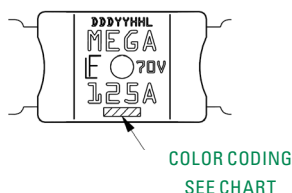


High Current Fuses



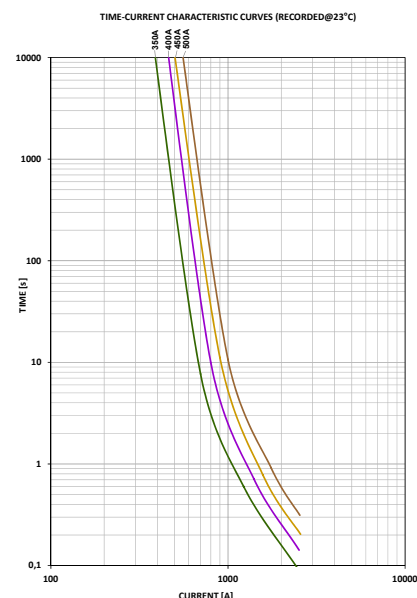
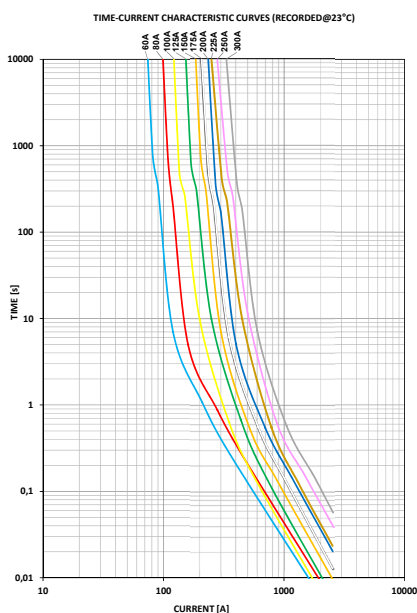
MEGA® High Performance Fuse Rated 70V-SF51

The MEGA® 70V-SF51 High Performance (HP) Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology." The MEGA 70V HP features 1MΩhm Open State Resistance after fuse opening to guarantee safe interruption at any voltage up to 70V. The MEGA® 70V HP Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

Specifications

Interrupting Rating:	2500A @ 70 VDC
Voltage Rating:	70 VDC
Operating Temperature Range:	-40°C to + 125°C
Housing Material:	PPA-GF33
Terminals:	ETP Copper (Tin plated)
Mounting Torque M6:	9Nm+/-1Nm
Mounting Torque M8:	20Nm+/-1Nm
Open State Resistance (after fuse opening)	>1MΩhm
According to:	ISO 20934 - Type SF51

Time-Current Characteristic Curves



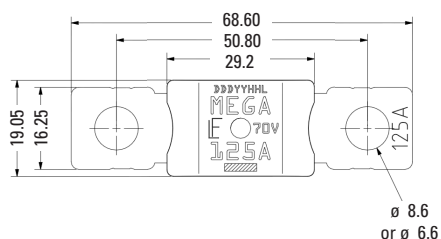
RoHS

Ordering Information

Part Number	Package Size	Rating	Bolt Size	Bolt Hole Qty
0998xxx.UX-2M8	500	60 - 500	M8	2
0998xxx.UX-1M8	500	60 - 500	M8	1
0998xxx.UX-2M6	500	60 - 500	M6	2
0998xxx.UX-1M6	500	60 - 500	M6	1
0998xxx.UX-NH	500	60 - 500	N/A	0

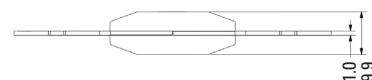
Dimensions

Dimensions in mm



Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)		
	60-250A	300A	350-500A
75	-/-	14,400 s / -	14,400 s / -
100	14,400 s / -	-/-	-/-
135	120 s / 1800 s	120 s / 1800 s	-/-
150	20 s / 450 s	20 s / 450 s	-/-
200	1 s / 15 s	1 s / 15 s	1 s / 15 s
350	0.3 s / 5 s	0.3 s / 5 s	0.500 s / 5 s
600	0.100 s / 1 s	0.100 s / 1 s	0.100 s / 1 s



