


Features

- Multi-stage protection
- Balanced protection
- Switch-Grade Fail-Short Device
- Quick response and high energy handling
- Ideal for high-speed networks in high exposure environments
-  per UL 497 (File: 53117)
- Test point access option
- Solid brass, gold-plated pins
- Telcordia Analysis report DA-1547
- Sealed option for harsh environments
- Meets test requirements of Telcordia GR 97 4, GR1361, SBC SR 5165 and RUS PE-80



C-2410 Series - 5-Pin Surge Protector

The CNI C-2410 Series 5-Pin Protector is the latest generation telecommunications protector for high performance and long life in overvoltage protection of copper pair voice-band and high-speed data circuits. The C-2410 combines the advantages of gas tube and solid-state protection while integrating three advanced technologies: a high-efficiency gas discharge tube, precision matched metal oxide varistors and a switch-grade Fail-Short mechanism. The 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 longer life than competitive hybrid technologies.

The C-2410 can be used universally for POTS and high-speed data, e.g. ISDN, ADSL, ADSL2+, VDSL, VDSL2, other xDSL protocols and high speed Ethernet. The technology used with-in the C-2410 provides unparalleled overvoltage protection with low loss on paired copper communications circuits. The C-2410 series is the most economical, reliable and effective choice for overvoltage protection of copper pair circuits.

Characteristics

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

DC Breakdown	300-400 V
AC Breakdown @ 60 Hz	300-400 V
Impulse Breakdown	
100 V/ μ s	600 V
1000 V/ μ s	650 V
Insulation Resistance @ 100 Vdc	>1 G Ω
Insertion Loss @ 100 MHz.....	<0.4 dB ¹
Return Loss @ 100 MHz.....	>14 dB ¹
Capacitance Tip to Ring @ 1 MHz	10 pF typical
Capacitance Tip or Ring to Ground @ 1 MHz	20 pF typical
Impulse Reset ⁵	
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 to 100 A, 10/1000 μ s	>3000 operations ²
300 A, 10/1000 μ s	>1000 operations ²
500 A, 10/1000 μ s	>1000 operations ⁴
2,000 A, 10/250 μ s	>100 operations ²
5,000 A, 20/100 μ s	>10 operations ²
20,000 A, 8/20 μ s	>10 operations ⁴
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 seconds
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 (Tip and Ring to Ground, Vented or Non-Vented Gas Tube).....	>30 A rms, simultaneously
Storage and Operating Temperature.....	-55 to +85 °C

Telcordia analyzed for controlled (non-sealed) and uncontrolled, high-exposure (sealed) environments per GR 974 and SBC SR 5165. Telcordia Technical Analysis Report DA-1547.

Notes:

- ¹ Tested according to Category 5 requirements
- ² Exceeds Telcordia (Bellcore) GR 1361
- ³ Surpasses Telcordia GR 974
- ⁴ RUS (REA) PE-80
- ⁵ Network applied

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

C-2410 Series - 5-Pin Surge Protector

How To Order

C-2410 - X XX - X - XXX - XX

Model Number Designator _____

Module Length _____
 3 = Standard: 52.37 mm (2.06 in.) 7 = Special Short: 41.19 mm (1.62 in.)

Housing Color/Circuit Type _____
 1 = Black/Standard 6 = Blue/Standard 10 = Yellow/Standard
 3 = Red/Special 9 = Orange/Standard Service (non-Bridgelifter)

Pin Plating _____
 G = Gold Plated N = Tin Plated

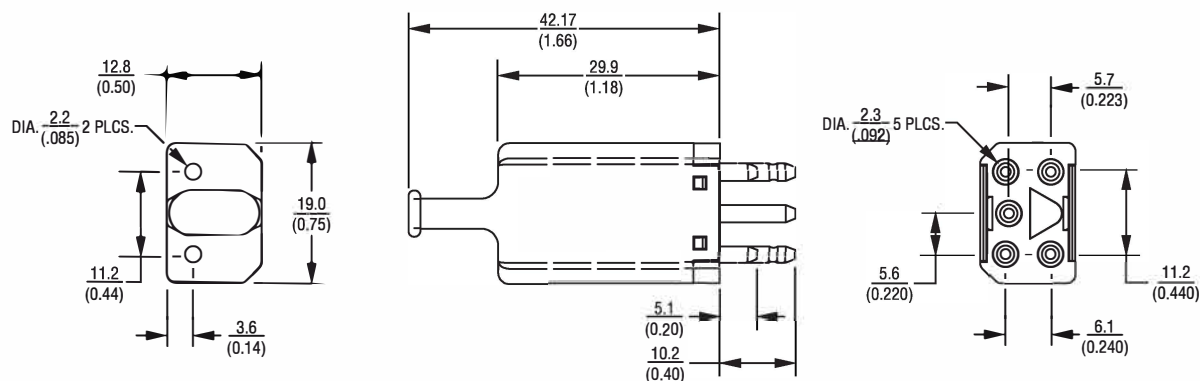
Protector Type _____
 MSP = Multi-stage protector BC = Balanced Capacitance*

Special Options _____
 S = Sealed Case ST = Sealed Case and Test Points**
 T = Test Points**

*For use on DSL Systems that require balanced capacitance of ≤ 1 pF.
 **T and ST options are not available on 2410-7x short module.

Product Dimensions

C-2410-3 MODULE



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$