



New product introduction

MEGA+ RIVET

PVB Protection, TM

11th April 2024 – Rev. L

 **Littelfuse®**
Expertise Applied | Answers Delivered

MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V



PROTECT

OVERVIEW

The **MEGA+® RIVET** fuse is designed for high current circuit protection and provides time delay characteristics.

Available in different mounting configurations, the **MEGA+® RIVET** fuse covers a wide range of rating (80 A up to 500 A) with the same terminal thickness of 0.8 mm.

The four metal rivets improve the mechanical resistance to stress, tightening torques and forces generated by eventual short-circuits, making this new bolt-down fuse extremely robust.

High contrast OCR white marking is ideal for camera reading in the assembly lines.

The **MEGA+® RIVET** Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.



[MEGA Plus Rivet Series - High Current Fuses](#)

MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V



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GENERAL SPECIFICATIONS

Interrupting Rating:	2000A @32VDC
Voltage Rating:	32VDC
Operating Temperature Range:	-40 °C up to +125 °C
Housing Material:	PET-GF30FR
Flammability acc. UL94:	V0
Terminal Material:	Copper alloy
Terminal Plating:	Tin
Typical Weight per fuse:	12 g
M6 Mounting Torque:	8-14 Nm - recommended range value
M8 Mounting Torque:	12-18 Nm - recommended range value (25 Nm max. allowed)
Refer to:	ISO 8820-5
Fuse rating:	80 A – 500 A



MEGA+ RIVET Series

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FEATURES & BENEFITS

- ISO-compliant OCR-A Font (high contrast)
- Tin plated Terminals
- High torque withstand ability (up to 25 Nm)
- Housing Material acc. UL94 V0
- Terminal thickness of 0.8 mm over all ratings (80A up to 500A)
- Laser marked date code
- Variant range:
 - 2-Holes (M6/ M8)
 - 1-Hole (M6/M8)
 - No-holes (clinch version)



2-Holes M6/M8



1-Hole M6/M8



No-Holes

MEGA+ RIVET Series

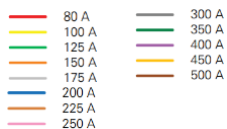
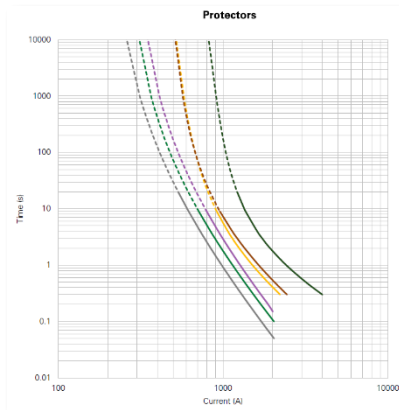
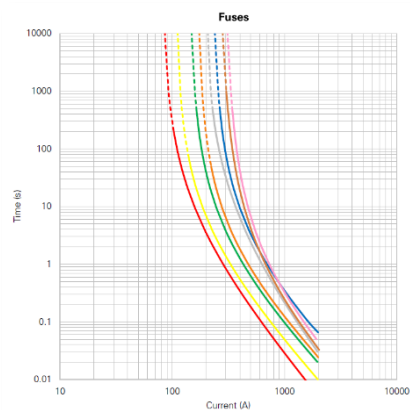
Bolt-down fuse – Rated 32 V



PROTECT

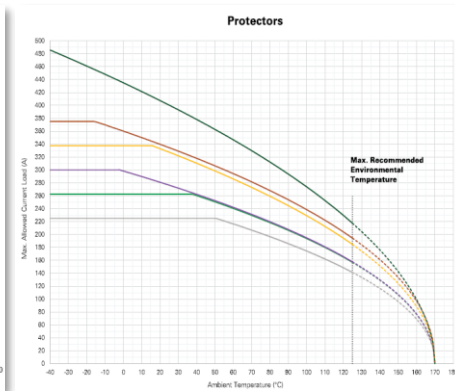
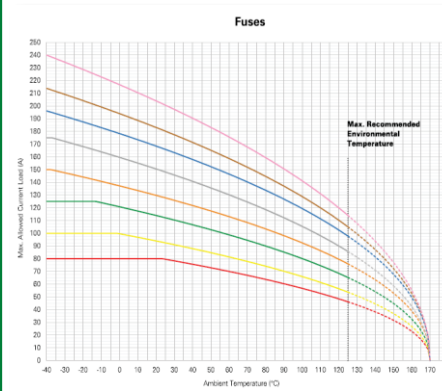
PERFORMANCES – OPERATING TIMES