Ratings

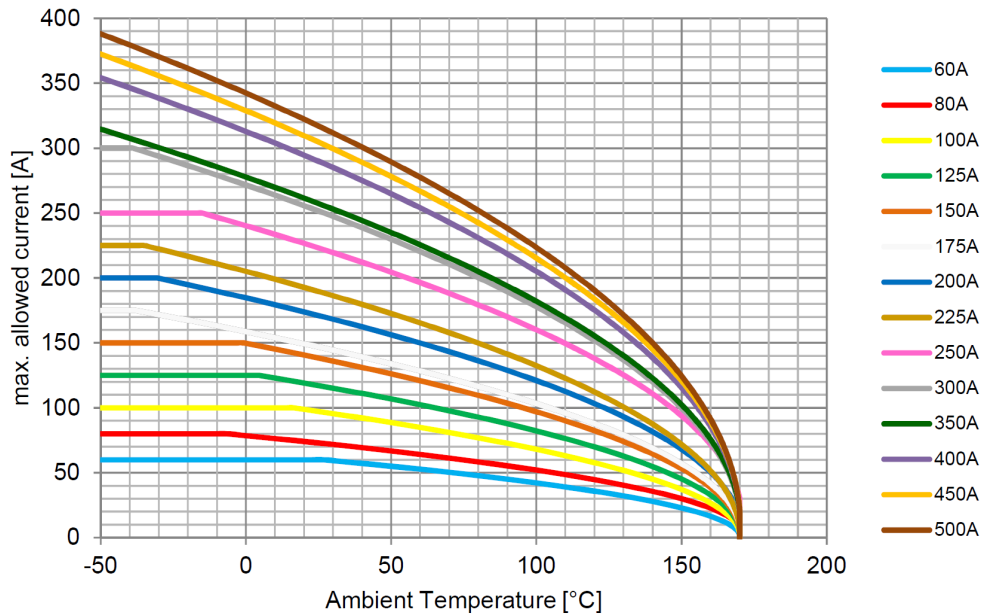
Part Number	Current Rating (A)	Font Color	Rated Voltage (V)	Voltage Drop (mV) max.	Wire (mm²)	I²t (A²s)
0998060._	60	Blue	70	110	6	22800
0998080._	80	Red	70	110	10	34900
0998100._	100	Yellow	70	110	10	24000
0998125._	125	Green	70	110	16	38000
0998150._	150	Orange	70	110	25	58100
0998175._	175	White	70	110	25	79300
0998200._	200	Blue	70	110	35	123600
0998225._	225	Brown	70	110	35	142500
0998250._	250	Pink	70	110	50	220000
0998300._	300	Grey	70	80	50	340000
0998350._	350	Black	70	80	50	495000
0998400._	400	Purple	70	80	70	872000
0998450._	450	Gold	70	80	70	1224000
0998500._	500	Brown	70	80	70	1800000

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High Current Fuses

MEGA® High Performance Fuse Rated 70V-SF51

Typical Derating Of Fuse Melting Element



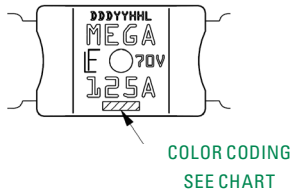
Temperature Security Margin is 20%

Wire Cross Sections And Test Fixture acc. ISO 20934

Temperature Table

	max. allowed current load [A] at ambient temperature							
	-20°C	0°C	20°C	65°C	85°C	95°C	105°C	125°C
60A	60	60	60	52	46	44	41	34
80A	80	79	74	63	57	54	50	43
100A	100	100	99	83	75	70	66	55
125A	125	125	119	100	90	85	79	66
150A	150	150	141	118	107	100	94	78
175A	168	159	149	126	113	107	100	84
200A	195	185	174	147	133	125	117	98
225A	217	205	193	162	146	137	128	107
250A	250	240	227	192	175	165	155	132
300A	287	272	256	216	195	184	172	145
350A	293	278	262	221	200	188	176	148
400A	330	313	295	248	225	212	198	167
450A	347	329	310	261	236	222	208	175
500A	361	342	322	271	245	231	216	181

High Current Fuses



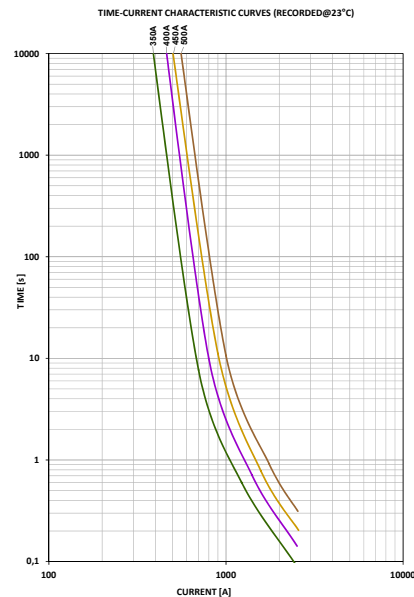
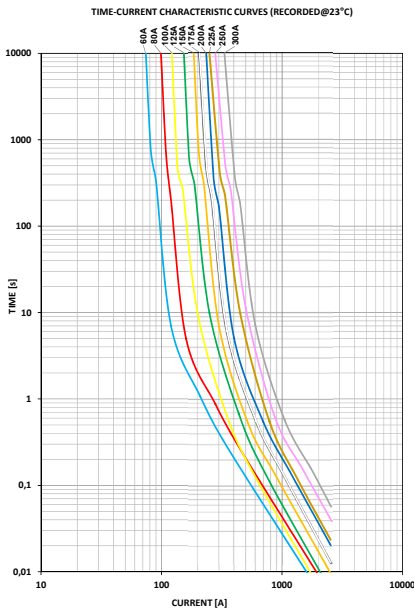
MEGA® High Performance Fuse Rated 70V-SF56

