

Features

- Multi-stage protection
- Balanced TRIGARD®
- Quick response to surges
- High energy handling
- Reliability is improved by elimination of the air Back-Up-Gap (BUG)
- Meets test requirements of Telcordia GR 974, GR1361, SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1843
- High-speed network compatible

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- Binding post or optional Insulation Displacement Connectors (IDC)
- c(l) us UL Listed per UL 497 (File: E53117)

2377-45 Series Digi-Guard™ – MSP® Maximum Duty Station Protector

Bourns® Model 455HS Multi-Stage Protector (MSP®) is a new generation telecommunications station protector designed to be the best all around choice for protecting copper pair voice-band and high-speed data circuits. Combining the strengths of Gas Discharge Tube (GDT) and solid state overvoltage protection, the Model 455HS MSP® integrates three advanced technologies: our proprietary advanced GDT, precision matched metal oxide varistors (MOV), and a patented Switch-Grade Fail-Short mechanism. The 2377 series offer superior service life, far exceeding Telcordia standards.

Bourns® 2377-45 can be used universally for POTS and high speed data, e.g. ISDN, ADSL, ADSL2+, VDSL2, other xDSL protocols and high speed Ethernet. Bourns® MSP® technology provides unparalleled overvoltage protection with low loss on paired copper communications circuits. The Model 455 is the most economical, reliable and effective choice to protect paired copper communications circuits. The IDC version, with environmental sealant, provides additional ease of installation and protection against corrosion.

Characteristics

Tested 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		
•	1000 V/µs	
Insulation Resistance	100 Vdc	>1 GΩ
Insertion Loss		
Return Loss		
Capacitance Line to Line - Binding Post		
Capacitance Line to Line - IDC	1 MHz	14 pF typical
Capacitance Line to Ground - Binding Post	1 MHz	24 pF typical
Capacitance Line to Ground - IDC	1 MHz	28 pF typical
Impulse Reset ¹		
'	135 V, 200 mA	< 10 ms ³
	150 V, 200 mA	
Impulse Life Characteristics ²	,	
(Per-Side, Simultaneously)	100 A, 10/1000 µs	> 3000 operations
, , , , , , , , , , , , , , , , , , , ,	300 A, 10/1000 µs	
	500 A, 10/1000 μs	
	2,000 A, 10/250 µs	
	5,000 A, 20/100 µs	
	20,000 A, 8/20 μs	
AC Life Characteristics		
	1 A rms, 1 second, 600 ft. cable	> 60 operations
	1 A rms, 1 second, 1 mile cable	
	10 A rms, 1 second	
	200 A rms, 11 cycles	
	120 A rms, 0.1 second	
Life Test Criteria	•	•
Insulation Resistance Throughout the Life Test		100 MΩ
Life Test Failures		
Failures During Environmental Cycling w/ surges		0.0 %
Fail-Short (vented or non-vented gas tube)		
Operating Temperature		55 to +85 °C
Moisture Sensitivity Level		
ESD Classification (HBM)		N/A
,		

Notes:

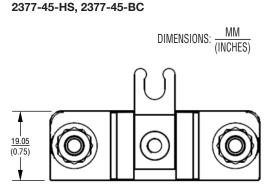
- ¹ Network Applied
- ² Exceeds Telcordia (Bellcore) GR 1361
- ³ Surpasses Telcordia GR 974
- 4 RUS (REA) PE-80
- ⁵ Protector may short to ground

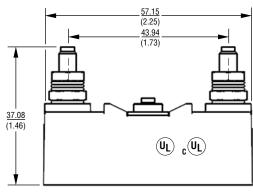
Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.

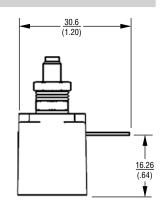


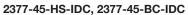
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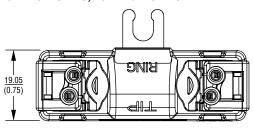
Product Dimensions

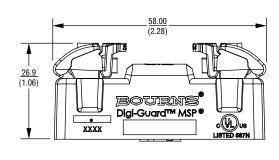


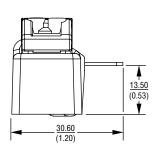




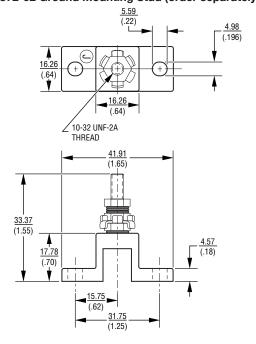








2372-02 Ground Mounting Stud (order separately)



How To Order

2377-45-HS	Binding Post Connectors
	Balanced Capacitance,
	Binding Post Connectors
2377-45-HS-IDC	Insulation Displacement Connectors
2377-45-BC-IDC	Balanced Capacitance,
	Insulation Displacement Connectors

Related Products



80052.....Test Clip for IDC



80053..... Insulation Tool for IDC

REV. Q 05/20

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