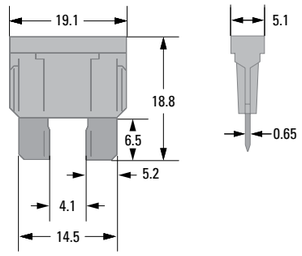
Littelfuse®
Expertise Applied | Answers Delivered

BLADE Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size (Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr><td>ATO
 </td><td rowspan="2">  </td><td>0287***
.PXS</td><td>32 V</td><td>1000 A</td><td>1A 15A
2A 20A
3A 25A
4A 30A
5A 35A
7.5A 40A
10A</td><td rowspan="2">FAST ACTING
<table><tr><th>% of Rating</th><th>Current Rating (A)</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>100</td><td>35–40</td><td>360 000 / –</td></tr><tr><td>110</td><td>1–30</td><td>360 000 / –</td></tr><tr><td>135</td><td>1–2
3–40</td><td>0.35 / 600
0.750 / 600</td></tr><tr><td>160</td><td>1–40</td><td>0.250 / 50</td></tr><tr><td>200</td><td>1–2
3–40</td><td>0.1 / 5
0.15 / 5</td></tr><tr><td>350</td><td>1–2
3–40</td><td>0.02 / 0.5
0.08 / 0.5</td></tr><tr><td>600</td><td>1–30
35–40</td><td>0.1 max
0.15 max</td></tr></table></td><td>-40 °C to + 125 °C

Note: Ag plating allows up to 150 °C at the terminal interface.</td><td>Zn</td><td>Ag / Ni</td><td>PA66
(UL94 V2)</td><td>-</td><td>Female Terminal
6.3 mm (250)</td><td>SAE J1284
ISO 8820-3
(Type C)
RoHS
UL (AU1410)
CSA 29862</td></tr>
<tr><td>ATOF
 </td><td>0287***
.PXCN</td><td>32 V</td><td>1000 A</td><td>1A 15A
2A 20A
3A 25A
4A 30A
5A 35A
7.5A 40A
10A SHUNT</td><td>-40 °C to + 125 °C</td><td>Zn</td><td>Sn</td><td>PA66
(UL94 V2)</td><td>-</td><td>Female Terminal
6.3 mm (250)</td><td>SAE J1284
ISO 8820-3
(Type C)
RoHS
UL (AU1410)
CSA 29862</td></tr>
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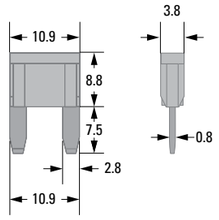
 </td><td rowspan="2">  </td><td>0297***
.WXNV

0297***
.U

0297***
.H

0297***
.L

0297***
.WXT</td><td>32 V</td><td>1000 A</td><td rowspan="2">2A 15A
3A 20A
4A 25A
5A 30A
7.5A SHUNT
10A</td><td rowspan="2">FAST ACTING
<table><tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>110</td><td>360 000 / –</td></tr><tr><td>135</td><td>0.75 / 600</td></tr><tr><td>200</td><td>0.15 / 5</td></tr><tr><td>350</td><td>0.08 / 0.5</td></tr><tr><td>600</td><td>0.03 / 0.1</td></tr></table></td><td>-40 °C to + 125 °C</td><td rowspan="2">Zn</td><td>Sn</td><td rowspan="2">PA66
(UL94 V2)</td><td rowspan="2">-</td><td rowspan="2">Female Terminal
2.8 mm (110)</td><td>SAE J2077
ISO 8820-3
(Type F)
RoHS</td></tr>
<tr><td>MINI 58 V
 </td><td>0997***
.WXN</td><td>58 V</td><td>1000 A</td><td>-40 °C to + 125 °C

Note: Ag plating allows up to 150 °C at the terminal interface.</td><td>Ag</td><td>SAE J2077
ISO 8820-3
(Type F)
UL-248
RoHS</td></tr>
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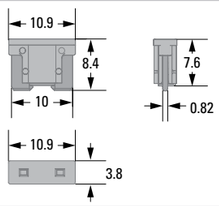
 </td><td rowspan="2">  </td><td>0891***
.NXS

0891***
.U

0891***
.H</td><td rowspan="2">58 V</td><td rowspan="2">1000 A</td><td>2A 15A
5A 20A
7.5A 25A
10A 30A</td><td rowspan="2">FAST ACTING
<table><tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>110</td><td>360 000 / –</td></tr><tr><td>135</td><td>0.75 / 120</td></tr><tr><td>200</td><td>0.15 / 5</td></tr><tr><td>350</td><td>0.08 / 0.25</td></tr><tr><td>600</td><td>0.03 / 0.1</td></tr></table></td><td rowspan="2">-40 °C to + 125 °C

Note: Ag plating allows up to 150 °C at the terminal interface.</td><td rowspan="2">Zn</td><td rowspan="2">Ag</td><td rowspan="2">PA66
(UL94 HB)</td><td rowspan="2">-</td><td rowspan="2">Female Terminal
2.8 mm (110)</td><td rowspan="2">ISO 8820-9
(Type K)</td></tr>
<tr><td>LP MINI 10.9
 </td><td>0891***
.NXWS</td><td>5A 20A
7.5A 25A
10A 30A
15A</td></tr>
</table>

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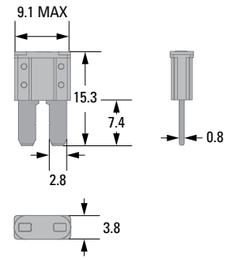
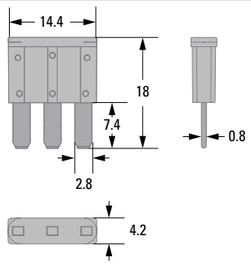
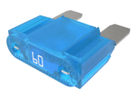
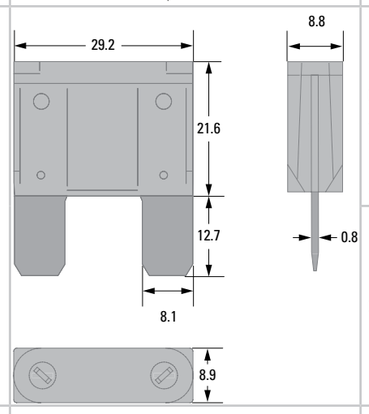
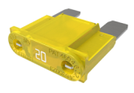
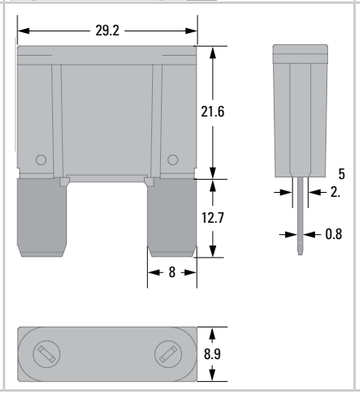
BLADE Fuse Selection Chart

