

TL-12C, TL-25C, TL-50C, TL-100C—BUILDING ENTRANCE TERMINALS ANALOG/DIGITAL VOICE

Building Entrance Terminals



Features

- **Primary/Isolated Loop (UL497/UL497B)**—UL Listing is critical for ensuring safety and performance of protection devices.
- **Solid-state protection**—Provides the fastest response to transient voltages (1–5 nanoseconds) by quickly diverting damaging surges to ground.
- **Size**—12-pair, 25-pair, 50-pair and 100-pair protection.
- **Single pair protection**—Protect only the lines requiring protection.
- **Rack mounted or wall-mounted**—First Building Entrance Terminal in the industry to mount to standard 19" rack (except TL-12C must be wall-mounted).
- **Streamlined Installation**—Punch down the OSP cable on the "Line" side and punch down the UTP cable on the "Equipment" side of the integral 110 connectors.
- Individual Five Pin Modules offer system scalability and serviceability.
- Covered to provide added security and durability and ensure your transmission certification.
- Gold plated contacts for corrosion resistance.
- Integral cable management and strain relief and durable black painted steel housings.
- Grounding hardware included.

Technical Specifications

Designs and specifications are subject to change without notice due to product improvement.

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497 (Primary)
LED Indicators	N/A
Performance Rating	Category 3
Grounding Requirements	Field installed solid cooper wire
	#6 AWG for Primary
	#14 AWG for Isolated Loop
Recommended Ground Impedance	< 0.5 Ohm
Termination Type	110 punchdown
Width	see ordering information below
Height	19"
Depth	4.1"
Product Warranty	Lifetime
Connected Equipment Warranty	N/A

SIGNAL LINE SURGE PROTECTION:

TELCO CIRCUIT PROTECTION

Signal Perfect Circuitry	N/A
Fuseless/Auto-Resettable	N/A
Clamping Level	N/A
Response Time	N/A
Capacitance	N/A
Suppression Modes	N/A
Wires Protected	N/A
Termination Type	N/A

LAN CIRCUIT PROTECTION

Signal Perfect Circuitry	N/A
Fuseless/Auto-Resettable	N/A
Performance Rating	N/A
Clamping Level	N/A
Response Time	N/A
Wires Protected	N/A
Termination Type	N/A

For up-to-date warranty information see our web site: www.itwlinx.com



More information is available in the Technical Reference section of this catalog, turn to page 92.

Ordering Information

ITW Linx Part Number	Description
TL-12C	12-pair Cat 3 rated BET with cover, Wall-mount only, 4.3" × 10.2" × 4.1".
TL-25C	25-pair Cat 3 rated BET with cover, Rack- or wall-mountable, 5.2" × 19" × 4.1".
TL-50C	50-pair Cat 3 rated BET with cover, Rack- or wall-mountable, 8.7" × 19" × 4.1".
TL-100C	100-pair Cat 3 rated BET with cover, Rack- or wall-mountable, 15.7" × 19" × 4.1".

Applications:

- Telephone Systems
- Workstations
- Fax Machines
- Cameras
- Access Controls
- Alarms

TeleLinx

FPP4 & FPP6—CATEGORY 3 FIVE PIN SURGE PROTECTION MODULES

Features

- UL Listed for Primary (497) and Secondary (497A) applications. UL Listing is critical for ensuring safety and performance of protection devices.
- Solid-state protection provides the fastest response time to transient voltages (1–5 nanoseconds) by quickly diverting damaging surges to ground.
- Solid-state protection automatically resets without user intervention.
- Signal Pins are Gold Plated and Ground Pin is Tin Plated
- Single pair protection—Scale the protection to the system size. Protect only the lines requiring protection.
- FPP6 contains resettable PTC fuses to decrease service calls and replacements cost.



Technical Specifications

PRODUCT SPECIFICATIONS:

Agency Approval	UL 497 (Primary), 497A (Secondary)
LED Indicators	N/A
Solid-state Circuitry	Yes
Grounding Requirements	Field installed solid cooper wire
	#6 AWG for Primary
	#10 AWG for Secondary
	#14 AWG for Isolated Loop
Recommended Ground Impedance	< 0.5 Ohm
Termination Type	Five Pin
Width	.75"
Height	3.5"
Depth	0.51"
Weight	0.02 lbs
Product Warranty	Lifetime
Connected Equipment Warranty	N/A

Designs and specifications are subject to change without notice due to product improvement.

