

Features

- Multi-Stage Protection (MSP®)
- Balanced TRIGARD® GDT
- Self-resetting sneak current protection with Bourns® TBU® devices
- Overcurrent and overvoltage protection
- Quick response to surges
- High energy handling



2377 MSP®/TBU® Series Digi-Guard™ Station Protector

Bourns® 2377 MSP®/TBU® series is a new generation telecommunications station protector designed to be the best choice for protection of high-speed network data circuits. Bourns® 2377 MSP®/TBU® series protectors integrate four advanced technologies: our proprietary advanced TRIGARD® GDT, precision matched metal oxide varistors (MOVs), a switch-grade fail-short mechanism, and our TBU® (Transient Blocking Unit) technology which protects the circuit by rapidly switching to a blocking state. These technologies are combined to provide robust overvoltage and fast, resettable sneak current protection with extremely low energy let-through. Additionally, the MSP®/TBU® series has very low loss characteristics, making it the ultimate choice for protection of sensitive, high speed communication lines.

A continuous DC bias such as sealing current or remote powering (span powering) can hold the TBU® device in a high resistance blocking state after the fault has passed. The TBU® device can be reset by momentarily disrupting the loop current or providing a low voltage (V_{reset}) condition on the line.

Characteristics

Test Methods per IEEE C62.31, UL 497, CSA C22.2, Telcordia GR 1361 and applicable sections of Telcordia GR 974.

DC Breakdown		300-400 V
AC Breakdown	60 Hz	300-400 V
Impulse Breakdown	100 V/µs	600 V
·	1000 V/µs	
Insulation Resistance		
Insertion Loss	100 MHz	< 0.4 dB (Category 5)
Return Loss		
Capacitance Line to Line	1 MHz	14 pF typical
Capacitance Line to Ground	1 MHz	28 pF typical
Line Resistance		12 ohms typical
Impulse Reset ¹		
	135 V, 200 mA	< 10 ms ³
	150 V, 200 mA	< 150 ms
Impulse Life Characteristics	100 A, 10/1000 μs	3000 operations ²
(Per Side, Simultaneously)	300 A, 10/1000 μs	
	500 A, 10/1000 μs	1000 operations ⁴
	2,000 A, 10/250 μs	100 operations ²
	5,000 A, 20/100 μs	10 operations ²
	20,000 A, 8/20 μs	
AC Life Characteristics	0.5 A rms continuous	30 seconds
	1 A rms, 1 second, 600 ft. cable	60 operations
	1 A rms, 1 second, 1 mile cable	60 operations
	10 A rms, 1 second	20 operations
	200 A rms, 11 cycles	1 operation ⁵
	120 A rms, 0.1 second	1 operation
Life Test Criteria		
Insulation Resistance Throughout the Life Test		
Life Test Failures		
Failures During Environmental Cycling w/surges		
Fail-Short (Vented or Non-vented Gas Tube)		
Operating Temperature		
Moisture Sensitivity Level		
ESD Classification (HBM)		N/A

Notes:

- ¹ Network applied.
- ² Exceeds Telcordia (Bellcore) GR 1361.
- ³ Surpasses Telcordia GR 974.
- ⁴ RUS (REA) PE-80.
- ⁵ Protector may short to ground.

Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.

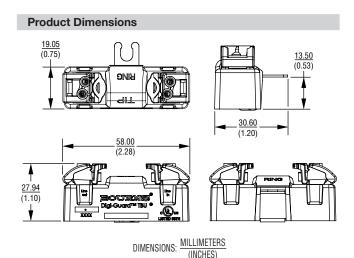


Features (Continued)

- Switch-Grade Fail-Short
- Insulation Displacement Connectors (IDCs)
- High-speed network compatible such as ADSL2+ and VDSL2
- UL Pending

2377 MSP®/TBU® Series Digi-Guard™ Station Protector

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How To Order

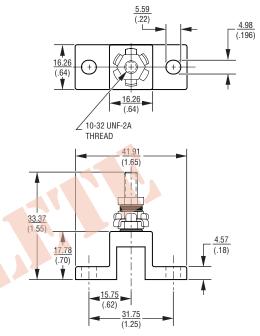
2377-45-HS-TBU	Standard Model
2377-45-BC-TBU*	Balanced Capacitance

*BC versions are for xDSL systems that require Tip-to-Ground and Ring-to-Ground capacitive balance of ≤1 pF.

Related Products 80052.....Test Clip for IDC

80053..... Insulation Tool for IDC

2372-02 Ground Mounting Stud (Order Separately) $\underline{5.59}$



DIMENSIONS: MILLIMETERS (INCHES)

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Users should verify actual device performance in their specific applications.

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