

# MIDI<sup>®</sup>, Clear MIDI<sup>®</sup>, One-Hole MIDI<sup>®</sup> Style Bolt-down Fuse Rated 32V



Clear MIDI<sup>®</sup> Fuses  
(clear nylon composite cover)

## Description

Space-saving MIDI<sup>®</sup> 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

<b>Voltage Rating:</b>	32 VDC
<b>Interrupting Rating:</b>	2000A @ 32 VDC
<b>Recommended Environmental Temperature:</b>	-40°C to +125°C
<b>Terminals Material:</b>	Tin plated Copper
<b>Black Housing Material:</b>	PA66-GF25 (U.L. 94 Flammability rating – V0)
<b>Clear Housing Material:</b>	PA6/66 (U.L. 94 Flammability rating – HB)
<b>Mounting Torque M5:</b>	4.5 Nm +/- 1Nm
<b>Mounting Torque M6:</b>	6.0 Nm +/- 1Nm
<b>Refers To:</b>	ISO 8820-5:2015
<b>Complies with:</b>	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<sup>®</sup>

## 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	Rating	Package Size	Housing Color	Bolt Size	Bolt Hole Qty	Mfg Location
0498xxx.M	30 - 200	1000	Black	M5	2	Mexico
0498xxx.M-CN	30 - 200	1000	Black	M5	2	China
0498xxx.H	30 - 200	100	Black	M5	2	Mexico
0498xxx.MXM6	30 - 200	1000	Black	M6	2	Mexico
0498xxx.MXM6-CN	30 - 200	1000	Black	M6	2	China
0498xxx.MX1M5	30 - 200	1000	Black	M5	1	Mexico
0498xxx.MX1M5-CN	30 - 200	1000	Black	M5	1	China
0498xxx.MX1M6	30 - 200	1000	Black	M6	1	Mexico
0498xxx.MX1M6-CN	30 - 200	1000	Black	M6	1	China
0498xxx.MXT	30 - 200	1000	Clear	M5	2	Mexico
0498xxx.MXT-CN	30 - 200	1000	Clear	M5	2	China
0498xxx.MXTM6	30 - 200	1000	Clear	M6	2	Mexico
0498xxx.MXTM6-CN	30 - 200	1000	Clear	M6	2	China

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.

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## Bolt-down Fuse Rated 32V

### Ratings

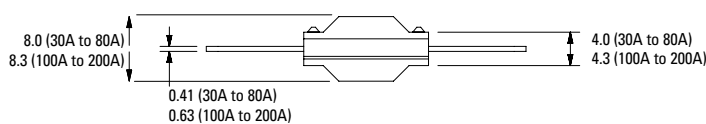
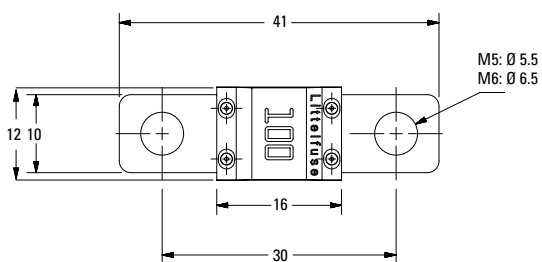
Part Number	Current Rating (A)	Color Code	Test Cable size (mm <sup>2</sup> )	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I <sup>2</sup> t (A <sup>2</sup> s)
0498030._ <sup>2</sup>	30		2.5	65	2.06	4,200
0498040._	40		4	65	1.40	10,000
0498050._	50		6	65	1.02	13,000
0498060._	60		6	68	0.87	21,700
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._ <sup>2</sup>	125		25	71	0.39	73,200
0498150._ <sup>1,2</sup>	150		25	49 <sup>4</sup>	0.32	81,900
0498175._ <sup>1,2,3</sup>	175		25	53 <sup>4</sup>	0.29	100,000
0498200._ <sup>1,2</sup>	200		25	51 <sup>4</sup>	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<sub>r</sub>  
 The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

