

MIDI[®], Clear MIDI[®], One-Hole MIDI[®] Style

Bolt-down Fuse Rated 32V



Clear MIDI[®] Fuses
(clear nylon composite cover)

Description

Space-saving MIDI[®] fuses protect high-current wiring harnesses. The bolt-down automotive fuses employ diffusion pill technology to offer time-delay characteristics. Use MIDI fuses with ratings of 150 A to 200 A only for short circuit protection.

Specifications

| | |
|---|---|
| Voltage Rating: | 32 VDC |
| Interrupting Rating: | 2000A @ 32 VDC |
| Recommended Environmental Temperature: | -40°C to +125°C |
| Terminals Material: | Tin plated Copper |
| Black Housing Material: | PA66-GF25 (U.L. 94 Flammability rating – V0) |
| Clear Housing Material: | PA6/66 (U.L. 94 Flammability rating – HB) |
| Mounting Torque M5: | 4.5 Nm +/- 1Nm |
| Mounting Torque M6: | 6.0 Nm +/- 1Nm |
| Refers To: | ISO 8820-5:2015 |
| Complies with: | Standard UL 248-1 as a Special Purpose Fuses in UL file E71611 (40-100A) and Directive 2011/65/EU |

Applications

- Cars
- Trucks
- SUVs
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse[®]

Features & Benefits

- Color-coded ampere labels aid identification
- Clear tops make it easy to see when fuse blows
- Available with one or two mounting holes
- Compact design and light weight enable greater circuit protection in less space

Ordering Information

| Part Number | Current Rating (A) | Housing Color | Bolt Size | Bolt Qty. | Package Size |
|---------------|--------------------|---------------|-----------|-----------|--------------|
| 0498xxx.M | 30–200 | Black | M5 | 2 | 1000 |
| 0498xxx.H | 30–200 | Black | M5 | 2 | 100 |
| 0498xxx.MXM6 | 30–200 | Black | M6 | 2 | 1000 |
| 0498xxx.MX1M5 | 30–200 | Black | M5 | 1 | 1000 |
| 0498xxx.MX1M6 | 30–200 | Black | M6 | 1 | 1000 |
| 0498xxx.MXT | 30–200 | Clear | M5 | 2 | 1000 |
| 0498xxx.MXTM6 | 30–200 | Clear | M6 | 2 | 1000 |

Note: Materials manufactured in Asia are produced with the same specifications as materials manufactured in North America and meets the same test requirements. Multiple production locations are for capacity expansion only.

MIDI[®], Clear MIDI[®], One-Hole MIDI[®] Style

Bolt-down Fuse Rated 32V

Ratings

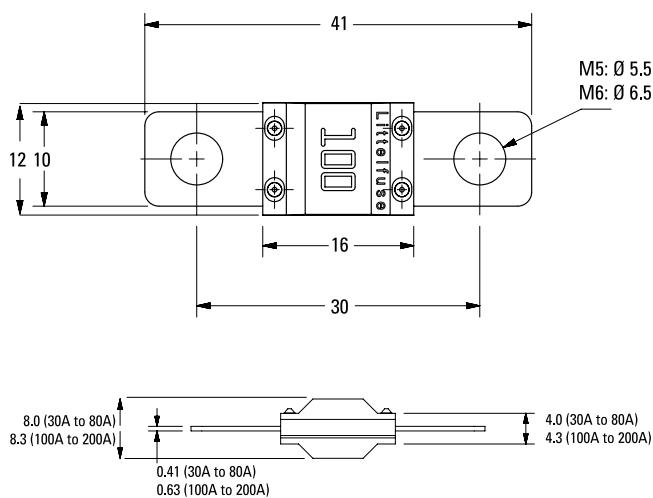
| Part Number | Current Rating (A) | Color Code | Test Cable size (mm ²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I ² t (A ² s) |
|----------------------------|--------------------|------------|------------------------------------|------------------------|---------------------------|--|
| 0498030._ ² | 30 | | 2.5 | 65 | 2.06 | 4,200 |
| 0498040._ | 40 | | 4 | 65 | 1.40 | 10,000 |
| 0498050._ | 50 | | 6 | 65 | 1.02 | 13,000 |
| 0498060._ | 60 | | 6 | 68 | 0.87 | 21,700 |
| 0498070._ | 70 | | 10 | 70 | 0.72 | 24,000 |
| 0498080._ | 80 | | 10 | 58 | 0.54 | 24,600 |
| 0498100._ | 100 | | 16 | 60 | 0.46 | 51,300 |
| 0498125._ ² | 125 | | 25 | 71 | 0.39 | 73,200 |
| 0498150._ ^{1,2} | 150 | | 25 | 49 ⁴ | 0.32 | 81,900 |
| 0498175._ ^{1,2,3} | 175 | | 25 | 53 ⁴ | 0.29 | 100,000 |
| 0498200._ ^{1,2} | 200 | | 25 | 51 ⁴ | 0.26 | 125,000 |

