



TELECOM LINE PROTECTOR

Provides superior lightning and surge protection for telecommunication lines like PSTN, ISDN, DDN and DSL using twisted pair

- ◆ Single port or multi-port protection
- ◆ Versatile telecom lines protection (PSTN, ISDN, DDN, xDSL)
- ◆ All mode protection
- ◆ Multi-stage protection offers exceptional safety
- ◆ High surge rating & bandwidth
- ◆ Simple plug-in installation



Single-port or multi-port protection -

TLP series of telecommunication lines protectors offers a flexible surge protection solution that can grow with your requirements. It is available for single port telecom terminal protection and multiport protection with a maximum of 24 port, 19" rack-mounting applications using RJ45 or RJ11 connectors.

Versatile telecom lines protection

-TLP series are designed to protect all widely used telecommunication lines like PSTN, ISDN, DDN and xDSL using twisted pairs. Different connectors like RJ45, RJ11 and British plug/socket are available.

All mode protection-

Transient overvoltage due to lightning induced surges, AC power interference and ground loop energies appearing between any signal pair and/or its ground can damage the sensitive telecommunication equipment. TLP series protector are uniquely designed to protect both common and differential mode in all the connected pins of the RJ45 or RJ11 port and

its ground lead.

Multi-stage protection offers

exceptional safety -TLP series are multi-stage design which employed sophisticated hybrid circuitry by using a combination of high energy gas discharge tube, ultra fast diodes and SAD which results in maximum system reliability and up-time.

High surge rating & bandwidth -

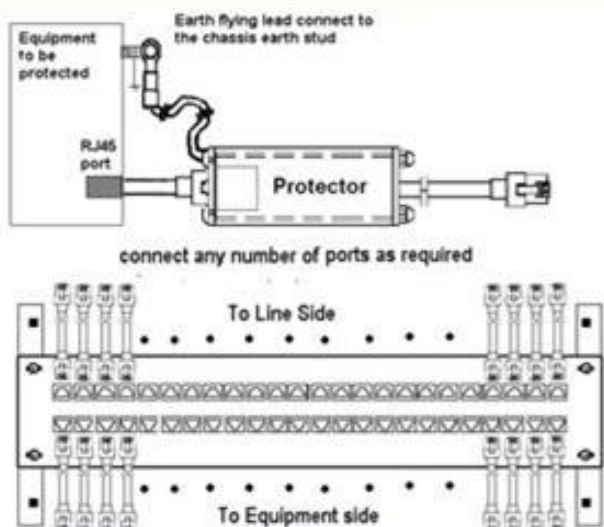
With its 20KA surge handling capability and 20MHz high bandwidth, it can provide the safest protection in lightning intense environment and also ensures a smooth data traffic.

Simple plug-in installation-

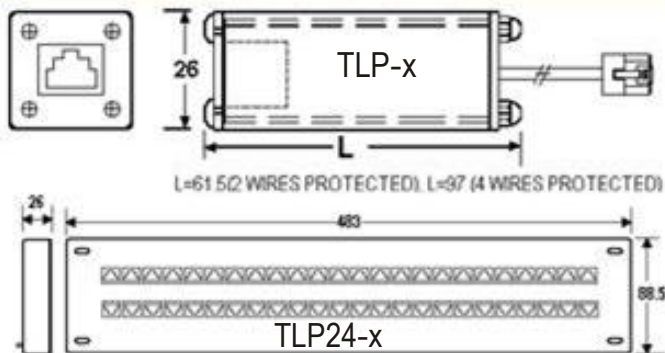
The compact, in-line and simple plug-in design enables it to be easily located near to the protected equipment. When multiport protection are required, the 19" rack-mounting models can be chosen which can hold up to 24 ports and only occupying 2U space



