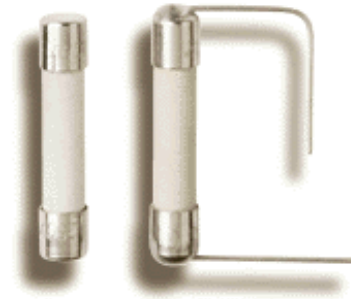


Cooper Bussmann

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ABC-1/4-R

Fast-Acting 1/4 X 1-1/4 inch Fuse, Ceramic Tube RoHS

Product Information

| | |
|-----------------|-----------------|
| Product Type: | Fuse |
| Product Family: | Electronic |
| Brand: | Cooper Bussmann |

Recommended Products

| | |
|-------------------------------|-------------------------------|
| Rec. Fuse Block: | S-8000 Series |
| Rec. Inline Fuse Holder: | HHB Series |
| Rec. Panel-mount Fuse Holder: | HTB Series |
| Rec. Fuse Clips: | 1A1907 Series |

Physical Properties

| | |
|-------------|-----------------------------------|
| Dimensions: | 1.25in.(L) × 0.25in.(W) × 0in.(H) |
|-------------|-----------------------------------|

Certifications

[UL Listed](#)

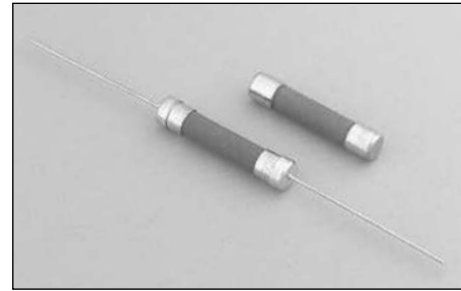
[CSA Certified](#)

Electrical Properties

| | |
|---------------------------|---|
| Maximum AC Voltage: | 250 |
| Maximum DC Voltage: | 125 |
| Amperage Rating: | 0.25 |
| AC Interrupting Ratings: | <ul style="list-style-type: none"> • 35 at 250V • 10000 at 125V |
| DC Interrupting Ratings: | <ul style="list-style-type: none"> • 10000 at 125V |
| Melting I ² T: | 0.02 |
| Fast Acting: | Yes |
| Resistance: | 3 |
| Voltage Drop: | 3.25 |

Description

- Fast-acting, ceramic tube
- Optional axial leads available
- 1/4 x 1-1/4 (6.3mm x 32mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14



| ELECTRICAL CHARACTERISTICS | |
|----------------------------|---------------------|
| % of Amp Rating | Opening Time |
| 100% | 4 Hours Minimum |
| 135% | 60 Minutes maximum |
| 200% | 120 Seconds Maximum |

Agency Information

- UL Listed Guide & File numbers (ABC 1/4 - 15A): JDYX & E19180.
- UL Recognition Guide & File numbers (ABC 18 - 30A): JDYX2 & E19180.
- CSA Certification Record No: 053787 C 000 & Class No: 1422 01 & 1422 30.

Environmental Data

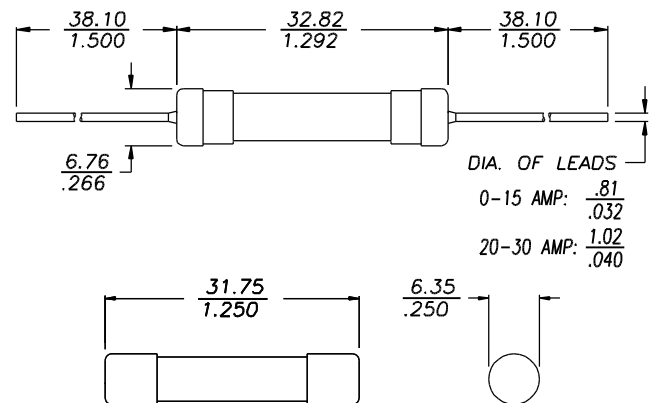
- Shock: 1/4A and 1/2A – MIL-STD-202, Method 213, Test Condition I; 1A thru 30A – MIL-STD-202, Method 207, (HI Shock)
- Vibration: 1/4A thru 30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500HZ)

Ordering

- Specify packaging, product, and option code

Dimensions (mm/in)