Fuse Type	Actual Fuse Size (Dimensions in mm)	Part No.	Electrical Characteristics				Recommended Environmental Temperature	Materials				Mating Terminal Size	Standard & Certifications
			Voltage	Interrupting Current	Fuse Ratings	Operating Times		Metal	Plating	Housing	Cover		
MICRO 2		0327*** .YXT2 0327***	32 V	1000 A	3A 20A 5A 25A 7.5A 30A 10A SHUNT 15A	***FAST ACTING*** % of Rating / Opening Time Min. / Max. (s) 110: 360 000 / – 135: 0.75 / 120 160: 0.3 / 50 200: 0.15 / 5 350: 0.04 / 0.5 600: 0.02 / 0.1	-40 °C to + 125 °C **Note:** Ag plating allows up to 150 °C at the terminal interface.	Zn	Sn Ag	PA66 (UL94 V2)	-	Female Terminal 2.8 mm (110)	SAE2741 ISO 8820-12:2020 (Type N) RoHS
MICRO 3		0337***	32 V	1000 A	3A 10A 5A 15A 7.5A SHUNT	***FAST ACTING*** % of Rating / Opening Time Min. / Max. (s) 110: 360 000 / – 135: 0.75 / 120 160: 0.3 / 50 200: 0.15 / 5 350: 0.04 / 0.5 600: 0.02 / 0.1	-40 °C to + 125 °C **Note:** Ag plating allows up to 150 °C at the terminal interface.	Zn	Ag	PA66 (UL94 V2)	-	Female Terminal 2.8 mm (110)	SAE2741 ISO 8820-13 (Type P) RoHS
MAXI 32 V 		0299*** .ZXT 0299***	32 V	1000 A	20A 50A 25A 60A 30A 70A 35A 80 A 40A	***SLOW BLOW*** % of Rating / Opening Time Min. / Max. (s) 100: 360 000 / – 135: 60 / 1800 200: 2 / 60 350: 0.02 / 7 600: 0.04 / 1	-40 °C to + 125 °C **Note:** Ag plating allows up to 150 °C at the terminal interface.	Zn	Sn Ag	PA66 (UL94 V2)	-	Female Terminal 8 mm (312)	ISO 8820-3 (Type E) SAE J 1888 SAE 2576 RoHS
MAXI 58 V 		0999*** .ZXN	58 V	1000 A			-40 °C to + 125 °C **Note:** Ag plating allows up to 150 °C at the terminal interface.	Zn	Ag	PA66 (UL94 V2)	-	Female Terminal 8 mm (312)	ISO 8820-3 (Type E) SAE J 1888 SAE 2576 RoHS

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BLADE Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size (Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr>
<td>MAXI+
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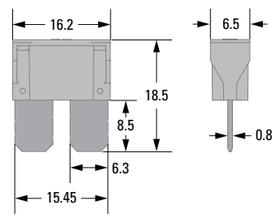
<td> 
</td>
<td>0899****
.Z</td>
<td>32 V</td>
<td>1000 A</td>
<td>20A 40A
25A 50A
30A 60A
35A</td>
<td>SLOW BLOW
<table><tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>100</td><td>360 000 / –</td></tr><tr><td>135</td><td>60 / 900</td></tr><tr><td>160</td><td>10 / 100</td></tr><tr><td>200</td><td>2 / 50</td></tr><tr><td>350</td><td>0.2 / 7</td></tr><tr><td>600</td><td>0.04 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Zn</td>
<td>Ag</td>
<td>PA66
(UL94 V2)</td>
<td>-</td>
<td>Female Terminal
6.3 mm (250)</td>
<td>ISO 8820-10
(Type L)
SAE J 1888
SAE 2576
RoHS</td>
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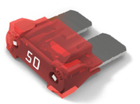
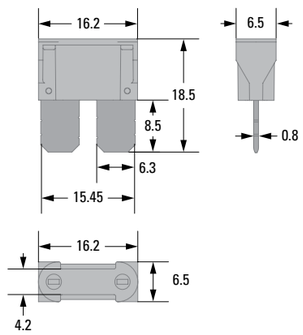
<tr>
<td>MAXI+
RESTYLING
  </td>
<td> 
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<td>0899****
.ZXR</td>
<td>32 V</td>
<td>1000 A</td>
<td>20A 50A
25A 60A
30A
35A
40A</td>
<td><table><tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>100</td><td>360 000 / –</td></tr><tr><td>135</td><td>60 / 900</td></tr><tr><td>160</td><td>10 / 100</td></tr><tr><td>200</td><td>2 / 50</td></tr><tr><td>350</td><td>0.2 / 7</td></tr><tr><td>600</td><td>0.04 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Zn</td>
<td>AG</td>
<td>PA66
(UL94 V2)</td>
<td>-</td>
<td>Female Terminal
6.3 mm (250)</td>
<td>ISO 8820-10:2020</td>
</tr>
</table>

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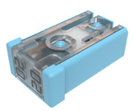
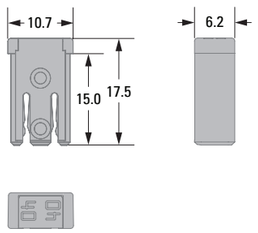
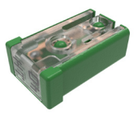
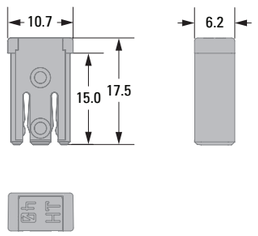
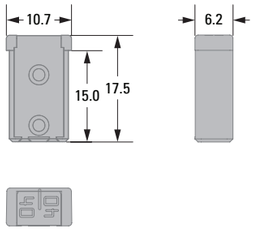
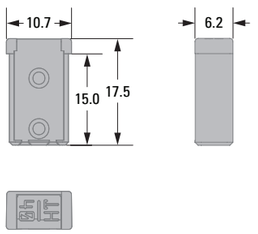
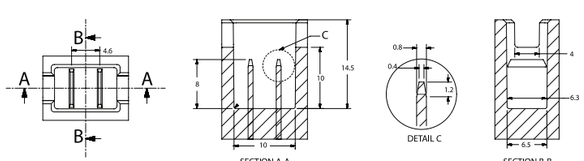
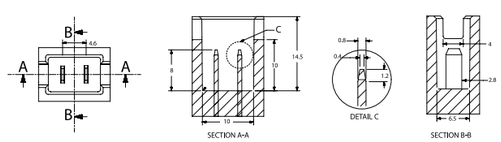
CARTRIDGE Fuse Selection Chart

