	$U_p$	150V line - line 550V line - PG
Limit frequency	$f_B$	< 250MHz (Class E)
Response time of overvoltage protection	$t_A$	< 1ns
Connection		Input/Output: RJ45 sockets, all 4 line pairs protected
Operating temperature		-40°C ... +80°C
Degree of protection		IP 20
Housing material		Metal
Tested to		IEC-61643-21
Category IEC		III
Ordering code		706 301

### Dimensional drawings



### Connection diagram



Legend:

GDT	gas discharge tube
DB	diode block
PG	protective grounding