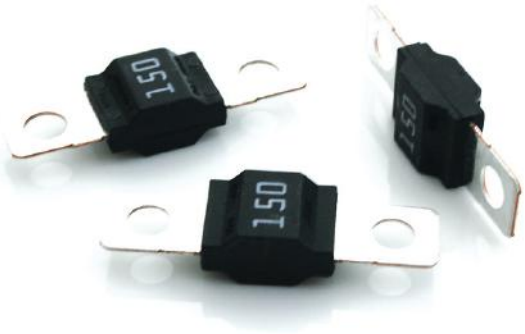
High Current Fuses

Littelfuse®
Expertise Applied | Answers Delivered



MIDI® Fuses

Clear MIDI® Fuses
(clear nylon composite cover)

One Hole MIDI® Fuses

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

This MIDI® style fuse offers a bolt-on space saving fuse for high current wiring protection and provides time delay characteristics with "Diffusion Pill Technology".

Specifications

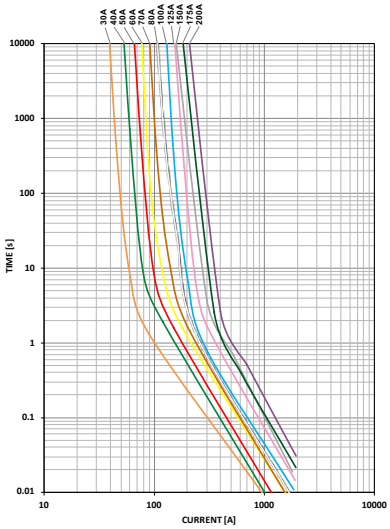
Voltage Rating:	32 VDC
Interrupting Rating:	2000A @ 32 VDC
Recommended Environmental Temperature:	-40˚C to + 125˚C
Terminals Material:	Tin plated Copper
Black Housing Material:	PA66-GF25 (U.L. 94 Flammability rating – V0)
Clear Housing Material:	PA6/66 (U.L. 94 Flammability rating – HB)
Mounting Torque 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

RoHS

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

Time-Current Characteristic Curves



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 expanison only.

Ratings

Part Number	Current Rating (A)	Color Code	Test Cable size (mm2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I^2t (A^2s)
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	77 [4]	0.32	81,900
0498175._[1,2,3]	175		25	77 [4]	0.26	100,000
0498200._[1,2]	200		25	77 [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% Ir

The typical I^2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

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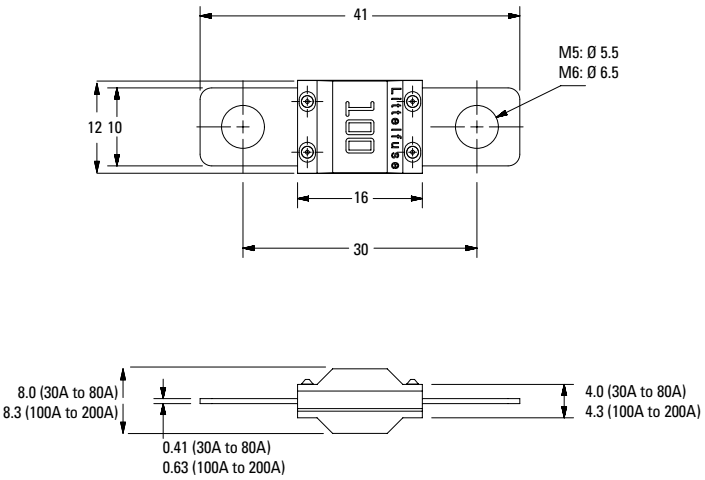
MIDI®, Clear MIDI®, and One Hole MIDI® Style Bolt-down Fuse Rated 32V

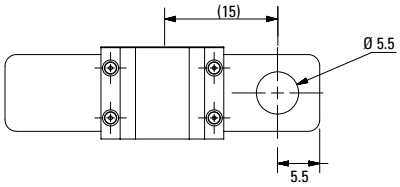
Dimensions

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

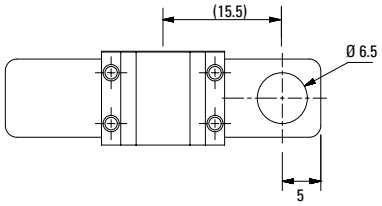
MIDI 2 Holes M5/M6 versions



MIDI 1 Hole M5 versions

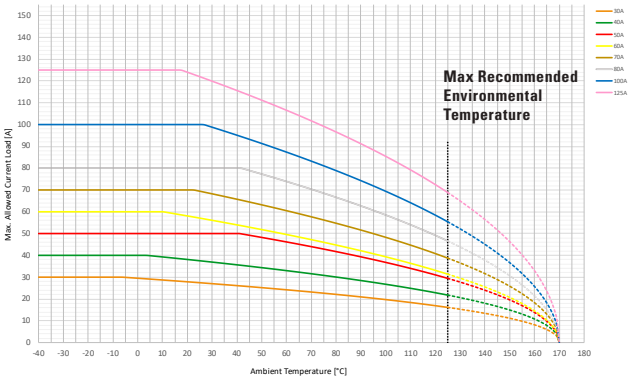


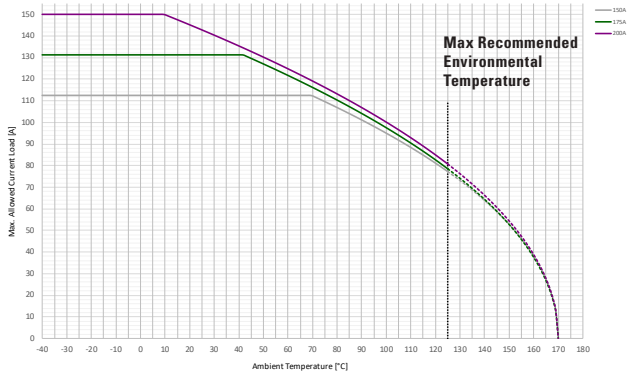
MIDI 1 Hole M6 versions



Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%
Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-5
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.