Features

- Rugged 3-electrode BUG-less GDT
- Balanced protection
- Self-resetting low resistance sneak current protection
- Switch-Grade Fail-Short device
- Quick response and high energy handling
- Ⓤ UL Listing per UL497
- Sealed option for harsh environments
- Solid brass, gold-plated pins
- Test point access option
- Telcordia Analysis report DA-1547
- Meets test requirements of GR 974, GR 1361, SBC SR 5165 and RUS PE-80
- Ideal for high-speed networks in high-exposure environments

C-2440 Series 5-Pin Surge Protector

The CNI 5-Pin C-2440 series is a new generation of telecommunications protectors for superior performance and long life. The C-2440 Series protector provides highly reliable overvoltage and self-resetting sneak current protection for copper pair voice-band and high-speed data circuits. The high-efficiency balanced Gas Discharge Tube (GDT) is UL approved for use without a Back-Up Gap (BUG). Its switch-grade Fail-Short mechanism ensures superior thermal protection with fast acting, highly reliable response to thermal overload conditions. This combined technology provides lower capacitance, higher reliability and long life. Resistors are used for sneak current protection, providing reliable and self-resetting performance with less than four ohms of resistance.

The C-2440 protectors can be used universally for broadband voice and data circuits including ADSL, ADSL2+, VDSL, VDSL2 and high-speed ethernet. The C-2440 Series is an innovative, reliable and effective choice for 5-pin protection of copper pair circuits.

Characteristics

Tested per UL 497, CSA C22.2, Telcordia GR 974, 1361 and SBC SR 5165.

DC Breakdown	280-420 V
AC Breakdown @ 60 Hz	280-420 V
Impulse Breakdown	
100 V/µs	625 V
1000 V/µs	875 V
Insulation Resistance @ 100 Vdc	> 1 GΩ
Insertion Loss @ 100 MHz	Exceeds CAT5 [1]
Return Loss @ 100 MHz	Exceeds CAT5 [1]
Capacitance Tip to Ring @ 1 MHz	< 1.25 pF typical
Capacitance Tip or Ring to Ground @ 1 MHz	< 2.50 pF typical
Impulse Reset[2]	
52 V, 260 mA	< 10 ms
135 V, 200 mA	< 10 ms
150 V, 200 mA	< 150 ms
Impulse Life Characteristics (Tip and Ring to Ground Simultaneously)	
10 A, 10/1000 µs	> 3000 operations
100 A, 10/1000 µs	> 300 operations
300 A, 10/1000 µs	> 100 operations
500 A, 10/1000 µs	> 400 operations[3]
2,000 A, 10/250 µs	> 25 operations
5,000 A, 20/100 µs	> 2 operations
20,000 A, 8/20 µs	> 1 operation
AC Life Characteristics (Tip and Ring to Ground Simultaneously)	
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	> 5 operations
65 A rms, 11 cycles	> 1 operation[3]
120 A rms, 0.1 second	1 operation
High Current Capability and Thermal Operation (T/R to Ground)	> 30 Arms, simultaneously
Storage and Operating Temperature	-55 to +85 °C
Sneak Current Characteristics	
Resistance (No Heat Coil Inductance)	< 4 ohms
Transition Current @ -40 °C (800 mA), +20 ° C (540 mA), +65 °C (300 mA)	< 210 seconds
Rated Current @ -40 °C (100 mA), +20 ° C (100 mA), +65 °C (100 mA)	> 3 hours
Impulse Life 10 x 1000 µs @ -40 °C, +20 ° C, +65 °C	25 A ELTGS

Telcordia analyzed for controlled (non-sealed) and uncontrolled high exposure (sealed) environments per GR 974 and SBC SR 5165. Please refer to Telcordia Analysis Report DA-1547 Volumes 1 and 2.

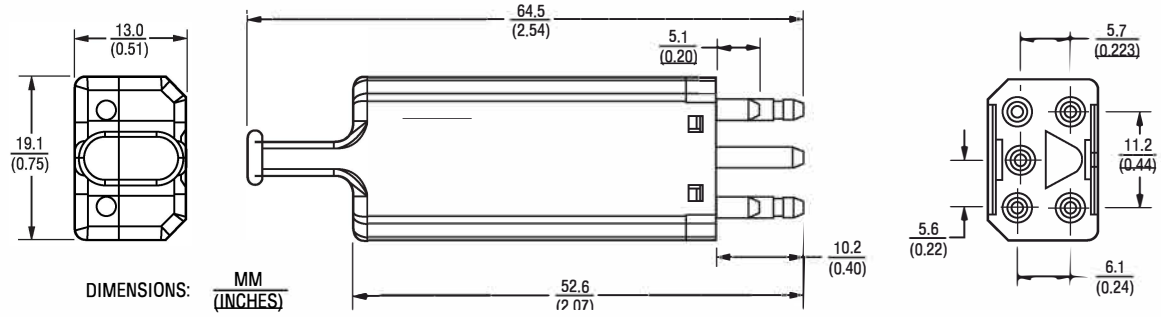
Notes:

[1] Tested according to Category 5 requirements.
[2] Network applied.
[3] Per Rus PE 80.
Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.

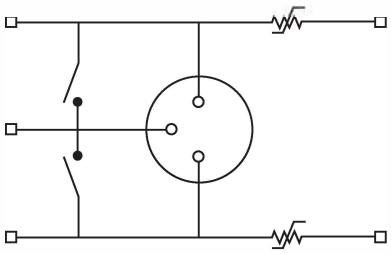
Comtest Networks Inc. (CNI)
comtestnetworks.com

C-2440 Series 5-Pin Surge Protector

Product Dimensions



Schematic



How To Order

C-2440 - 4 x - x - xx

Model Number Designator

Overcurrent Protection

Housing Color
- 1 = Black
- 3 = Red
- 6 = Blue
- 7 = Violet
- 9 = Orange
- 10 = Yellow

Pin Plating
- G = Gold Plated
- N = Tin Plated (Ground pin is tin plated on all models)

Housing Options
- S = Sealed
- T = Test Points
- ST = Sealed and Test Points

Examples:

C-2440-41-G-T = Black housing, 4 ohm self-resetting, gold-plated pins, test points

C-2440-43-N = Red housing, 4 ohm self-resetting, tin-plated pins, no test points

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