Fuse Type	Actual Fuse Size (Dimensions in mm)	Part No.	Electrical Characteristics				Recommended Environmental Temperature	Materials				Mating Terminal Size	Standard & Certifications
			Voltage	Interrupting Current	Fuse Ratings	Operating Times		Metal	Plating	Housing	Cover		
MCASE+ SLOTTED 		0695*** .PXPS	32 V	1000 A	15A 20A 25A 30A 40A 50A 60A	% of Rating / Opening Time Min. / Max. (s) 110 / 360 000 / – 135 / 60 / 1800 200 / 4 / 60 350 / 0.2 / 7 600 / 0.04 / 1	-40 °C to + 125 °C	Cu	-	PPA-GF33 (UL94 HB)	PA66 (UL94 V2)	Male Terminal 6.3 mm (250) / Busbar	ISO 8820-4 SAE 2741
MCASE+ SLOTTED HT 		0695*** .PXPS-HT			40A 50A 60A								
MCASE+ UNSLOTTED		0695*** .PXP	32 V	1000 A	15A 20A 25A 30A 40A	% of Rating / Opening Time Min. / Max. (s) 110 / 360 000 / – 135 / 60 / 1800 200 / 2 / 60 350 / 0.2 / 7 600 / 0.04 / 1	-40 °C to + 125 °C	Cu	-	PPA-GF33 (UL94 HB)	PA66 (UL94 V2)	Male Terminal 6.3 mm (250)	ISO 8820-4 SAE 2741
MCASE+ UNSLOTTED HT		0695040 .PXP-HT			40A								

Slotted Recommended Mating Cavity



Unslotted Recommended Mating Cavity



Recommended MCASE Fuse Puller. MATERIAL NUMBER 00970054XPA

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CARTRIDGE Fuse Selection Chart

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<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size (Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr>
<td>JCASE
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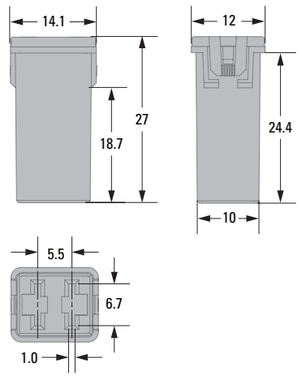
<td> 
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<td>0495***</td>
<td>32 V</td>
<td>1000 A</td>
<td>20A 50A
25A 60A
30A SHUNT
40A</td>
<td><table><tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>110</td><td>360 000 / –</td></tr><tr><td>135</td><td>60 / 1800</td></tr><tr><td>200</td><td>4 / 60</td></tr><tr><td>350</td><td>0.2 / 7</td></tr><tr><td>600</td><td>0.04 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>-</td>
<td>PPA-GF13/ HS (UL94 HB)</td>
<td>PC (UL94 HB)</td>
<td>Male Terminal 6.3 mm (250)</td>
<td>ISO 8820-4 (Type A1) SAE 2741 RoHS</td>
</tr>
<tr>
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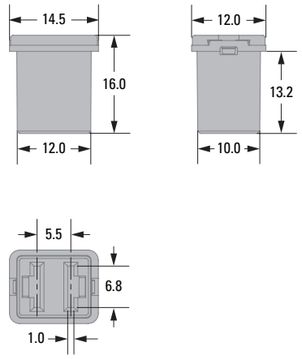
<td> 
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<td>0895***
.Z</td>
<td>58 V</td>
<td>1000 A</td>
<td>20A 40A
25A 50A
30A 60A</td>
<td><table><tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><td>100</td><td>360 000 / –</td></tr><tr><td>135</td><td>60 / 1800</td></tr><tr><td>200</td><td>4 / 60</td></tr><tr><td>350</td><td>0.2 / 7</td></tr><tr><td>600</td><td>0.04 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>-</td>
<td>PPA-GF13 (UL94 HB)</td>
<td>PSU (UL94 HB)</td>
<td>Male Terminal 6.3 mm (250)</td>
<td>ISO 8820-4 (Type A1S) SAE 2741 RoHS</td>
</tr>
</table>

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BOLT DOWN Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size
(Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
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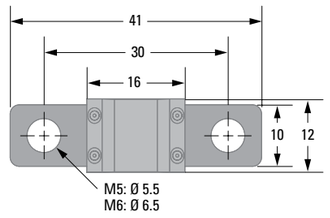
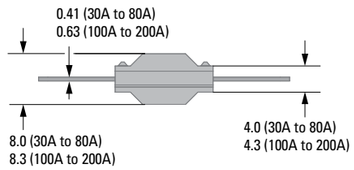
 </td><td rowspan="2"> 

