



Features

- Balanced protection
- 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
- Low capacitance
- cULus UL Listed per UL 497 (File: E53117)
- Rugged sealed construction
- Binding post or optional Insulation Displacement Connectors (IDCs)
- Telcordia Analysis report DA-1843

C-2377-35-G Balanced Gas Tube Station Protector

The CNI C-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 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 a balanced, heavy-duty rated, 3-electrode Gas Discharge Tube (GDT). The GDT meets UL's Gas Tube Seal Test Program and eliminates 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. Advanced technology in the GDT design helps provide exceptional energy handling and a long life. The 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 C-2377-35-G will fit most manufacturers' network interface devices and can be used universally for PDTS and broadband systems such as ADSL, ADSL2+, VDSL and VDSL2 while exceeding 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
	10 A, 10/1000 μ s > 3000 operations
Impulse Life Characteristics ³	(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.

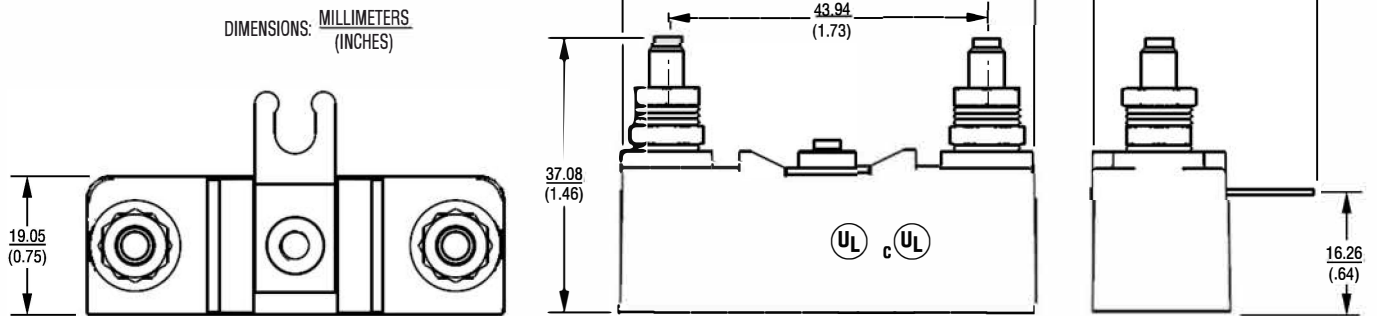
³ Exceeds Telcordia (Bellcore) GR 1361.

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

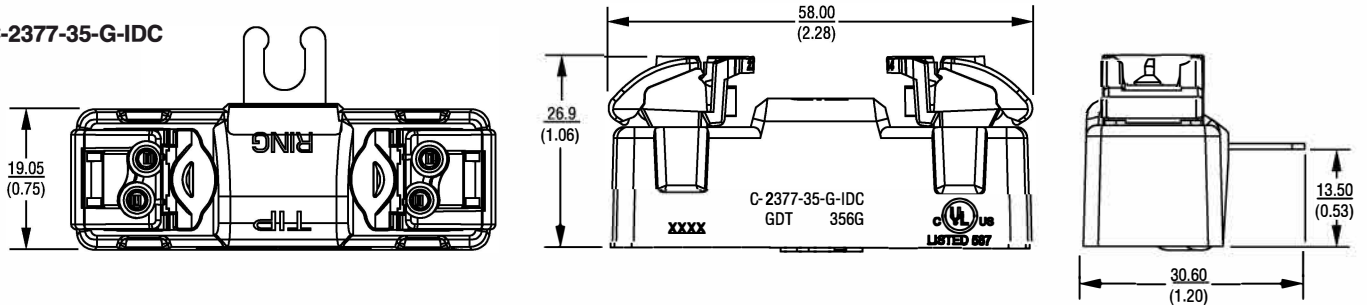
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Product Dimensions

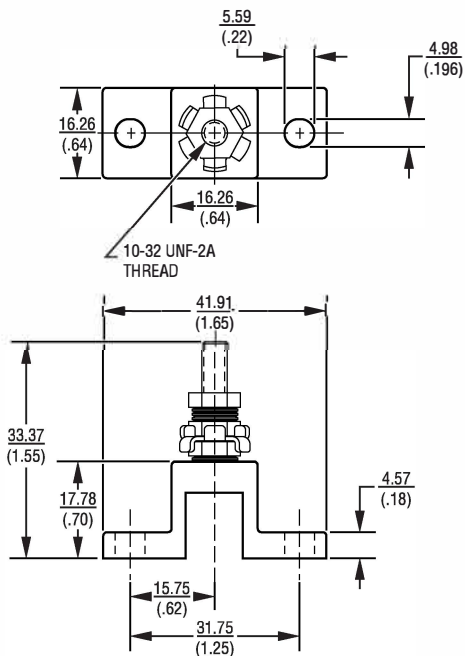
C-2377-35-G



C-2377-35-G-IDC





2372-02 Ground Mounting Stud (Order Separately)



How To Order

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

Related Products

-  MRA-TP01 Test Clip for IDC
-  MRA-IRT1 Insulation Tool for IDC