

51300 Termination Protection Assembly



The 51300 Termination Protection Assembly (TPA) is installed at a building location where cable locate and/or monitoring terminations are required. The 51300 is used at the cable of origin in the cable vault or at the building entry point to safely terminate a fiber optic cable armor, locate wire or copper pair conductor. The assembly is pre-wired in an enclosure to allow for easy installation at the building entry location.

The assembly provides termination for fiber optic cable armors, locate wire and copper pair conductors that are under the control of a Norscan Cable Management System (2000 CMS or 4200 CMS unit). These terminations include a Line Termination Unit (LTU) which terminates locate tones above 250 Hz and a 2230 Sequences Termination Unit (STU) which terminates the cable monitoring functions. Both the LTU and STU contain a high voltage surge arrester that provides low impedance ground path for high voltage transients. Induced voltage filtering for 60 Hz is also provided through the 2303 IVF device that is installed within the 51300 TPA.

Features

- Available in single or dual line units
- Pre-wired to simplify office installation
- LTU terminates tone signal generation from Central Office
- STU terminates cable monitoring applications
- Provides low impedance ground path for high transient voltages
- Provides low impedance ground path for 60 Hz induced voltages
- Fiberglass polyester enclosure which meets NEMA and CSA standards for electrical enclosures

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Specifications

ITEM	QUANTITY/SPECIFICATION	NOTES
Protection		
AC Voltage Rating	150 VAC 60 Hz @ 25C	
	(Continuous)	
DC Breakdown Voltage	335 – 505v @ 100 v/sec	
Impulse Breakdown	1000v at 1000 v/μsec	
Impulse Current Rating	40,000 A 20,000 A 1,000 A	8/20μs, > 1 operation 8/20μs, > 10 operations 10/1000μs, > 400 operations
Protection		
Induced Voltage Filtering		
Voltage Reduction Ration (typical) (Zsource = 200Ω, IF = 500 ma)	7:1	VI / Vf
Maximum Voltage (Continuous)	20 V	AC RMS
(5 min.)	250 V	AC RMS
Clamping Voltage (typical)	15 V	AC RMS
Impedance (nominal)	30 Ω @ 60 Hz (I = 500 ma) 1200 Ω @ 30 Hz 7000 Ω @ 512 Hz	
Physical		
Dimensions	14" x 12" x 7" (35.6 cm x 30.5 cm x 17.8 cm)	
Weight	14.5 lbs (6.6 kg)	
Model Number(s)	51300 TPA	Two line unit
	51300-1 TPA	Single line unit

AVAILABLE IN SINGLE OR DUAL LINE UNITS

PRE-WIRED TO SIMPLIFY OFFICE INSTALLATION

LTU TERMINATES TONE SIGNAL GENERATION FROM CENTRAL OFFICE

STU TERMINATES CABLE MONITORING APPLICATIONS

PROVIDES LOW IMPEDANCE GROUND PATH FOR HIGH TRANSIENT VOLTAGES

PROVIDES LOW IMPEDANCE GROUND PATH FOR 60 HZ INDUCED VOLTAGES

FIBERGLASS POLYESTER ENCLOSURE WHICH MEETS NEMA AND CSA STANDARDS FOR ELECTRICAL ENCLOSURES

For more information on any of our products or services, please visit us on the web at:
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