

SMTelecom® Fuse 436 Series



- Surface mount overcurrent protection from lightning and power cross.
- Meets UL 1459/1950 power cross requirements stand alone.
- Ideal for use in telecommunication equipment including modems, fax machines, desk top phones, answering machines and line cards.
- UL recognized, with a 250 V operating voltage.
- Top side marking allows visual verification of ampere rating.
- Complies with Bellcore GR-1089-CORE and FCC 47 part 68 Surge Specifications.

ELECTRICAL CHARACTERISTICS:

| % of Ampere Rating | Opening Time |
|--------------------|--|
| 100% | 4 Hours, Minimum |
| 200% | 5 Seconds, Min. ; 30 Seconds, Max. |

Short Circuit Capabilities:

UL 1459 / UL 1950 3rd. Edt.

40 Amperes @ 600 VAC

7 amperes @ 600 VAC

2.2 amperes @ 600 VAC

AGENCY APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA .

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

INTERRUPTING RATINGS:

10,000 amperes @ 125V

100 amperes @ 250V

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature Range: -55°C to +125°C

PHYSICAL SPECIFICATIONS:

Materials: Body: Melamine Substrate

Terminations: Copper/Nickel/Tin-Lead (95/5)

Soldering Parameters:

Reflow Solder — 250°C, 10 sec. maximum.

Wave Solder — Not recommended.

PACKAGING SPECIFICATIONS: 24mm Tape and Reel per EIA-RS481-2 (IEC 286, part 3); 2,000 per reel, add packaging suffix, PR.

PATENTED

ORDERING INFORMATION:

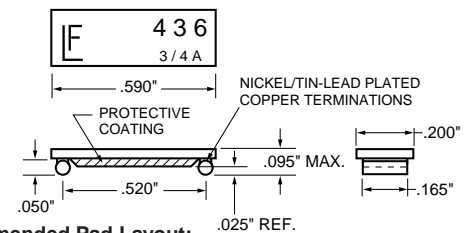
| Catalog Number | Ampere Rating (A) | Voltage Rating (V) | Nominal Cold Resistance (Ω) | Nominal Melting I ² t (A ² sec.) |
|----------------|-------------------|--------------------|-----------------------------|--|
| 0436.750 | 3/4 | 250 | 0.850 | 1.143 |
| 0436001. | 1 | 250 | 0.475 | 2.606 |
| 04361.25 | 1 1/4 | 250 | 0.305 | 3.658 |
| 043601.5 | 1 1/2 | 250 | 0.210 | 5.921 |
| 043601.6 | 1 9/10 | 250 | 0.165 | 13.500 |

PERFORMANCE CHARACTERISTICS:

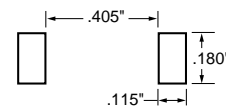
| Catalog Number | FCC 47 Part 68 | | | | Bellcore GR-1089-CORE First Level Lightning | |
|----------------|---|-------|------------------------------------|-------|---|--------------------|
| | Longitudinal Surge 10x160µSec. (1500 V) | | Metallic Surge 10x560µSec. (800 V) | | 10x1000µSec. (1000 V) | 2x10µSec. (2500 V) |
| Repetitions | 50 | 2 | 50 | 2 | 50 | 20 |
| 0436.750 | 82 A | 88 A | 29 A | 32 A | 22 A | 225A |
| 0436001. | 102 A | 117 A | 44 A | 48 A | 37 A | 350A |
| 04361.25 | 120 A | 135 A | 87 A | 95 A | 56 A | 425A |
| 043601.5 | 175 A | 200 A | 100 A | 115 A | 80 A | 500A |
| 043601.6 | 200 A | 200 A | 134 A | 156 A | 100 A | 500A |



Reference Dimensions



Recommended Pad Layout:



Average Time Current Curves