Installation



Dimensions



Ordering Information

MODEL	DESCRIPTION
TLP-PSTN/L2	single RJ45 port, 2 wires, PSTN line Protector
TLP-PSTN/L4	single RJ45 port, 4 wires, PSTN line Protector
TLP-ISDN/L4	single RJ45 port, 4 wires, ISDN line Protector
TLP-DDN/L4	single RJ45 port, 4 wires, DDN line Protector
TLP-DSL/L4	single RJ45 port, 4 wires, DSL line Protector
TLP-PSTN/T2	single RJ11 port, 2 wires, PSTN line Protector
TLP-PSTN/T4	single RJ11 port, 4 wires, PSTN line Protector
TLP-ISDN/T4	single RJ11 port, 4 wires, ISDN line Protector
TLP-DDN/T4	single RJ11 port, 4 wires, DDN line Protector
TLP-DSL/T4	single RJ11 port, 4 wires, DSL line Protector

TLPx-PSTN/L2	x (from 4 to 24) RJ45 port, 2 wires, PSTN line Protector
TLPx-PSTN/L4	x (from 4 to 24) RJ45 port, 4 wires, PSTN line Protector
TLPx-ISDN/L4	x (from 4 to 24) RJ45 port, 4 wires, ISDN line Protector
TLPx-DDN/L4	x (from 4 to 24) RJ45 port, 4 wires, DDN line Protector
TLPx-DSL/L4	x (from 4 to 24) RJ45 port, 4 wires, DSL line Protector
TLPx-PSTN/T2	x (from 4 to 24) RJ11 port, 2 wires, PSTN line Protector
TLPx-PSTN/T4	x (from 4 to 24) RJ11 port, 4 wires, PSTN line Protector
TLPx-ISDN/T4	x (from 4 to 24) RJ11 port, 4 wires, ISDN line Protector
TLPx-DDN/T4	x (from 4 to 24) RJ11 port, 4 wires, DDN line Protector
TLPx-DSL/T4	x (from 4 to 24) RJ11 port, 4 wires, DSL line Protector

Notes:

- The "X" can be any number of ports from 4 to 24, e.g. If 8 RJ45 ports of DSL line are required, order TLP8-DSL/L4
- The single port models are male(RJ45/RJ11 plug) to female (RJ45/RJ11 socket) configuration. If male to male(M/M) or female to female(F/F) is required, pls add "/M" or "/F" at the suffix of the model number
- If British Plug to Socket is required, pls replace the "/T" or "/L" by "/B".

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General Specifications

Max. working voltage: (Line to line)	190V (PSTN) 60V (ISDN) 68V (DDN) 50V (xDSL)
Max. operating current:	150mA
Protection modes:	Common and transverse
Lines protected:	2 wires(RJ11-pin3&4, RJ45-pin4&5) 4 wires(RJ11-pin3&4,2&5 RJ45-pin4&5,3&6)
Response time:	<5ns
Max. surge rating:	20KA(8/20 μs)
Max. data rate:	20Mb/s
Let through voltage: (At 5KV 10/700μs)	220V (PSTN) 80V (ISDN) 78V (DDN) 60V (xDSL)
Shunt capacitance:	<150pF
Insertion loss: (At 144KHz)	<0.2dB
In line resistance:	3.Ω
Standards compliance:	BS6651-1999 AS1768-2003 IEC61643-21 ITU(CCITT)1X K17
Connector type:	RJ45 or RJ11
Earth connection:	Flying lead (single port models) Earth stud (rack-mount models)
Enclosure material:	Anodized aluminum (single port) Galvanized steel alloy (multi-port)
Operating temperature:	-40 - 85°C
Humidity:	0 - 95% (R.H.)
Altitude:	0 - 3650m
Weight:	
TLP -x (2 wires models)	65g
TLP -x (4 wires models)	99g
TLP8 -x (2 wires models)	1.06kg
TLP8 -x (4 wires models)	1.13kg
TLP16 -x (2 wires models)	1.16kg
TLP16 -x (4 wires models)	1.29kg
TLP24 -x (2 wires models)	1.26kg
TLP24 -x (4 wires models)	1.45kg