 
</td><td>0498***</td><td rowspan="2">32 V</td><td rowspan="2">2000 A</td><td rowspan="2">30A 100A
40A 125A
50A 150A
60A 175A
70A 200A
80A</td><td rowspan="2"><table><tr><th rowspan="2">% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr><tr><th>30A-125A</th><th>150A-200A</th></tr><tr><td>75</td><td>– / –</td><td>360 000 / –</td></tr><tr><td>100</td><td>360 000 / –</td><td>– / –</td></tr><tr><td>110</td><td>14 400 / –</td><td>– / –</td></tr><tr><td>150</td><td>90 / 3600</td><td>– / –</td></tr><tr><td>200</td><td>3 / 100</td><td>1 / 15</td></tr><tr><td>300</td><td>0.3 / 3</td><td>– / –</td></tr><tr><td>350</td><td>– / –</td><td>0.3 / 5</td></tr><tr><td>500</td><td>0.1 / 1</td><td>– / –</td></tr><tr><td>600</td><td>– / –</td><td>0.1 / 1</td></tr></table></td><td rowspan="2">-40 °C to + 125 °C</td><td rowspan="2">Cu</td><td rowspan="2">Sn</td><td>PA-GF25FR
(UL94 V0)</td><td>-</td><td>M5 / M6</td><td>ISO 8820-5
(Type SF 30)
UL-248
RoHS</td></tr>
<tr><td>MIDI REGULAR 32V CLEAR
 </td><td>0498***</td><td>Housing
PA-GF25FR
(UL94 V0)</td><td>PA6/66
(UL94 HB)</td><td>M5 / M6</td><td>ISO 8820-5
(Type SF 30)</td></tr>
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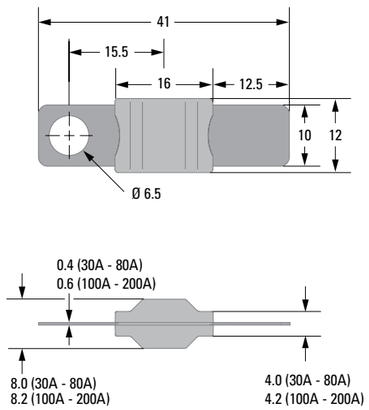
 </td><td> 
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.MX1M6-IH</td><td>32 V</td><td>2000 A</td><td></td><td></td><td>-40 °C to + 125 °C</td><td>Cu</td><td>Sn</td><td>PA66 GF25
(UL94 V0)</td><td>-</td><td>M6</td><td>ISO 8820-5</td></tr>
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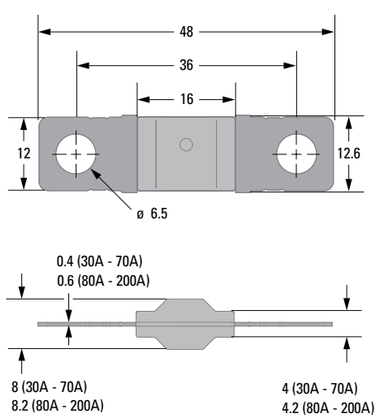
 </td><td> 
</td><td>4998***</td><td>70 V</td><td>2500 A</td><td>30A 100A
40A 125A
50A 150A
60A 175A
70A 200A
80A</td><td><table><tr><th rowspan="2">% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr><tr><th>30A-200A</th></tr><tr><td>100</td><td>360 000 / –</td></tr><tr><td>135</td><td>300 / 3600</td></tr><tr><td>150</td><td>90 / 500</td></tr><tr><td>200</td><td>1 / 50</td></tr><tr><td>300</td><td>0.3 / 4</td></tr><tr><td>500</td><td>0.1 / 1</td></tr><tr><td>600</td><td>0.07 / 0.7</td></tr></table></td><td>-40 °C to + 125 °C</td><td>Cu</td><td>Sn</td><td>PA66-
GF25FR
(UL94 V0)</td><td>-</td><td>M6</td><td>ISO 20934
(Type SF36-70V)
RoHS
UL 248-1</td></tr>
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Littelfuse®
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BOLT DOWN Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size (Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
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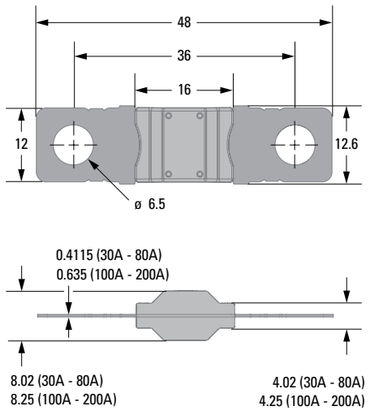
<td> 
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.MXISO</td>
<td>70 V</td>
<td>2500 A</td>
<td>30A 100A
40A 125A
50A 150A
60A 175A
70A 200A
80A</td>
<td>
<table>
<tr><th>% of Rating</th><th>Opening Time Min. / Max. (s)</th></tr>
<tr><th></th><th>30A-200A</th></tr>
<tr><td>100</td><td>360 000 / –</td></tr>
<tr><td>135</td><td>300 / 3600</td></tr>
<tr><td>150</td><td>90 / 500</td></tr>
<tr><td>200</td><td>1 / 50</td></tr>
<tr><td>300</td><td>0.3 / 4</td></tr>
<tr><td>500</td><td>0.1 / 1</td></tr>
<tr><td>600</td><td>0.07 / 0.7</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>To be defined</td>
<td>-</td>
<td>M5 / M6</td>
<td>ISO 20934
(Type SF36-70V)</td>
</tr>
<tr>
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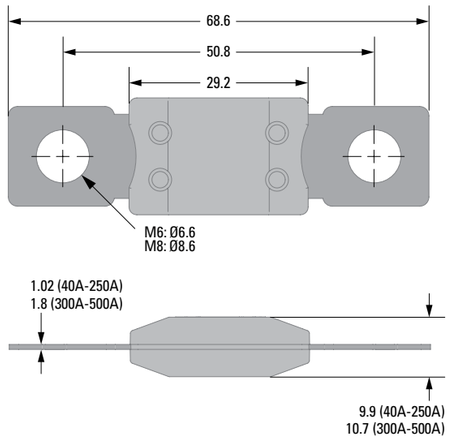
<td> 
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<td>0298***

0298***
.UXT</td>
<td>32 V</td>
<td>2000 A</td>
<td>40A 225A
60A 250A
80A 300A
1001A 350A
125A 400A
150A 450A
175A 500A
200A</td>
<td>
<table>
<tr><th>% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr>
<tr><th></th><th>40A-250A</th><th>300A-500A</th></tr>
<tr><td>75</td><td>– / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 15</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.5 / 5</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Ag
Optional</td>
<td>PPA-GF33HS
(UL94 HB)</td>
<td>PES
(Clear Housing)</td>
<td>M6 / M8</td>
<td>ISO 8820-5
(Type SF 51)
RoHS</td>
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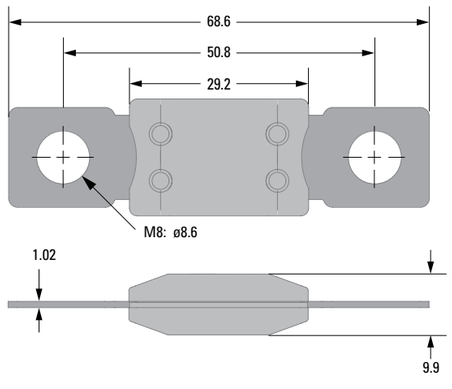
<td> 
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<td>0298***
.***LT</td>
<td>32 V</td>
<td>2000 A</td>
<td>125A 225A
150A 250A
175A 275A
200A</td>
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<table>
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<tr><td>135</td><td>120 / 1800</td><td>120 / 1800</td></tr>
<tr><td>200</td><td>1 / 50</td><td>1 / 150</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.3 / 5</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>125A:
Ag

150A -
275A
none</td>
<td>PPA-GF33HS
(UL94 HB)</td>
<td>-</td>
<td>M8</td>
<td>RoHS</td>
</tr>
</table>