SIGNAL LINE SURGE PROTECTION:

TELCO CIRCUIT PROTECTION

Signal Perfect Circuitry	Yes
Fuseless/Auto-Resettable	Yes
Clamping Level (FPP4 & FPP6)	75V, 235V, 300V
Clamping Level (FPPCAT6)	75V, 235V
Response Time	1–5 Nanoseconds
Capacitance	< 50pF
Suppression Modes	Metallic & Longitudinal
Wires Protected	2-wires, 1-pair
Termination Type	Five Pin Block

LAN CIRCUIT PROTECTION

Signal Perfect Circuitry	Yes
Fuseless/Auto-Resettable	Yes
Performance Rating	Category 6
Clamping Level (FPPCAT6-16)	16V
Response Time	1–5 Nanoseconds
Capacitance	< 50pF
Wires Protected	2-wires, 1-pair
Termination Type	Five Pin Block

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Ordering Information

ITW Linx Part Number	Fuse Rating	UL Primary	UL Secondary	UL Isolated Loop	Application	Performance	Max. Operating Voltage (AC & DC)	Clamping Voltage
FPP4-75	350mA	✓	✓	—	Voice/Fax/Modem	250 kHz	35.1–60.0 Volts	75 Volts
FPP4-235	350mA	✓	✓	—	Voice/Fax/Modem	250 kHz	200 Volts Peak	235 Volts
FPP4-300	350mA	✓	✓	—	Voice/Fax/Modem	250 kHz	300 Volts Peak	300 Volts
FPP6-75	160mA	—	✓	—	Voice/Fax/Modem	1.544 MHz	35.1–60.0 Volts	75 Volts
FPP6-235	160mA	—	✓	—	Voice/Fax/Modem	1.544 MHz	200 Volts Peak	235 Volts

FPPCAT6 protectors must be used in conjunction with ITW Linx DataLinx™ Category 6 BET for Category 6 performance.

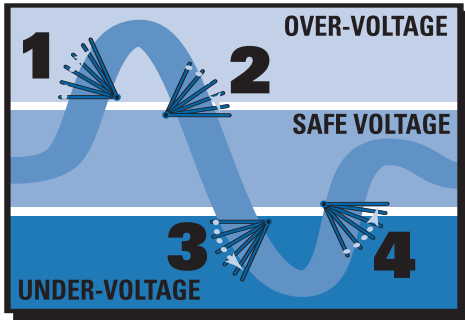
Applications:

- Telephone Systems
- Work-stations
- Fax Machines
- Cameras
- Access Controls
- Alarms

ITW LINX INNOVATIVE PROTECTION CIRCUITRY FEATURING:

SurgeGate Plus Circuitry

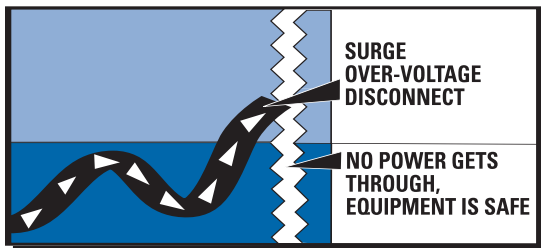
Protects against prolonged overvoltages and undervoltages by automatically disconnecting the power to your equipment, then reconnecting it when the power has returned to a safe level. This patented circuitry acts as a gate to prevent unsafe voltages from damaging sensitive equipment.



- 1.) Overvoltage **DISCONNECT**
- 2.) Safevoltage **RECONNECT**
- 3.) Undervoltage **DISCONNECT**
- 4.) Safevoltage **RECONNECT**

Protect or Disconnect Circuitry

Protects equipment against all surges. In the event of a catastrophic surge such as lightning, it completely disconnects AC power to the connected equipment and to the protector.



Signal Perfect Circuitry

Auto-resetting surge protection for data networks, telephone and coax lines. This optimized circuitry ensures a clean, clear signal and features solid-state suppressors for maximum protection and reliability.

