



Features

- Low capacitance
- Balanced TRIGARD®
- Common chamber, 3-element GDT protection
- Switch-Grade Fail-Short device for fire safety
- 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
- cULus UL Listed per UL 497 (File: E53117)
- Rugged sealed construction
- Binding post or optional Insulation Displacement Connectors (IDCs)

2377-35-G Balanced Gas Tube Station Protector

Bourns® 2377-35-G protectors are ideal for economical protection of broadband telecom circuits at the subscriber premises against lightning surges, power-cross conditions and ground potential rises. Key features and benefits of this 356-style protector are:

- Low capacitance – Low loss on broadband applications.
- Balanced protection – superior protection and improved broadband performance compared to conventional dual 2-element GDT protectors.
- Switch-Grade Fail-Short device provides safer and more reliable thermal protection than solder pellet or burn through types of fail-short mechanisms.

The protector element consists of Bourns' own balanced, heavy-duty rated, 3-electrode Gas Discharge Tube (GDT). The GDT is UL Recognized to the "Gas Tube Seal Test Program", thus eliminating a key issue of conventional GDT protectors with Air-Back-Up protection. Contamination of the BUG is historically the most common failure mode in older protector styles. Proprietary advanced technology in the GDT design helps provide exceptional energy handling and a long life. A patented Switch-Grade Fail-Short mechanism provides an extra measure of safety against thermal overload. The GDT mechanism is housed in a fire-resistant body with binding posts for multiple wiring connections. The IDC version, with environmental sealant, provides additional ease of installation and protection against corrosion.

The 2377-35-G will fit Bourns and most manufacturers' network interface devices and can be used universally for POTS and broadband systems such as ADSL, ADSL2+, VDSL and VDSL2. It exceeds all CAT 5 requirements.

Characteristics

Test Methods per IEEE C62.31, UL 497, RUS PE-80, CSA C22.2, Telcordia GR 974 and 1361.

DC Breakdown	300-500 V
AC Breakdown.....	60 Hz 300-500 V
Impulse Breakdown.....	100 V/ μ s 625 V
	1000 V/ μ s 875 V
Insulation Resistance	100 Vdc > 1 G Ω
Insertion Loss	100 MHz Exceeds Category 5
Return Loss	100 MHz Exceeds Category 5
Capacitance Tip or Ring to Ground - Binding Post.....	1 MHz 3.5 pF typical
Capacitance Tip or Ring to Ground - IDC.....	1 MHz 7.5 pF typical
Impulse Reset ¹	52 V, 260 mA < 10 ms
	135 V, 200 mA < 10 ms
	150 V, 200 mA < 150 ms
Impulse Life Characteristics ³	10 A, 10/1000 μ s > 3000 operations
(Tip and Ring to Ground, Simultaneously)	100 A, 10/1000 μ s > 300 operations
	300 A, 10/1000 μ s > 100 operations
	500 A, 10/1000 μ s > 400 operations ²
	2,000 A, 10/250 μ s > 25 operations
	5,000 A, 20/100 μ s > 2 operations
	20,000 A, 8/20 μ s > 1 operation
AC Life Characteristics	0.5 A rms continuous > 30 seconds
(Tip and Ring to Ground, Simultaneously)	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 > 5 operations
	65 A rms, 11 cycles > 1 operation ²
	120 A rms, 0.1 second 1 operation
High Current Capability and Thermal Operation	> 30 A rms, 15 min.
(Tip and Ring to Ground, Simultaneously)	
Storage and Operating Temperature	-55 to +85 °C
Moisture Sensitivity Level.....	1
ESD Classification (HBM)	N/A

Notes:

¹ Network applied.

² Per RUS PE-80.

³ Exceeds Telcordia (Bellcore) GR 1361.

