

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

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

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



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)	
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	
Performance Rating	
Clamping Level (FPPCAT6-16)	16V
Response Time	
Capacitance	< 50pF
Wires Protected	2-wires, 1-pair
Termination Type	Five Pin Block



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

Ordering Information

ITW Linx Part Number	Fuse UI Rating Pri	_	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	_	1	_	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.





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Applications:

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

Building Entrance Terminals



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



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 d own 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	
Width	see ordering information below
Height	
Depth	4.1"

Connected Equipment Warranty N/A

TWAcommocom

http://www.TWAcomm.com Toll Free: (877) 892-2666

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



SIGNAL LINE SURGE PROTECTION: TELCO CIRCUIT PROTECTION

	Signal Periect Circuitry	
	Fuseless/Auto-Resettable N/A	
	Clamping Level	
	Response Time	
	Capacitance	
	Suppression Modes N/A	
	Wires Protected N/A	
	Termination Type N/A	
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r /	IN CIDCULT DEOTECTION	

LAN CIRCUIT PROTECTION

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



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

Applications:

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

Ordering Information

Sold by:

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

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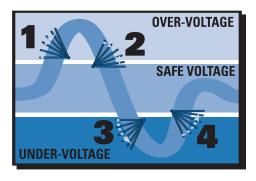




ITW LINX INNOVATIVE PROTECTION CIRCUITRY FEATURING:

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.

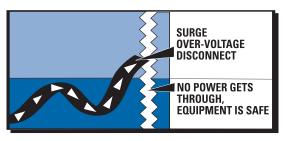


- 1.) Overvoltage **DISCONNECT**
- 2.) Safevoltage **RECONNECT**
- 3.) Undervoltage **DISCONNECT**
- 4.) Safevoltage RECONNECT



Protect or Disconnect Circuitry

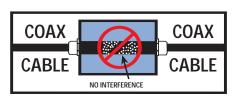
Protects equipment against all surges. In the event of a catastrophic surge such as lightning, it completely disconnects AC power to the connected equipment and to the protector.





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.











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