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BOLT DOWN Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size
(Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr>
<td>MEGA UL
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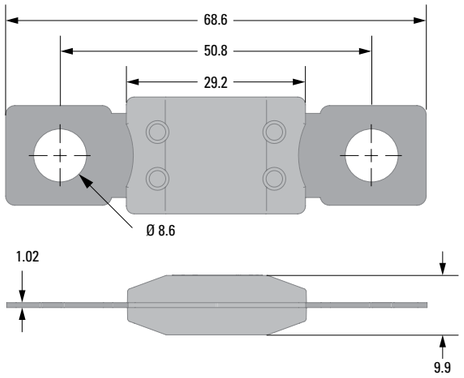
<td> 
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<td>0298***
.ZXEH-UL</td>
<td>32 V</td>
<td>2000 A</td>
<td>Marking Color
80A 150A
100A 175A
125A</td>
<td>
<table>
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<tr><th>80A-175A</th></tr>
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<tr><td>100</td><td>14 400 / –</td></tr>
<tr><td>135</td><td>120 / 1800</td></tr>
<tr><td>200</td><td>1 / 15</td></tr>
<tr><td>350</td><td>0.3 / 5</td></tr>
<tr><td>500</td><td>– / –</td></tr>
<tr><td>600</td><td>0.1 / 1</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>-</td>
<td>PPA-GF30FR
(UL94 V0)</td>
<td>-</td>
<td>M8</td>
<td>ISO 8820-5
(Type SF 51)
UL 248
RoHS</td>
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<td>MEGA +
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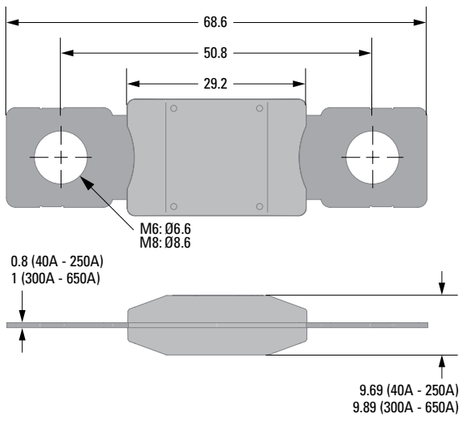
<td> 
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<td>0298***</td>
<td>32 V</td>
<td>2000 A</td>
<td>40A 225A
60A 250A
80A 300A
100A 350A
125A 400A
150A 450A
175A 500A
200A 650A</td>
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<tr><th rowspan="2">% of Rating</th><th colspan="4">Opening Time Min. / Max. (s)</th></tr>
<tr><th>40A-250A</th><th>300A</th><th>350A-500A</th><th>650A</th></tr>
<tr><td>75</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>150</td><td>20 / 450</td><td>– / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 15</td><td>1 / 15</td><td>1 / 15</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.5 / 5</td><td>0.5 / 5</td><td>0.5 / 5</td></tr>
<tr><td>500</td><td>– / –</td><td>0.1 / 2</td><td>0.1 / 2</td><td>– / –</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>– / –</td><td>0.1 / 1</td></tr>
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</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PET-GF30FR
(UL94 V0)</td>
<td>-</td>
<td>M6 / M8</td>
<td>ISO 8820-5
(Type SF 51)</td>
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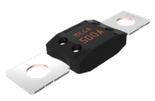
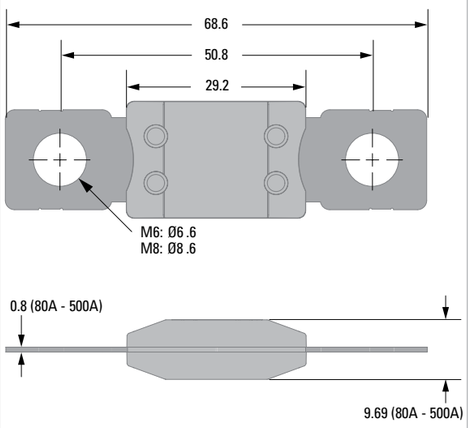
  </td>
<td> 
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<td>-</td>
<td>32 V</td>
<td>2000 A</td>
<td>80A 300A
100A 350A
125A 400A
150A 450A
175A 500A
200A
225A
250A</td>
<td>
<table>
<tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr>
<tr><th>80A-250A</th><th>300A</th><th>350A-500A</th></tr>
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<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td><td>– / –</td></tr>
<tr><td>150</td><td>20 / 450</td><td>– / –</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 15</td><td>1 / 15</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.5 / 5</td><td>0.5 / 5</td></tr>
<tr><td>500</td><td>– / –</td><td>0.1 / 2</td><td>0.1 / 1</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>– / –</td></tr>
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</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PET-GF30FR
(UL94 V0)</td>
<td>-</td>
<td>M6 / M8</td>
<td>ISO 8820-5</td>
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BOLT DOWN Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size
(Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
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60V HIGH
BREAKING
CAPACITY
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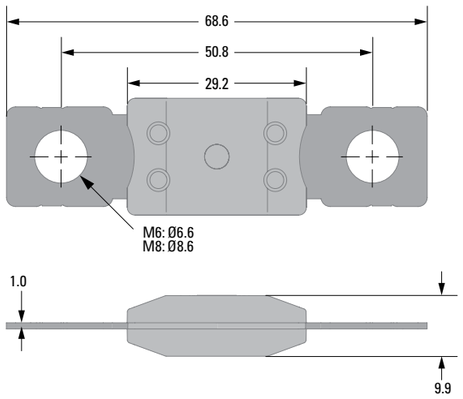
<td> 
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<td>0878450</td>
<td>60 V</td>
<td>5000 A</td>
<td>450A</td>
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<tr><th>Typical</th><th>Max.</th></tr>
<tr><th colspan="3">450A</th></tr>
<tr><td>200</td><td>28.5</td><td>35</td></tr>
<tr><td>211</td><td>13.8</td><td>18</td></tr>
<tr><td>222</td><td>7.85</td><td>9.5</td></tr>
<tr><td>333</td><td>0.99</td><td>1.2</td></tr>
<tr><td>444</td><td>0.51</td><td>0.65</td></tr>
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<td>-40 °C to + 85 °C</td>
<td>Cu</td>
<td>Sn /
Ni
Optional</td>
<td>PPA-GF33
(UL94 HB)</td>
<td>-</td>
<td>M6 / M8</td>
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SF51
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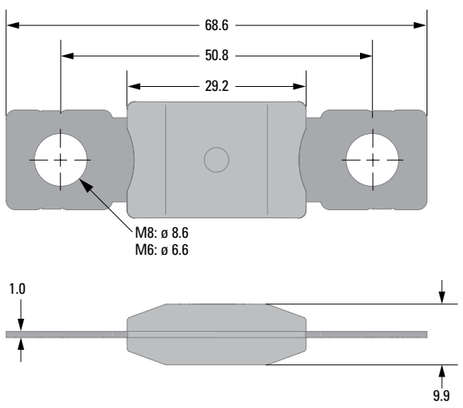
<td> 
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<td>0998***</td>
<td>70 V</td>
<td>2500 A</td>
<td rowspan="2">60A 225A
80A 250A
100A 300A
125A 350A
150A 400A
175A 450A
200A 500A</td>
<td rowspan="2">
<table>
<tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr>
<tr><th>60A-250A</th><th>300A</th><th>350A-500A</th></tr>
<tr><td>75</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>120 / 1800</td><td>– / –</td></tr>
<tr><td>150</td><td>20 / 450</td><td>20 / 450</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 15</td><td>1 / 15</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.3 / 5</td><td>0.5 / 5</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>0.1 / 1</td></tr>
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</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PPA-GF33
(UL94 HB)</td>
<td>-</td>
<td>M6 / M8</td>
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(Type SF51-70V)
RoHS</td>
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SF56
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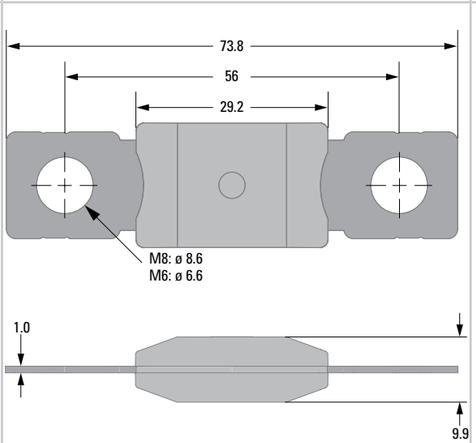
<td> 
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<td>0898***</td>
<td>70 V</td>
<td>2500 A</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>To be defined</td>
<td>-</td>
<td>M6 / M8</td>
<td>ISO 20934
(Type SF56-70V)
RoHS</td>
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Littelfuse
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BOLT DOWN Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size
(Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr>
<td>MEGA 70V ISO
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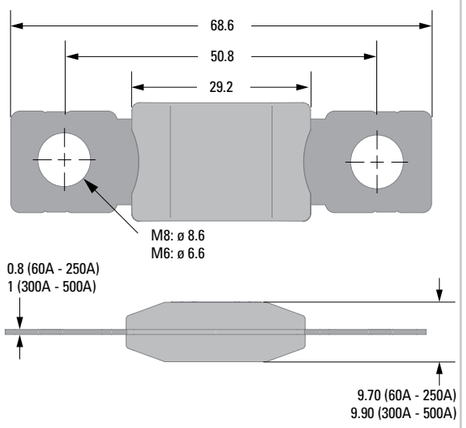
<td> 
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<td>0998***.
UXISO</td>
<td>70 V</td>
<td>2500 A</td>
<td>60A 225A
80A 250A
100A 300A
125A 350A
150A 400A
175A 450A
200A 500A</td>
<td><table><tr><th rowspan="2">% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr><tr><th>60A-250A</th><th>300A-500A</th></tr><tr><td>75</td><td>–</td><td>14 400 / –</td></tr><tr><td>100</td><td>14 400 / –</td><td>–</td></tr><tr><td>135</td><td>120 / 1800</td><td>–</td></tr><tr><td>150</td><td>20 / 450</td><td>–</td></tr><tr><td>200</td><td>1 / 15</td><td>1 / 15</td></tr><tr><td>350</td><td>0.3 / 5</td><td>0.5 / 5</td></tr><tr><td>600</td><td>0.1 / 1</td><td>–</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>To be defined</td>
<td>-</td>
<td>M6 / M8</td>
<td>ISO 20934
(Type SF51-70V)</td>
</tr>
<tr>
<td>MEGA 120V HP
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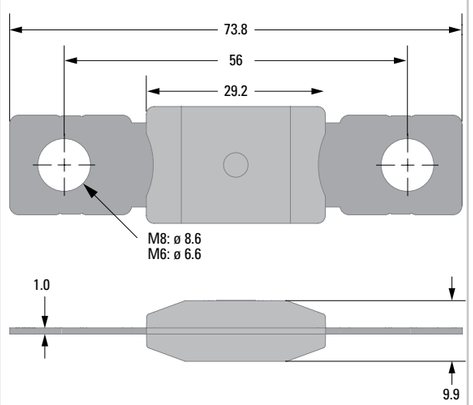
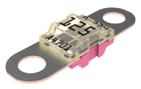
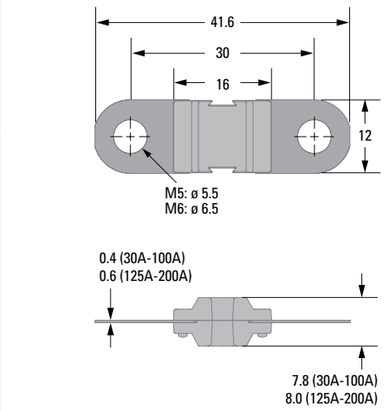
<td> 
</td>
<td>0888***</td>
<td>120 V</td>
<td>2500 A</td>
<td>60A 225A
80A 250A
100A 300A
125A 450A
150A 500A
175A 650A
200A</td>
<td><table><tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr><tr><th>60A-250A</th><th>300A</th><th>450A-650A</th></tr><tr><td>75</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td></tr><tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr><tr><td>135</td><td>120 / 1800</td><td>120 / 1800</td><td>– / –</td></tr><tr><td>150</td><td>20 / 450</td><td>20 / 450</td><td>– / –</td></tr><tr><td>200</td><td>1 / 15</td><td>1 / 15</td><td>1 / 15</td></tr><tr><td>350</td><td>0.3 / 5</td><td>0.3 / 5</td><td>0.5 / 5</td></tr><tr><td>600*</td><td>0.1 / 1</td><td>0.1 / 1</td><td>0.1 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PPA-GF33
(UL94 HB)</td>
<td>-</td>
<td>M6 / M8</td>
<td>RoHS</td>
</tr>
<tr>
<td>BF1 32V
  </td>
<td> 
</td>
<td>153.***
.***</td>
<td>32 V</td>
<td>1000 A
2000 A
1500 A</td>
<td>30A 80A
40A 100A
50A 125A
60A 150A
70A 200A</td>
<td><table><tr><th rowspan="2">% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr><tr><th>30A-125A</th><th>150A-200A</th></tr><tr><td>75</td><td>– / –</td><td>360 000 / –</td></tr><tr><td>100</td><td>360 000 / –</td><td>– / –</td></tr><tr><td>110</td><td>14 400 / –</td><td>– / –</td></tr><tr><td>150</td><td>90 / 3600</td><td>– / –</td></tr><tr><td>200</td><td>3 / 100</td><td>1 / 15</td></tr><tr><td>300</td><td>0.3 / 3</td><td>– / –</td></tr><tr><td>350</td><td>– / –</td><td>0.3 / 5</td></tr><tr><td>500</td><td>0.1 / 1</td><td>– / –</td></tr><tr><td>600</td><td>– / –</td><td>0.1 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PET-GF33
(UL94 V0)</td>
<td>PES
(UL94 V0)</td>
<td>M5 / M6</td>
<td>ISO 8820-5
(Type SF 30)
UL-248
RoHS</td>
</tr>
</table>