Note 1: Short Circuit Protector only, Note 2: Not UL Recognized, Note 3: Color Coding deviating from ISO standard, Note 4: Measured at 75% I_r
 The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

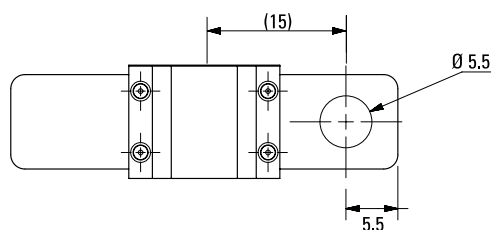
Dimensions

Dimensions in mm for reference only.
 See outline drawing for dimensions and tolerances.

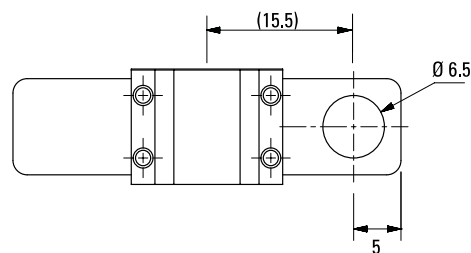
MIDI 2 Holes M5/M6 versions



MIDI 1 Hole M5 versions



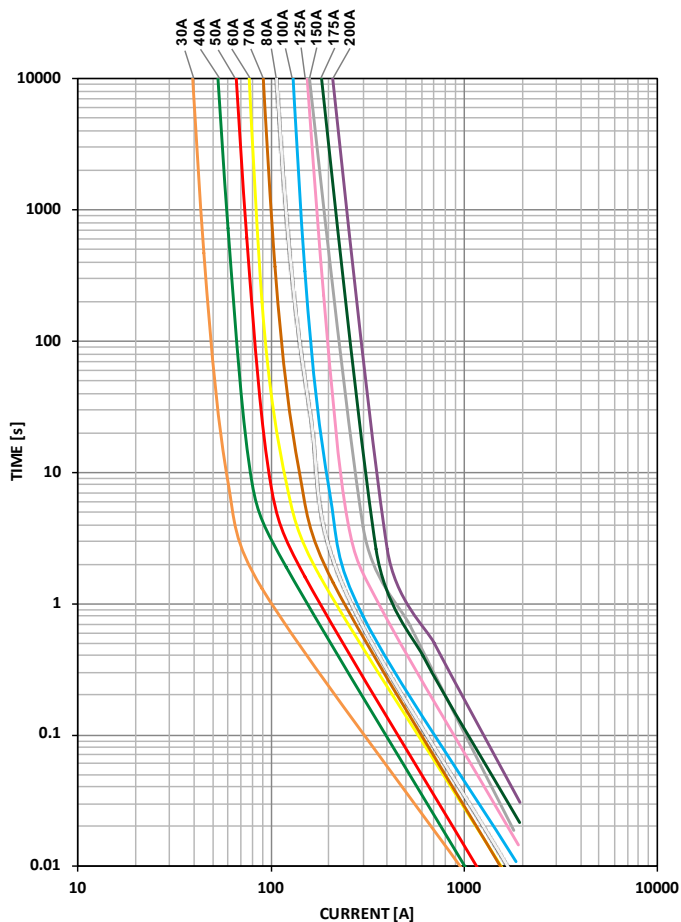
MIDI 1 Hole M6 versions



MIDI[®], Clear MIDI[®], One-Hole MIDI[®] Style

Bolt-down Fuse Rated 32V

Time-Current Characteristic Curves



Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) | |
|-------------|----------------------------|-------------|
| | 30A-125A | 150A-200A |
| 75 | - / - | 360,000 / ∞ |
| 100 | 360,000 / ∞ | - / - |
| 110 | 14,400 / ∞ | - / - |
| 150 | 90 / 3,600 | - / - |
| 200 | 3 / 100 | 1 / 15 |
| 300 | 0.3 / 3 | - / - |
| 350 | - / - | 0.3 / 5 |
| 500 | 0.1 / 1 | - / - |
| 600 | - / - | 0.1 / 1 |