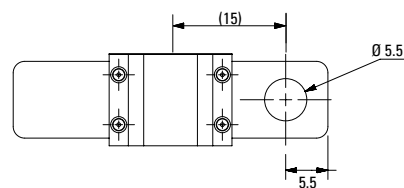
### Dimensions

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

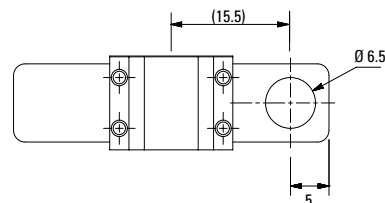
#### MIDI 2 Holes M5/M6 versions



#### MIDI 1 Hole M5 versions



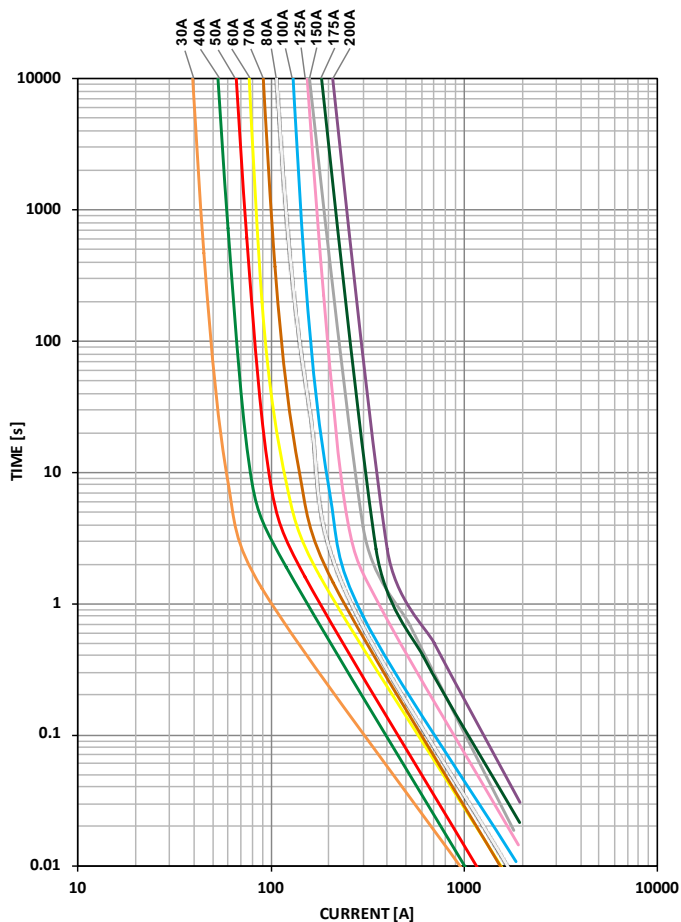
#### MIDI 1 Hole M6 versions



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## 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

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## Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

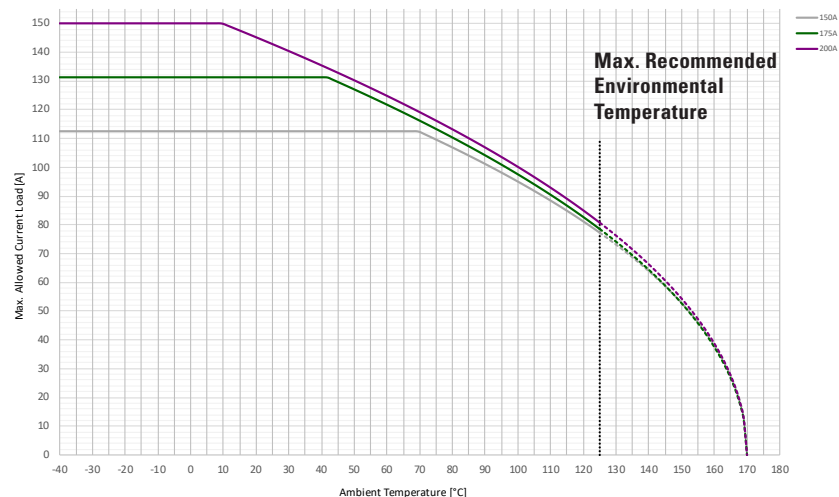
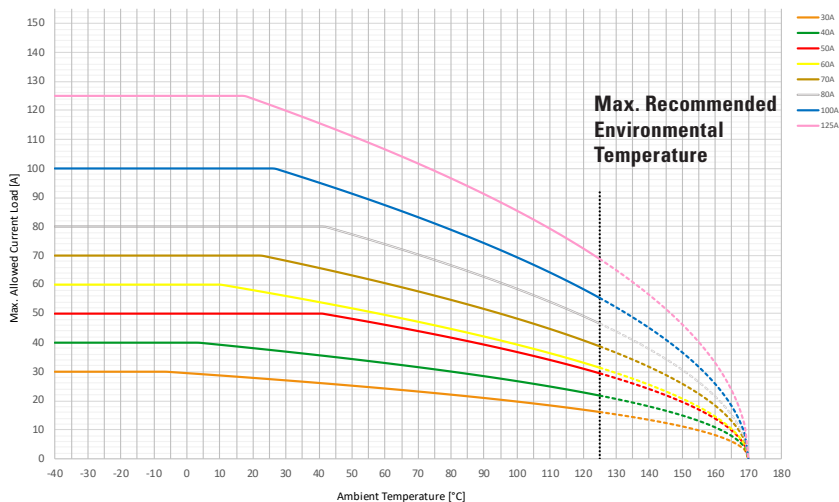
Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-3

Please Contact Littelfuse<sup>®</sup> 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
<b>30A</b>	30	30	28	24	22	18	16
<b>40A</b>	40	40	38	32	29	25	22
<b>50A</b>	50	50	50	45	41	34	29
<b>60A</b>	60	60	58	48	43	36	31
<b>70A</b>	70	70	70	59	53	45	39
<b>80A</b>	80	80	80	72	65	54	47
<b>100A</b>	100	100	100	85	77	64	55
<b>125A</b>	125	125	124	104	94	79	69
<b>150A</b>	113	113	113	113	104	88	77
<b>175A</b>	131	131	131	119	107	90	79
<b>200A</b>	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.



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