Littelfuse®
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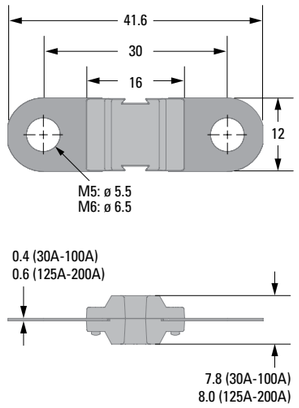
BOLT DOWN Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size
(Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr>
<td>BF1 58V
 </td>
<td> 
</td>
<td>142.
***</td>
<td>58 V</td>
<td>1000 A</td>
<td>30A 80A
40A 100A
50A 125A
60A 150A
70A 200A</td>
<td><table><tr><th rowspan="2">% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr><tr><th>30A-125A</th><th>150A-200A</th></tr><tr><td>75</td><td>– / –</td><td>360 000 / –</td></tr><tr><td>100</td><td>360 000 / –</td><td>– / –</td></tr><tr><td>110</td><td>14 400 / –</td><td>– / –</td></tr><tr><td>150</td><td>90 / 3600</td><td>– / –</td></tr><tr><td>200</td><td>3 / 100</td><td>1 / 15</td></tr><tr><td>300</td><td>0.3 / 3</td><td>– / –</td></tr><tr><td>350</td><td>– / –</td><td>0.3 / 5</td></tr><tr><td>500</td><td>0.1 / 1</td><td>– / –</td></tr><tr><td>600</td><td>– / –</td><td>0.1 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PET-GF33
(UL94 V0)</td>
<td>PES
(UL94 V0)</td>
<td>M5 / M6</td>
<td>ISO 8820-5
(Type SF 30)</td>
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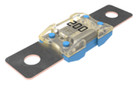
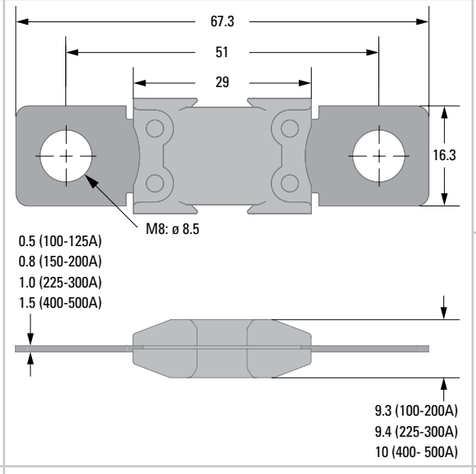
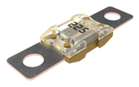
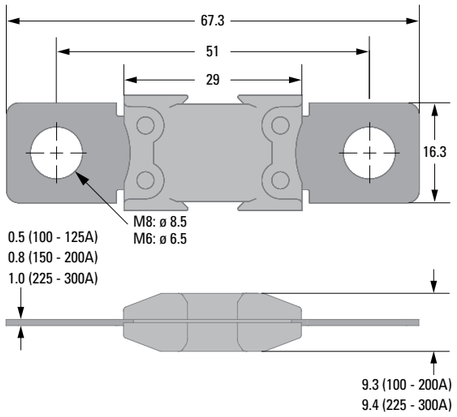
<tr>
<td>BF2 32V
  </td>
<td> 
</td>
<td>153.7011
.***
(M6)