MEGA+ RIVET cover all the operating times according ISO 8820-5

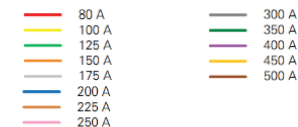


% of Rating	Opening Time Min. / Max. (s)		
	80 A - 250 A	300 A	350 A - 500 A
75	- / -	14400 / -	14400 / -
100	14400 / -	- / -	- / -
135	120 / 1800	- / -	- / -
150	20 / 450	- / -	- / -
200	1 / 15	1 / 15	1 / 15
350	0.3 / 5	0.5 / 5	0.5 / 5
500	- / -	0.1 / 2	0.1 / 2
600	0.1 / 1	0.1 / 1	- / -

PERFORMANCES – DERATING



Max. allowed current load (A) at ambient temperature based on typical derating							
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
80 A	80	80	80	68	62	53	46
100 A	100	100	94	80	72	61	54
125 A	125	121	114	97	88	75	65
150 A	150	137	130	111	101	86	76
175 A	175	160	151	127	115	98	86
200 A	196	178	168	143	130	111	98
225 A	214	194	183	155	141	120	105
250 A	240	217	204	172	155	131	114
300 A	225	225	225	212	191	162	141
350 A	263	263	263	235	213	180	157
400 A	300	300	300	237	214	181	158
450 A	338	338	333	280	252	213	185
500 A	375	360	340	288	261	222	194



Product in development

Final values for voltage drop, resistance, melting I²t, T/C curves and derating curves, will be generated from PV tests data.

MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V



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COMPARISON WITH EXISTING PRODUCTS

MEGA® (.ZXEH & .ZXH)

[MEGA® 32V - Littelfuse](#)

- Fuse rating NOT in OCR-A font (ISO color coding)
- Series name (MEGA) hot stamped
- Voltage rating (engraved)
- Littelfuse brand name (hot stamped)
- Date code
- Metal rivets assembly technology
- Different terminal thicknesses between ratings (1.02 mm and 1.8 mm)
- High tightening torque withstand ability (up to 25 Nm)
- Series ID (engraved)
- Patent number (engraved)
- No plating



MEGA+ (.UXP)

[MEGA+® Fuse Rated 32V - Littelfuse](#)

- Fuse rating in OCR-A font (ISO color coding)
- Series name (MEGA+) laser marked
- Voltage rating (laser marked)
- Littelfuse logo (laser marked)
- Date code (laser marked)
- Ultrasonic welding assembly technology
- Different terminal thicknesses between ratings (0.8 mm and 1 mm)
- High tightening torque withstand ability (up to 25 Nm)
- Tin plated



NEW MARKET PRODUCT: **MEGA+ RIVET (.UXR)**

[MEGA Plus Rivet Series - High Current Fuses](#)

- Fuse rating and series name (MEGA) in OCR-A font (ISO color coding), on both sides
- Voltage rating (engraved)
- Littelfuse logo (engraved)
- Date code (laser marked)
- Metal rivets assembly technology
- Same terminal thickness across all fuse ratings (thk 0.8 mm)
- High tightening torque withstand ability (up to 25 Nm)
- Tin plated



MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V



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COMPARISON WITH EXISTING PRODUCTS - DERATING

MEGA® (.ZXEH & .ZXH)

[MEGA® 32V - Littelfuse](#)

Max. allowed current load (A) at ambient temperature (typical derating)							
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
40A	36	33	31	26	23	20	17
60A	50	45	43	36	32	27	24
80A	80	77	73	61	56	47	41
100A	100	97	91	76	69	58	51
125A	125	123	116	98	89	76	66
150A	150	143	135	114	103	87	76
175A	175	158	149	125	113	95	83
200A	195	176	166	140	127	107	94
225A	205	186	175	148	135	115	100
250A	243	220	207	175	158	134	117
300A	225	225	225	205	185	156	136
350A	263	263	263	232	210	177	154
400A	300	300	284	240	217	184	160
450A	338	320	302	257	234	200	176
500A	375	359	338	285	258	218	190