Drawing Not to Scale



SPECIFICATIONS

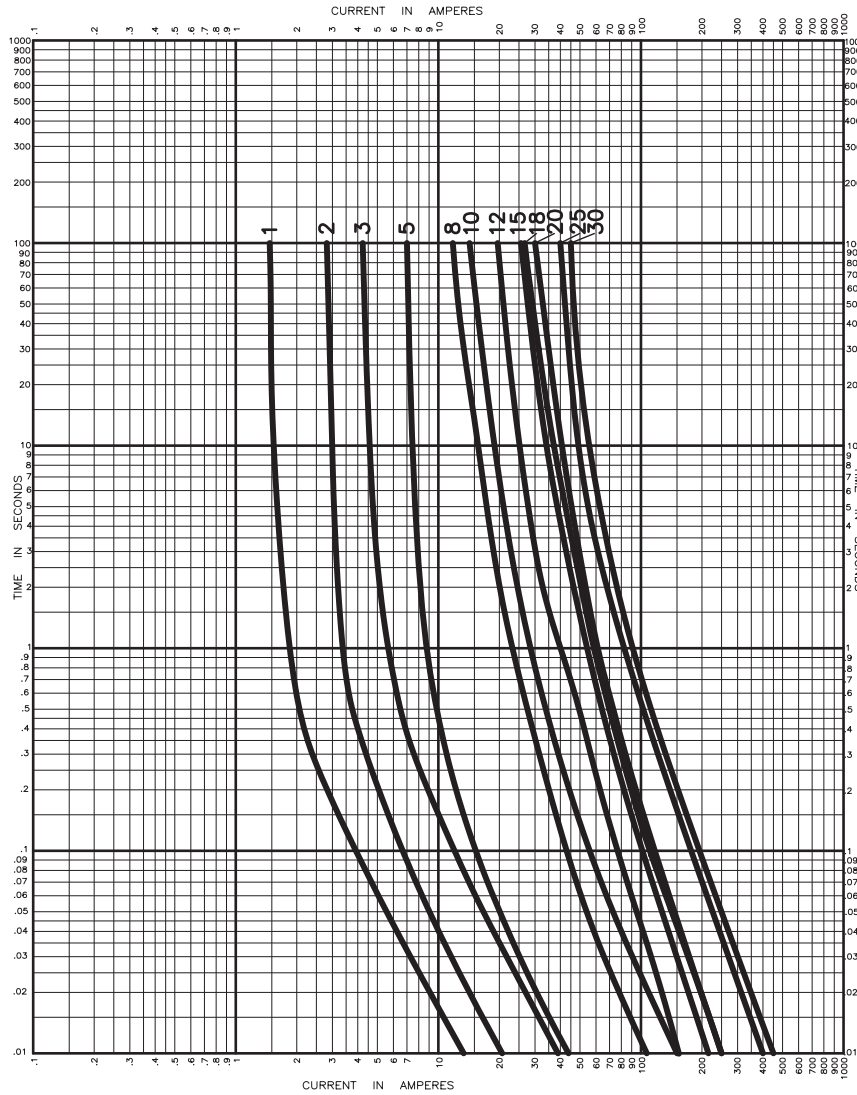
| Product Code | Voltage Rating | | AC Interrupting Rating | | DC Interrupting Rating | | Typical DC Cold Resistance** (ohms) | Typical Melting I ² t† (AC) | Typical Voltage Drop‡ |
|--------------|----------------|------|------------------------|--------|------------------------|-------|-------------------------------------|--|-----------------------|
| | AC | DC | 250V | 125V | 125V | 75V | | | |
| ABC-1/4 | 250V | 125V | 35A | 10000A | 10000A | - | 3.000 | 0.02 | 3.25 |
| ABC-1/2 | 250V | 125V | 35A | 10000A | 10000A | - | 0.788 | 0.19 | 0.51 |
| ABC-3/4 | 250V | 125V | 35A | 10000A | 10000A | - | 0.303 | 0.8 | 0.42 |
| ABC-1 | 250V | 125V | 35A | 10000A | 10000A | - | 0.197 | 1.4 | 0.35 |
| ABC-1-1/2 | 250V | 125V | 100A | 10000A | 10000A | - | 0.1175 | 2.9 | 0.35 |
| ABC-2 | 250V | 125V | 100A | 10000A | 10000A | - | 0.0755 | 4.2 | 0.25 |
| ABC-2-1/2 | 250V | 125V | 100A | 10000A | 10000A | - | 0.05875 | 8.53 | 0.26 |
| ABC-3 | 250V | 125V | 100A | 10000A | 10000A | - | 0.0435 | 19.5 | 0.25 |
| ABC-4 | 250V | 125V | 200A | 10000A | 10000A | - | 0.02975 | 29.1 | 0.25 |
| ABC-5 | 250V | 125V | 200A | 10000A | 10000A | - | 0.0286 | 16.4 | 0.23 |
| ABC-6 | 250V | 125V | 200A | 10000A | 10000A | - | 0.02315 | 31.6 | 0.24 |
| ABC-7 | 250V | 125V | 200A | 10000A | 10000A | - | 0.0183 | 73.2 | 0.20 |
| ABC-8 | 250V | 125V | 200A | 10000A | 10000A | - | 0.0146 | 111.9 | 0.17 |
| ABC-10 | 250V | 125V | 200A | 10000A | 10000A | - | 0.01205 | 215.6 | 0.15 |
| ABC-12 | 250V | 125V | 750A | 10000A | 10000A | - | 0.0068 | 129.6 | 0.11 |
| ABC-15 | 250V | 125V | 750A | 10000A | 10000A | - | 0.005425 | 200.2 | 0.12 |
| ABC-20 | 250V | 125V | 400A | 1000A | 10000A | - | 0.00366 | 550.8 | 0.13 |
| ABC-25 | 125V | 125V | - | 1000A | 400A | 1000A | 0.00263 | 839.3 | 0.12 |
| ABC-30 | 125V | 125V | - | 1000A | 400A | 1000A | 0.002225 | 1,429 | 0.14 |

** DC Cold Resistance (Measured at ≤10% of rated current)

† Typical Melting I²t (A²Sec) (I²t was measured at listed interrupting rating and rated voltage. Measured at 70% to 80% power factor on AC)

‡ Typical Voltage Drop (Voltage drop was measured at 25°C±3°C ambient temperature at rated current)

TIME CURRENT CURVE



| PACKAGING CODE | |
|-----------------------|--|
| Packaging Code | Description |
| BK | 100 pieces of fuses packed into a cardboard carton |
| BK1 | 1,000 pieces of fuses packed into a cardboard carton |
| BK8 | 8,000 pieces of fuses packed into a cardboard carton |

| OPTION CODE | |
|--------------------|--|
| Option Code | Description |
| B | Board Washable - Hermetically sealed to withstand aqueous cleaning |
| V | Axial leads - copper tinned wire with nickel plated brass overcaps |
| -R | RoHS compliant version |