

Features

- Patent #6,327,129
- Board Mount
- 230 V, 250 V, 330 V surge protector
- UL recognized
- Economical, reliable choice for all paired copper communications circuits
- Solid-state responsiveness combined with robust GDT

Applications

- Telecommunications
- High speed data networks
- Hybrid fiber-coax networks
- Broadband powered networks

MSP® Series - Multi-Stage Protector Sub-Assembly

Bourns® MSP® Series is a new generation of telecommunications protector designed to be the best all-around protection choice on both today and tomorrow's copper pair based communications circuits. It combines the strengths of gas tube and solid-state protectors while eliminating their weaknesses. Bourns® MSP® protector series is the synergistic integration of three advanced protection technologies; sixth generation gas tube, precision matched MOVs, and switch-grade fail-short. Working together, these three technologies meet the challenges of the evolving high-speed network.

Bourns® MSP® Series can be used universally on POTS, ISDN, ADSL, SDSL, HDSL, RADSL, VDSL, 10BaseT, and T1 carrier. Bourns® MSP® Series is the most economical, reliable, and best performing choice for all paired copper communications circuits.

Characteristics

Test Methods per IEEE C62.31, UL 497, CSA C22.2, Telcordia GR 1361and applicable sections of Telcordia GR 974.

Model No.		
2026-23-CxxM1xx	2026-25-CxxM1xx	2026-33-CxxM1xx
184 to 276 V	200 to 300 V	300 to 400 V
184 to 276 V	200 to 300 V	300 to 400 V
450 V	475 V	600 V
500 V	525 V	650 V
	184 to 276 V 184 to 276 V 450 V	2026-23-CxxM1xx 2026-25-CxxM1xx 184 to 276 V 200 to 300 V 184 to 276 V 200 to 300 V 450 V 475 V

Insulation Resistance	. 100 Vdc	> 1 GΩ
	. 10 MHz	
	. 1 MHz	
Capacitance Line to Ground	.1 MHz	20 pF typical
	. 52 V, 260 mA	
1 (3 3)	135 V, 200 mA	
Impulse Life Characteristics	. 100 A, 10/1000 μs	> 3000 operations ²
·	300 A, 10/1000 μs	
	500 A, 10/1000 µs	> 1000 operations ³
	2000 A, 10/250 μs	
	5000 A, 20/100 μs	> 10 operations ²
	20000 A, 8/20 μs	
AC Life Characteristics	. 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	> 20 operations
	65 A rms, 11 cycles	> 1 operation³
	120 A rms, 0.1 second	
Life Test Criteria	. Insulation Resistance Throughout the Life Test	100 MΩ
	Life Test Failures	0.0 %
	Failures During Environmental Cycling w/Surges	. 0.0 %
Operating Temperature		55 to +85 °C

Notes:

• UL, cUL Listed.

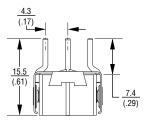
- Surpasses Telcordia GR 974 (network applied).
- ² Exceeds Telcordia GR 1361.
- 3 RUS (REA) PE-80.
- Total current equally divided between each line to ground.

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How To Order / Product Dimensions

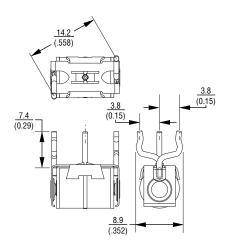
2026-xx-C2M1xx





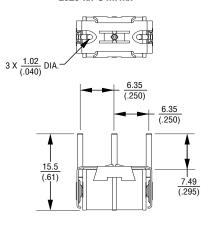
2026-23-C2M136 2026-25-C2M136 2026-33-C2M143

2026-xx-C16M1xx



2026-23-C16M136 2026-25-C16M136 2026-33-C16M143

2026-xx-C4M1xx



2026-23-C4M136 2026-25-C4M136 2026-33-C4M143

 $DIMENSIONS = \frac{MILLIMETERS}{(INCHES)}$

Contact factory for custom configurations.