MEGA+ (.UXP)

[MEGA+® Fuse Rated 32V - Littelfuse](#)

MEGA+ has equal or slightly better Derating values compared to MEGA "REGULAR"

Max. Allowed Current Load (A) at Ambient Temperature based on Typical Derating							
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
80A	80	80	80	68	62	53	46
100A	100	100	94	80	72	61	54
125A	125	121	114	97	88	75	65
150A	150	137	130	111	101	86	76
175A	175	160	151	127	115	98	86
200A	196	178	168	143	130	111	98
225A	214	194	183	155	141	120	105
250A	240	217	204	172	155	131	114
300A	225	225	225	212	191	162	141
350A	263	263	263	235	213	180	157
400A	300	298	281	237	214	181	158
450A	338	338	333	280	252	213	185
500A	375	360	340	288	261	222	194

NEW MARKET PRODUCT: MEGA+ RIVET (.UXR)

[MEGA Plus Rivet Series - High Current Fuses](#)

Same Derating values of MEGA+ including protectors with element thickness of 0.8 mm!

Max. Allowed Current Load (A) at Ambient Temperature based on Typical Derating							
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
80A	80	80	80	68	62	53	46
100A	100	100	94	80	72	61	54
125A	125	121	114	97	88	75	65
150A	150	137	130	111	101	86	76
175A	175	160	151	127	115	98	86
200A	196	178	168	143	130	111	98
225A	214	194	183	155	141	120	105
250A	240	217	204	172	155	131	114
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350A	263	263	263	235	213	180	157
400A	300	298	281	237	214	181	158
450A	338	338	333	280	252	213	185
500A	375	360	340	288	261	222	194



Expertise Applied | Answers Delivered

ISO 8820-5 does not include the 40A and the 60A rating for MEGA product series

Product in development

Final values for voltage drop, resistance, melting I_P, T/C curves and derating curves, will be generated from PV tests data.

MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V

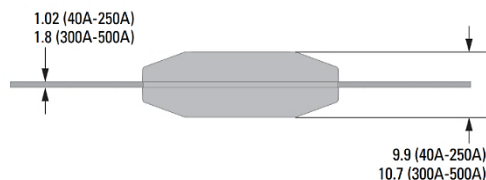
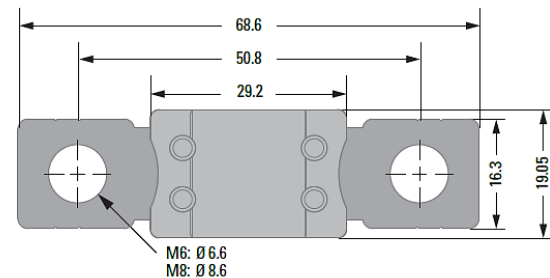


PROTECT

COMPARISON WITH EXISTING PRODUCTS - DIMENSIONS

MEGA® (.ZXEH & .ZXH)

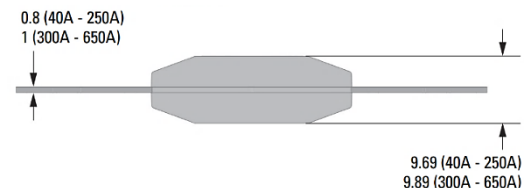
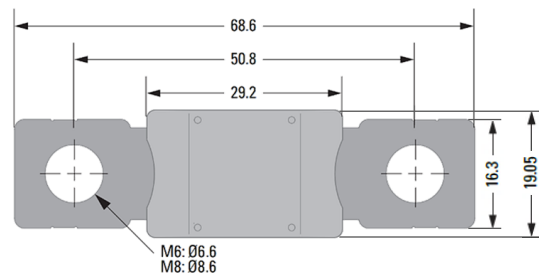
[MEGA® 32V - Littelfuse](#)



MEGA+ (.UXP)

[MEGA+® Fuse Rated 32V - Littelfuse](#)