MIDI[®], Clear MIDI[®], One-Hole MIDI[®] Style Bolt-down Fuse Rated 32V

Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

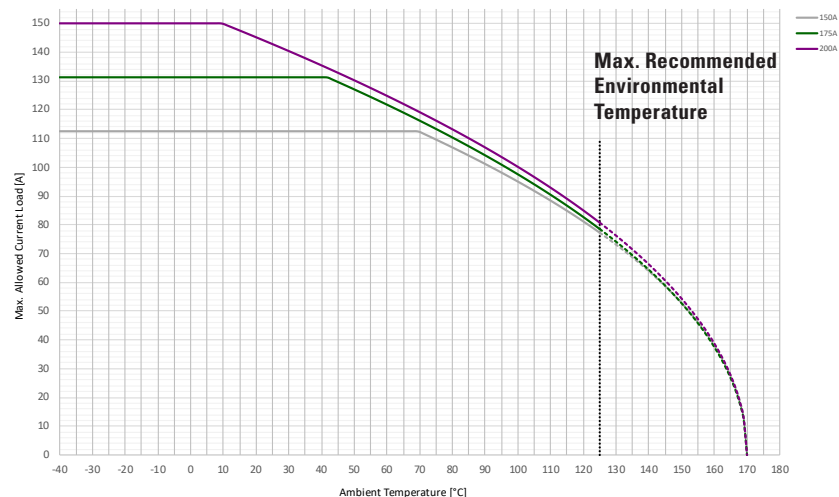
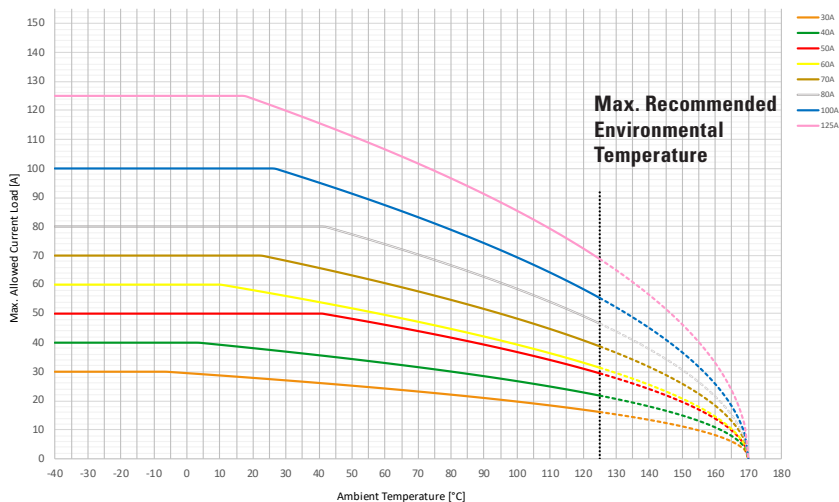
Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-3

Please Contact Littelfuse[®] For Details Regarding Derating Test Set Up

Temperature Table

| | max. allowed current load [A] at ambient temperature (typical derating) | | | | | | |
|-------------|---|-----|------|------|------|-------|-------|
| | -20°C | 0°C | 20°C | 65°C | 85°C | 110°C | 125°C |
| 30A | 30 | 30 | 28 | 24 | 22 | 18 | 16 |
| 40A | 40 | 40 | 38 | 32 | 29 | 25 | 22 |
| 50A | 50 | 50 | 50 | 45 | 41 | 34 | 29 |
| 60A | 60 | 60 | 58 | 48 | 43 | 36 | 31 |
| 70A | 70 | 70 | 70 | 59 | 53 | 45 | 39 |
| 80A | 80 | 80 | 80 | 72 | 65 | 54 | 47 |
| 100A | 100 | 100 | 100 | 85 | 77 | 64 | 55 |
| 125A | 125 | 125 | 124 | 104 | 94 | 79 | 69 |
| 150A | 113 | 113 | 113 | 113 | 104 | 88 | 77 |
| 175A | 131 | 131 | 131 | 119 | 107 | 90 | 79 |
| 200A | 150 | 150 | 145 | 122 | 110 | 93 | 81 |

Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc.). Please ask Littelfuse for more information.



Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc.). Please ask Littelfuse[®] for more information.