The MEGA® 70V-SF56 High Performance (HP) Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology." The MEGA 70V HP features 1MΩ Open State Resistance after fuse opening to guarantee safe interruption at any voltage up to 70V. The MEGA® 70V HP Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection. The bigger pitch of 56mm serves as a mechanical coding feature to avoid standard SF51 fuses being mounted.

Specifications

Interrupting Rating:	2500A @ 70 VDC
Voltage Rating:	70 VDC
Operating Temperature Range:	-40°C to + 125°C
Housing Material:	PPA-GF33
Terminals:	ETP Copper (Tin plated)
Mounting Torque M6:	9Nm+/-1Nm
Mounting Torque M8:	20Nm+/-1Nm
Open State Resistance (after fuse opening)	>1MΩ
According to:	ISO 20934 - Type SF56

Time-Current Characteristic Curves



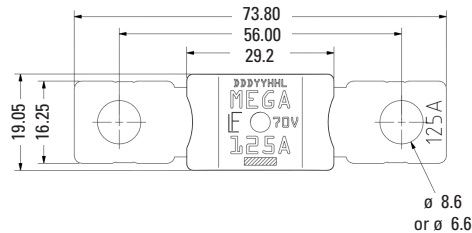
RoHS

Ordering Information

Part Number	Package Size	Rating	Bolt Size	Bolt Hole Qty
0898xxx.U-2M8	500	60 - 500	M8	2
0898xxx.U-1M8	500	60 - 500	M8	1
0898xxx.U-2M6	500	60 - 500	M6	2
0898xxx.U-1M6	500	60 - 500	M6	1
0898xxx.U-NH	500	60 - 500	N/A	0

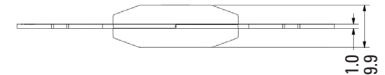
Dimensions

Dimensions in mm



Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)		
	60-250A	300A	350-500A
75	-/-	14,400 s / -	14,400 s / -
100	14,400 s / -	-/-	-/-
135	120 s / 1800 s	120 s / 1800 s	-/-
150	20 s / 450 s	20 s / 450 s	-/-
200	1 s / 15 s	1 s / 15 s	1 s / 15 s
350	0.3 s / 5 s	0.3 s / 5 s	0.500 s / 5 s
600	0.100 s / 1 s	0.100 s / 1 s	0.100 s / 1 s



Ratings

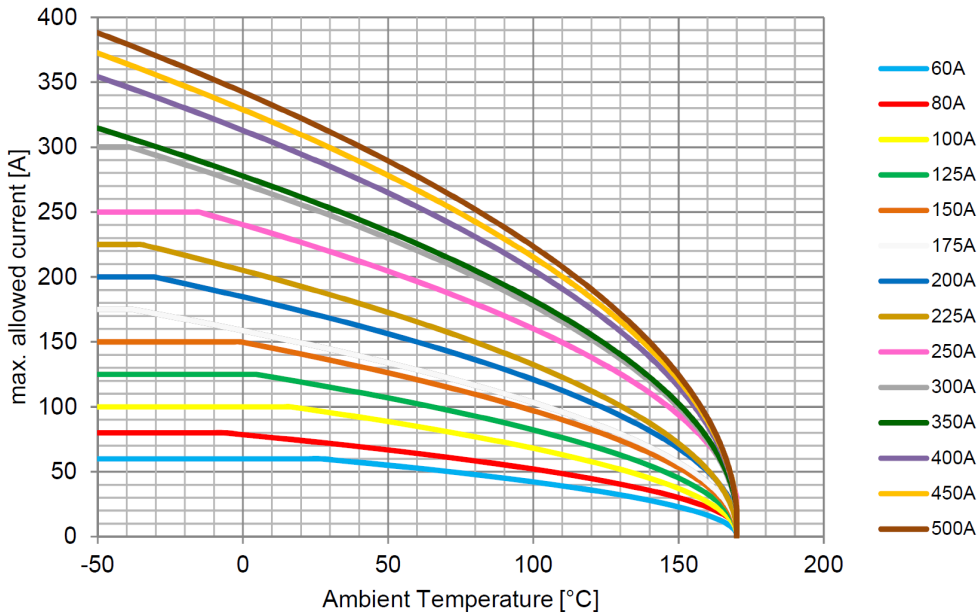
Part Number	Current Rating (A)	Color Code	Rated Voltage (V)	Voltage Drop (mV) max.	Wire (mm²)	I²t (A²s)
0898060._	60		70	110	6	22800
0898080._	80		70	110	10	34900
0898100._	100		70	110	10	24000
0898125._	125		70	110	16	38000
0898150._	150		70	110	25	58100
0898175._	175		70	110	25	79300
0898200._	200		70	110	35	123600
0898225._	225		70	110	35	142500
0898250._	250		70	110	50	220000
0898300._	300		70	80	50	340000
0898350._	350		70	80	50	495000
0898400._	400		70	80	70	872000
0898450._	450		70	80	70	1224000
0898500._	500		70	80	70	1800000