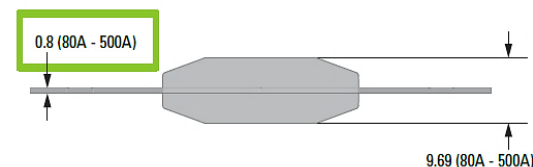
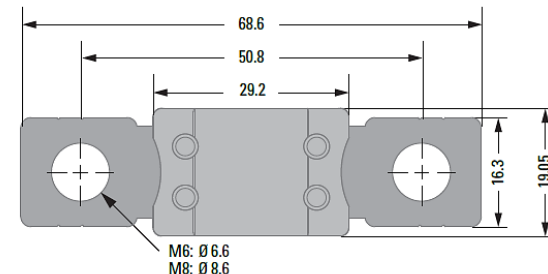
Thinner metal terminals compared to MEGA "REGULAR"



NEW MARKET PRODUCT: MEGA+ RIVET (.UXR)

[MEGA Plus Rivet Series - High Current Fuses](#)

Same overall dimensions than MEGA "REGULAR" and MEGA+, but **same terminals thickness across all ratings**



MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V



PROTECT

MARKINGS

FUSE RATING & MEGA SERIES NAME

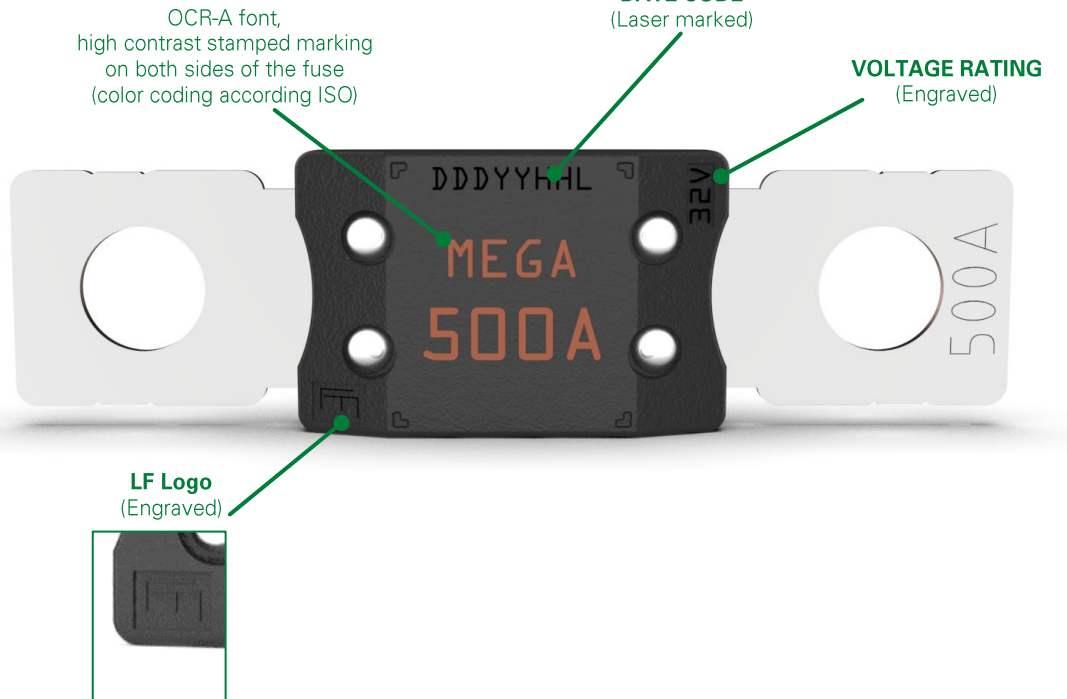
OCR-A font,
high contrast stamped marking
on both sides of the fuse
(color coding according ISO)

DATE CODE

(Laser marked)

VOLTAGE RATING

(Engraved)



LF Logo

(Engraved)



Expertise Applied | Answers Delivered

MEGA+ RIVET Series

Bolt-down fuse – Rated 32 V



DATASHEET

MEGA Plus Rivet Series – High Current Fuses

Fuse Datasheet

MEGA®+ RIVET Series
 Bolt-down Fuses – Rated 32 V DC

RoHS



Description

The MEGA® RIVET fuse is designed for high current circuit protection and provides time delay characteristics. Available in different mounting configurations, the MEGA® RIVET fuse covers a wide range of rating [80 A up to 500 A] with the same terminal thickness of 0.8 mm.