153.5395
.***
(M8)</td>
<td>32 V</td>
<td>2000 A
(100 A -
300 A)
1500 A
(400 A -
500 A)</td>
<td>100A 225A
125A 250A
150A 300A
175A 400A
200A 500A</td>
<td><table><tr><th rowspan="2">% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr><tr><th>60A-250A</th><th>300A-500A</th></tr><tr><td>75</td><td>– / –</td><td>4 400 / –</td></tr><tr><td>100</td><td>14 400 / –</td><td>– / –</td></tr><tr><td>135</td><td>120 / 1800</td><td>– / –</td></tr><tr><td>200</td><td>1 / 15</td><td>1 / 15</td></tr><tr><td>350</td><td>0.3 / 5</td><td>0.5 / 5</td></tr><tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PET-GF30
(UL94 V0)</td>
<td>PES</td>
<td>M6 / M8

M6 / M8</td>
<td>ISO 8820-5
(Type SF 51)
UL-248
RoHS

-</td>
</tr>
<tr>
<td>BF2 58V
  </td>
<td> 
</td>
<td>142.5395****</td>
<td>58 V</td>
<td>1000 A</td>
<td>100A 200A
125A 225A
150A 250A
175A 300A</td>
<td><table><tr><th rowspan="2">% of Rating</th><th colspan="2">Opening Time Min. / Max. (s)</th></tr><tr><th>60A-250A</th><th>300A</th></tr><tr><td>75</td><td>– / –</td><td>4 400 / –</td></tr><tr><td>100</td><td>14 400 / –</td><td>– / –</td></tr><tr><td>135</td><td>120 / 1800</td><td>– / –</td></tr><tr><td>200</td><td>1 / 15</td><td>1 / 15</td></tr><tr><td>350</td><td>0.3 / 5</td><td>0.5 / 5</td></tr><tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td></tr></table></td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PET-GF30
(UL94 V0)</td>
<td>PES</td>
<td>M6 / M8</td>
<td>-</td>
</tr>
</table>