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



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

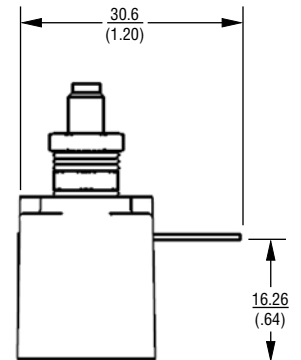
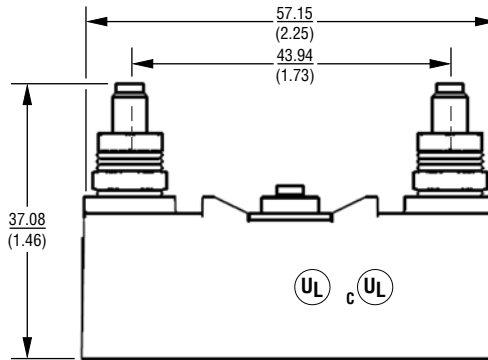
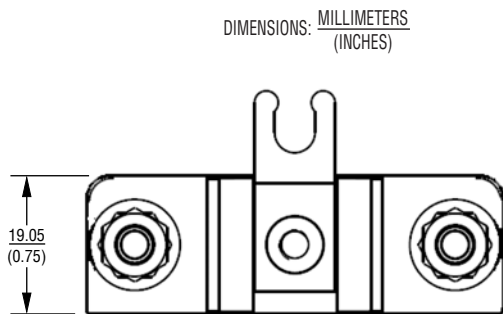
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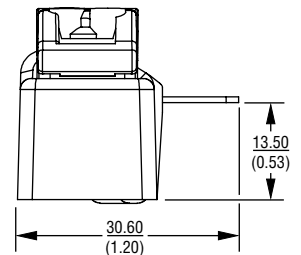
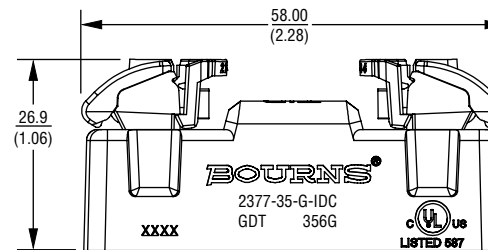
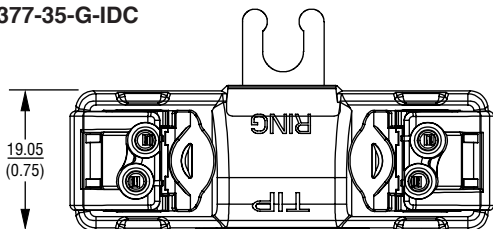
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Product Dimensions

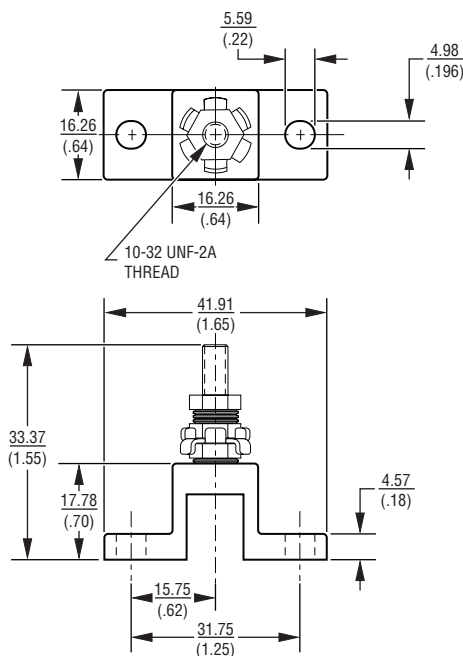
2377-35-G



2377-35-G-IDC



2372-02 Ground Mounting Stud (Order Separately)



How To Order

2377-35-G Binding Post Connectors
2377-35-G-IDC Insulation Displacement Connectors

Related Products



80052 Test Clip for IDC



80053 Insulation Tool for IDC

BOURNS®

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