The four metal rivets improve the mechanical resistance to stress, tightening torques and forces generated by eventual short-circuits, making this new bolt-down fuse extremely robust. High contrast OCR marking (color coding according ISO) is ideal for camera reading in the assembly lines.

The MEGA® RIVET Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

Additional Information


 Resources


 Samples

Features & Benefits

- High tightening torque (up to 25 Nm for M8 version)
- High-contrast colored OCR marking easily readable by camera and naked eye
- Terminals in tin plated copper alloy
- Housing in PET-GF30FR (UL 94 V-0 Flammability rating – V0)
- Refers to ISO 8820-5

Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Buses
- Watercraft as approved by LloydsFUSE®

See Disclaimer Notice

Specifications

Voltage Rating:	32 V DC
Interrupting Rating:	2000 A @ 32 V DC
Recommended Environmental Temperature:	-40 °C to +125 °C
Terminals Material:	Tin-plated copper alloy
Housing Material:	PEI (polyamide, UL 94 V-0 Flammability rating of V0)
Typical Weight per Fuse:	12.0 g
Mounting Torque MB:	9 - 14 Nm (Recommended range value)
Mounting Torque MB:	12 - 16 Nm (Recommended range value)
Refer to:	ISO 8820-5

Fuse Datasheet

MEGA®+ RIVET Series
 Bolt-down Fuses – Rated 32 V DC

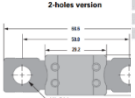
Fuse Datasheet

Ordering Information

Part Number	Current Rating
6200100-1	80 A - 500
6200100-2	80 A - 500
6200100-3	80 A - 500
6200100-4	80 A - 500
6200100-5	80 A - 500

Dimensions

Dimensions in mm. Please refer to the outline drawing.



2-holes version

MEGA®+ RIVET Series

 Bolt-down Fuses – Rated 32 V DC

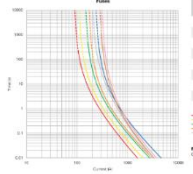
Rated

Part Number	Current Rating
6200100-1	80
6200100-2	100
6200100-3	125
6200100-4	150
6200100-5	175
6200100-6	200
6200100-7	250
6200100-8	300
6200100-9	350
6200100-10	400
6200100-11	450
6200100-12	500

1. Part Code Prefix only. Please do not use this code for ordering.
 2. Refer to the recommended for their dimensions.

Note: The value "1" is an average value calculated from the 12.

Time-Current Characteristic



Time (s)

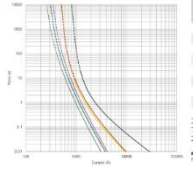
Current (A)

% of Rating

80 A, 100 A, 125 A, 150 A, 175 A, 200 A, 250 A, 300 A, 350 A, 400 A, 450 A, 500 A

Note: Current increases from the indicated value.

Protections



Time (s)

Current (A)

% of Rating

75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500

Note: Current increases from the indicated value.

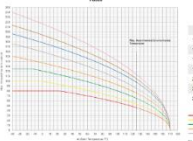
MEGA®+ RIVET Series

 Bolt-down Fuses – Rated 32 V DC

Typical Derating Curves

Temperature security margin is 20%.

Please consult "Littelfuse" for details regarding Derating Test Set Up.



Time (s)

Current (A)

% of Rating

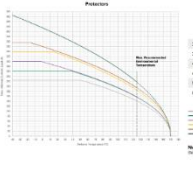
80 A, 100 A, 125 A, 150 A, 175 A, 200 A, 250 A, 300 A, 350 A, 400 A, 450 A, 500 A

Note: Current recommendation may be improved by the final condition of the application (ambient temperature, etc.). Please consult "Littelfuse" for more information.

MEGA®+ RIVET Series

 Bolt-down Fuses – Rated 32 V DC

Protections



Time (s)

Current (A)

% of Rating

75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500

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 Bolt-down Fuses – Rated 32 V DC