Littelfuse
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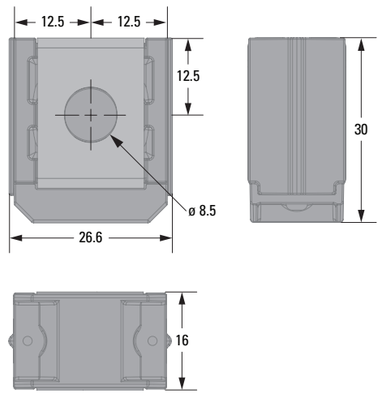
ZCASE Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size
(Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr>
<td>ZCASE/SINGLE
 </td>
<td> 
</td>
<td>3298***</td>
<td>32 V</td>
<td>2000 A</td>
<td>40A 225A
60A 250A
80A 300'A
100A 350'A
125A 400'A
150A 500'A
175A 600'A
200A SHUNT</td>
<td>
<table>
<tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr>
<tr><th>40A-250A</th><th>300A-500A</th><th>600A</th></tr>
<tr><td>50</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td><td>– / –</td></tr>
<tr><td>200</td><td>20 / 450</td><td>1 / 40</td><td>1 / 40</td></tr>
<tr><td>350</td><td>1 / 15</td><td>0.3 / 5</td><td>0.3 / 5</td></tr>
<tr><td>500</td><td>0.3 / 5</td><td>– / –</td><td>0.1 / 1</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>– / –</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PPA-GF33HS
(UL94 HB)</td>
<td>-</td>
<td>M6
(40A - 250A)
M8
(300A - 650A)</td>
<td>-</td>
</tr>
<tr>
<td>ZCASE M10
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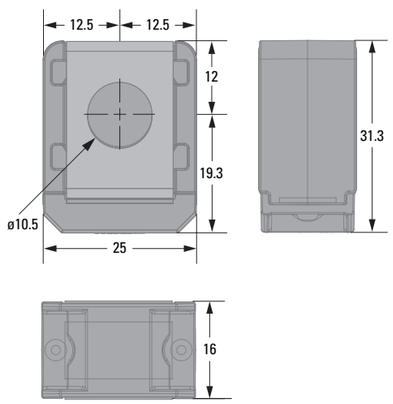
<td> 
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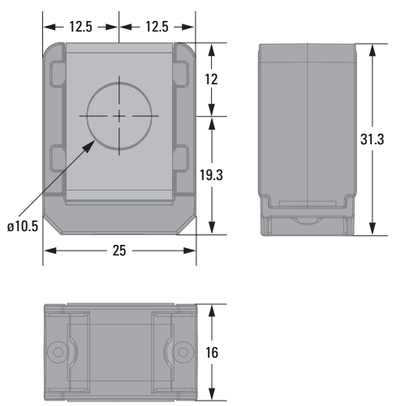
<td>3298***
.ZXM10</td>
<td>32 V</td>
<td>2000 A</td>
<td>80A 300A
100A 350A
125A 400A
150A 425A
175A 500A
200A 600A
225A SHUNT
250A</td>
<td>
<table>
<tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr>
<tr><th>40A-250A</th><th>300A-500A</th><th>600A</th></tr>
<tr><td>50</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 40</td><td>1 / 40</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.3 / 5</td><td>0.3 / 5</td></tr>
<tr><td>500</td><td>– / –</td><td>– / –</td><td>0.1 / 1</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>– / –</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PPA-GF33HS
(UL94 HB)</td>
<td>-</td>
<td>M10
(Special Screw)</td>
<td>-</td>
</tr>
<tr>
<td>ZCASE MATERIAL HANDLING
 </td>
<td> 
</td>
<td>3998***
.ZXM10</td>
<td>80 V</td>
<td>2000 A</td>
<td>70A 250A
80A 300A
100A 350A
125A 400A
150A 425A
160A 500A
175A 600A
200A SHUNT
225A</td>
<td>
<table>
<tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr>
<tr><th>40A-250A</th><th>300A-500A</th><th>600A</th></tr>
<tr><td>75</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 40</td><td>1 / 40</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.3 / 5</td><td>0.3 / 5</td></tr>
<tr><td>500</td><td>– / –</td><td>– / –</td><td>0.1 / 1</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>– / –</td></tr>
</table>
</td>
<td>-40 °C to + 125 °C</td>
<td>Cu</td>
<td>Sn</td>
<td>PPA-GF33HS
(UL94 HB)"</td>
<td>-</td>
<td>M10
(Special Screw)</td>
<td>-</td>
</tr>
</table>

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ZCASE Fuse Selection Chart

<table>
<tr><th rowspan="2">Fuse Type</th><th rowspan="2">Actual Fuse Size (Dimensions in mm)</th><th rowspan="2">Part No.</th><th colspan="4">Electrical Characteristics</th><th rowspan="2">Recommended Environmental Temperature</th><th colspan="4">Materials</th><th rowspan="2">Mating Terminal Size</th><th rowspan="2">Standard & Certifications</th></tr>
<tr><th>Voltage</th><th>Interrupting Current</th><th>Fuse Ratings</th><th>Operating Times</th><th>Metal</th><th>Plating</th><th>Housing</th><th>Cover</th></tr>
<tr><td>ZCASE+
 </td><td>Coming up</td><td>Coming up</td><td>32 V</td><td>2000 A</td><td>100A 300A
125A 350A
150A 400A
175A 425A
200A 500A
225A 600A
250A</td><td>
<table>
<tr><th rowspan="2">% of Rating</th><th colspan="3">Opening Time Min. / Max. (s)</th></tr>
<tr><th>40A-250A</th><th>300A-500A</th><th>600A</th></tr>
<tr><td>75</td><td>– / –</td><td>14 400 / –</td><td>14 400 / –</td></tr>
<tr><td>100</td><td>14 400 / –</td><td>– / –</td><td>– / –</td></tr>
<tr><td>135</td><td>120 / 1800</td><td>– / –</td><td>– / –</td></tr>
<tr><td>200</td><td>1 / 15</td><td>1 / 40</td><td>1 / 40</td></tr>
<tr><td>350</td><td>0.3 / 5</td><td>0.3 / 5</td><td>0.3 / 5</td></tr>
<tr><td>500</td><td>– / –</td><td>– / –</td><td>0.1 / 1</td></tr>
<tr><td>600</td><td>0.1 / 1</td><td>0.1 / 1</td><td>– / –</td></tr>
</table>
</td><td>-40 °C to + 125 °C</td><td>Cu</td><td>Optional</td><td>PPA-GF33HS</td><td>-</td><td>-</td><td>ISO 8820-5</td></tr>
</table>

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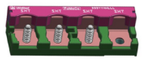
MASTERFUSE Fuse Selection Chart

Fuse Type	Actual Fuse Size (Dimensions in mm)	Part No.	Electrical Characteristics				Recommended Environmental Temperature	Materials				Mating Terminal Size	Standard & Certifications
			Voltage	Interrupting Current	Fuse Ratings	Operating Times		Metal	Plating	Housing	Cover		
FLAT MASTERFUSE	Customized	0698***	32 V	2000 A	40A - 650A	Customized	-40 °C to + 125 °C	Cu	Optional	PPA-GF33HS	-	-	ISO 8820-5
ZCASE MASTERFUSE	Customized	0598***	32 V	2000 A	40A - 650A	Customized	-40 °C to + 125 °C	Cu	Optional	PPA-GF33HS (UL94 HB)"	-	-	ISO 8820-5 RoHS
LP ZCASE MASTERFUSE 	Customized	-	32 V	2000 A	40A - 650A	Customized	-40 °C to + 125 °C	Cu	Sn (Optional)	PPA-GF33HS	-	-	-