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High Current Fuses

MEGA® High Performance Fuse Rated 70V-SF56

Typical Derating Of Fuse Melting Element



Temperature Table

	max. allowed current load [A] at ambient temperature							
	-20°C	0°C	20°C	65°C	85°C	95°C	105°C	125°C
60A	60	60	60	52	46	44	41	34
80A	80	79	74	63	57	54	50	43
100A	100	100	99	83	75	70	66	55
125A	125	125	119	100	90	85	79	66
150A	150	150	141	118	107	100	94	78
175A	168	159	149	126	113	107	100	84
200A	195	185	174	147	133	125	117	98
225A	217	205	193	162	146	137	128	107
250A	250	240	227	192	175	165	155	132
300A	287	272	256	216	195	184	172	145
350A	293	278	262	221	200	188	176	148
400A	330	313	295	248	225	212	198	167
450A	347	329	310	261	236	222	208	175
500A	361	342	322	271	245	231	216	181

Mouser Electronics

Authorized Distributor

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IXYS:

[0998100.UX-2M8](#)

Littelfuse:

<u>0998080.UX-2M8</u>	<u>0998250.U-2M8</u>	<u>0998300.U-2M8</u>	<u>0998225.UX-2M6</u>	<u>0998060.UX-1M6</u>	<u>0998060.UX-1M8</u>
<u>0998060.UX-2M6</u>	<u>0998060.UX-2M8</u>	<u>0998060.UX-NH</u>	<u>0998080.UX-1M6</u>	<u>0998080.UX-1M8</u>	<u>0998080.UX-2M6</u>
<u>0998080.UX-NH</u>	<u>0998100.UX-1M6</u>	<u>0998100.UX-1M8</u>	<u>0998100.UX-2M6</u>	<u>0998100.UX-NH</u>	<u>0998125.UX-1M6</u>
<u>0998125.UX-1M8</u>	<u>0998125.UX-2M6</u>	<u>0998125.UX-2M8</u>	<u>0998125.UX-NH</u>	<u>0998150.UX-1M6</u>	<u>0998150.UX-1M8</u>
<u>0998150.UX-2M6</u>	<u>0998150.UX-2M8</u>	<u>0998150.UX-NH</u>	<u>0998175.UX-1M6</u>	<u>0998175.UX-1M8</u>	<u>0998175.UX-2M6</u>
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<u>0998200.UX-NH</u>	<u>0998225.UX-1M6</u>	<u>0998225.UX-1M8</u>	<u>0998225.UX-2M8</u>	<u>0998225.UX-NH</u>	<u>0998250.UX-1M6</u>
<u>0998250.UX-1M8</u>	<u>0998250.UX-2M6</u>	<u>0998250.UX-2M8</u>	<u>0998250.UX-NH</u>	<u>0998300.UX-1M6</u>	<u>0998300.UX-1M8</u>
<u>0998300.UX-2M6</u>	<u>0998300.UX-NH</u>	<u>0998350.UX-1M6</u>	<u>0998350.UX-1M8</u>	<u>0998350.UX-2M6</u>	<u>0998350.UX-NH</u>
<u>0998400.UX-1M6</u>	<u>0998400.UX-1M8</u>	<u>0998400.UX-2M6</u>	<u>0998400.UX-NH</u>	<u>0998450.UX-1M6</u>	<u>0998450.UX-1M8</u>
<u>0998450.UX-2M6</u>	<u>0998450.UX-NH</u>	<u>0998500.UX-1M6</u>	<u>0998500.UX-1M8</u>	<u>0998500.UX-2M6</u>	<u>0998500.UX-NH</u>