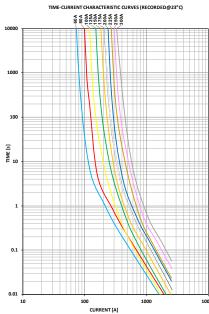
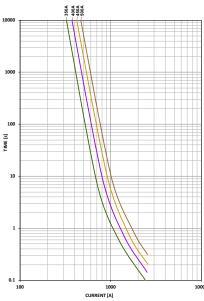
High Current Fuses



MEGA® 70V HP Fuse-SF51

Time-Current Characteristic Curves





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 1MOhm 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

Voltage Rating: 70 VDC

 $\begin{array}{ll} \mbox{Interrupting Rating:} & 2500 \mbox{\em @ 70 VDC} \\ \mbox{Recommended Environmental Temperature:} & -40 \mbox{\em °C to} + 125 \mbox{\em °C} \\ \mbox{Terminals Material:} & \mbox{Tin Plated Copper} \\ \end{array}$

Housing Material: PPA-GF33 (U.L. 94 Flammability rating — HB)

Mounting Torque M6: 9Nm+/-1Nm
Mounting Torque M8: 20Nm+/-1Nm
Open State Resistance (after fuse opening) >1MOhm

Complies With: ISO 20934 - Type SF51

RoHS

Ordering Information

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

Time-Current Characteristics

% of	Openin	Opening Time Min / Max (s)				
Rating	60-250A	300A	350-500A			
75	-/-	14,400 / ∞	14,400 s / ∞			
100	14,400 / ∞	-/-	-/-			
135	120 / 1800	120 / 1800	-/-			
150	20 / 450	20 / 450	-/-			
200	1 / 15	1 / 15	1 / 15			
350	0.3 / 5	0.3 / 5	0.5 / 5			
600	0.1 / 1	0.1 / 1	0.1 / 1			

Ratings

Part Number	Current Rating (A)	Font Color	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (m Ω)	Typ. I ² t (A ² s)
0998060	60		6	75.5	0.90	22,800
0998080	80		10	88.0	0.75	34,900
0998100	100		10	66.7	0.46	24,000
0998125	125		16	70.4	0.37	38,000
0998150	150		25	70.6	0.32	58,100
0998175	175		25	79.2	0.28	79,300
0998200	200		35	76.9	0.24	123,600
0998225	225		35	76.6	0.21	142,500
0998250	250		50	66.0	0.17	220,000
0998300	300		50	46.9 ²	0.15	340,000
0998350	350 ¹		50	50.7 ²	0.14	495,000
0998400	400 ¹		70	50.1 ²	0.12	872,000
0998450	450 ¹		70	52.9 ²	0.10	1,224,000
0998500	500 ¹		70	56.3 ²	0.09	1,800,000

¹ Short Circuit Protector only

The typical I2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

REV07272021

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 $^{^2\,\}mbox{Voltage}$ Drop measurements for short circuit protectors taken at 75% of rated current.

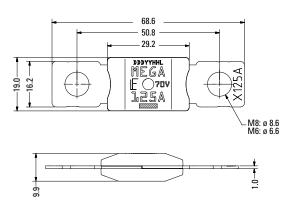
High Current Fuses

MEGA® High Performance Fuse Rated 70V-SF51

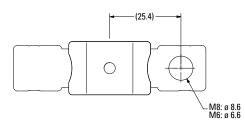
Dimensions

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

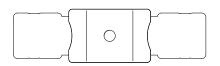
MEGA HP SF51 2 Holes M8/M6 versions



MEGA HP SF51 1 Hole M8/M6 versions

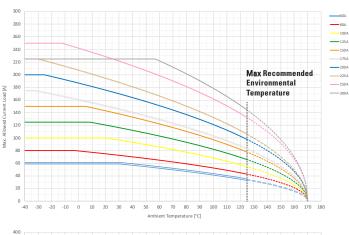


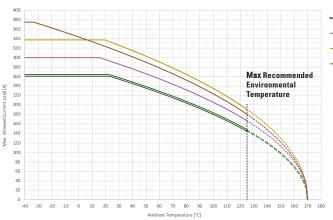
MEGA HP SF51 No-Holes version



Typical Derating Of Fuse Melting Element

Temperature Security Margin is 20% Please Contact Littelfuse For Details Regarding Derating Test Set Up





Temperature Table

	max. allowed current load [A] at ambient temperature							
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C	
60A	60	60	60	52	47	39	34	
80A	80	79	75	63	57	49	43	
100A	100	100	100	84	75	63	55	
125A	125	125	120	101	90	76	66	
150A	150	150	143	119	107	90	78	
175A	175	160	151	126	114	95	83	
200A	200	187	176	148	133	112	98	
225A	225	207	195	163	146	123	106	
250A	250	242	229	194	177	151	132	
300A	225	225	225	217	196	166	144	
350A	263	263	263	222	200	168	146	
400A	300	300	296	250	226	191	167	
450A	338	338	337	285	257	218	191	
500A	375	344	323	272	246	207	180	

Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc..).

Please ask Littelfuse® for more information.

REV0727202

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