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AUTOMOTIVE
AFTERMARKET
CIRCUIT
PROTECTION
CATALOG



AFTERMARKET

Genuine OEM Circuit Protection Products

Circuit Protection Today

An overview of today's fuse market . . .

- New vehicles contain 90 to 150 fuses throughout the vehicle in 3 to 4 different fuse blocks. For example, the BMW 750i uses over 150 fuses.
- High amperage products — MAXI, MEGA, MIDI, and ZCASE fuses — make up 1 out of every 5 fuses in new vehicles.
- The past decade has produced more automotive circuit protection devices than the entire history of the industry.
- Fuse and circuit breaker applications have grown by 400% in the past 10 years.
- Glass fuses have not been used as a primary original equipment circuit protection device since 1981. Unit movement has been steadily declining, although glass fuses are used in many accessory applications.

Littelfuse partners with every major automotive and heavy-duty OEM. That is why more than 95% of domestic and 70% of foreign new vehicles contain Littelfuse fuses. (Your customers and installers will have a Littelfuse fuse in their hand when they need a source to replace a fuse.) Littelfuse has introduced every new fuse in the industry for the past three decades, starting with the ATO blade fuse. Littelfuse holds more than 130 patents on circuit protection devices, more than all the other fuse manufacturers in the world combined. Other fuse manufacturers are licensed by Littelfuse to utilize its product designs and trademarks.

What is Driving the Circuit Protection Market?

The Circuit Protection market is experiencing accelerated growth caused by a combination of powerful forces driving the market. There has never been a better time to invest in the distribution of the Circuit Protection category.

- **One Wire — One Fuse Protection Trend:** Auto manufacturers are moving towards protecting every wire in the vehicle.
- **More Power Consumption:** Vehicles are consuming power at higher amperages than ever before, and manufacturers are now protecting high amp applications, such as the alternator, with MEGA, MIDI, MAXI and ZCASE fuses.
- **Space & Weight Efficiency:** As vehicle designs get more complex, fuses must get smaller so more fuses can fit in the same amount of space.
- **Greater Diversity of Fuses:** Vehicles contain more fuses than ever before, so Aftermarket Customers and Installers are requiring a greater variety of circuit protection devices in their displays, assortments and merchandisers.
- **More On-Board Electronics:** Auto manufacturers and Aftermarket suppliers are offering a broader range of on-board components like cellular phones, DVD players, WI-FI, Bluetooth, navigation, alarm systems and remote starters which require circuit protection for installation and replacement.

- **New Market Niches:** The increased demand in circuit protection is offering current channels of distribution new marketing opportunities in the Fast Lube, Warehouse Club and Electrical Accessories Installer channels or any outlet stocking electrical replacement parts.
- **Longer Vehicle Life:** The life expectancy of cars is increasing to 20+ years. This results in more miles driven and wiring that is aging, leading to more blown fuses that need to be replaced.
- **Easier Access to Fuse Blocks:** Auto manufacturers have moved fuse blocks into the passenger compartments, e.g. glove box, dashboard and trunk, making it easier for DIY replacement. Fuseblocks are also better marked for easier identification of the proper circuit.
- **Infotainment:** The increasing use of video and other new electronics in vehicles have challenged designers to protect even more sensitive automotive electronics. New technologies in circuit protection and fuse box design eliminate transient surges that can damage vehicle equipment.

The Future of Circuit Protection

Littelfuse's new product development process is based on practical innovations designed around the needs of the customer. The circuit protection products of the future will offer greater features to protect increasingly complex electrical systems, meet the booming demand for on-board electronics and make the Circuit Protection category a continuously stronger part of the Automotive Aftermarket.

Here is a glimpse of Littelfuse's vision of circuit protection for tomorrow . . .

- Fuse count per vehicle to grow each year.
- Increased need for higher amp protection with MCASE and bolt-on devices like MEGA and MIDI fuses.
- Greater need for a broader range of fuse blocks and fuseholders, testers and pullers, fuse kits and assortments and creative merchandising systems.
- Greater need for more technical training materials, point of sale education support and more reliable application data.
- More compact fuses such as MINI, Micro and electronic surface mount fuses.
- Smart circuit protection — the vehicle will tell you what fuse needs to be replaced and its location.
- Special circuit protection products designed for electric and alternative fuel vehicles.
- Modular electrical systems that require modular fuseblocks in locations throughout the vehicle like the quarter panels, fender wells, door panels, etc.

A History of Littelfuse Automotive Firsts

For more than 75 years, Littelfuse has been the Circuit Protection manufacturer to achieve the automotive industry's most significant accomplishments, beginning in 1927 by inventing electronic circuit protection technology with the first small fast-acting protective fuse.

- 1930** – Automotive fuse introduced by Littelfuse.
- 1950** – Littelfuse develops design of industry's first centralized under dash fuseblock.
- 1976** – ATO® blade fuse revolutionizes automotive circuit protection.
- 1978** – Introduced Value Pak Emergency Fuse Kits offering 8–10 fuses with fuse puller.
- 1983** – Littelfuse begins battle with fuse counterfeiters and helps establish a Federal exclusion order prohibiting the importation of look-alike fuses into the United States.
- 1986** – U.S. Auto Industry selects the MAXI fuse to replace the commonly used high amp fusible wire and fusible links in under-the-hood electrical harnesses.
- 1987** – Littelfuse expands high amp coverage with reliable new line of PAL Auto Links for complete Japanese coverage.
- 1988** – Littelfuse develops the ATO® style diode assembly to control surge voltages caused by electromagnetic components.
- 1991** – High amp protection MEGA® fuse introduced as the first OEM and Aftermarket fuse rated up to 250 amps.
- 1993** – The MINI® diode is introduced to perform omni-directional blocking of current flow in automotive applications.
- 1993** – The ATO® resistor assembly is released to adjust and suppress excess voltage in sensitive automotive circuits.
- 1993** – Littelfuse becomes the first circuit protection manufacturer to receive ISO 9000 certification.
- 1994** – Littelfuse partners with Chrysler and BMW to design and patent the MIDI® fuse for specific applications.
- 1994** – MIDI® compact bolt-down automotive fuse introduced for European high amp applications.
- 1995** – The MINI® resistor joins the Littelfuse line of Automotive products.
- 1995** – Littelfuse introduced Circuit Alert – a blown fuse indicating device for ATO® fuses.
- 1995** – Add-A-Circuit fuseholder introduced as new way to add an additional circuit without cutting or splicing.
- 1996** – Littelfuse became first circuit protection manufacturer to receive QS 9000 certification.
- 1997** – JCASE introduced as compact version of MAXI Fuse for domestic autos beginning in 1998.
- 1997** – Littelfuse celebrates 70 years of quality circuit protection innovation.
- 1999** – Littelfuse acquires Harris Suppression and its overvoltage technology to compliment it's overcurrent product lines.
- 2001** – The patented CablePro® is introduced to replace fuse links in high-current, battery direct applications such as starters or alternators.
- 2002** – Littelfuse acquires Semitron Industries, LTD and becomes the only company in the world that can supply all the major circuit protection technologies.
- 2004** – Purchases majority ownership of Heinrich Industries AG, including WICKMANN, Pudenz and Efen, to expand European market for automotive and electronic circuit protection
- 2006** – Acquires SMARTGLOW® fuse, the first indicated automotive blade type fuse.
- 2010** – Opens the High Power Lab, located in Champaign, Illinois, providing customers with product design and specialized testing services.
- 2010** – Acquires the Cole Hersee Company, a supplier of switches and control devices to the commercial vehicle market.
- 2012** – Acquires ACCEL AB, located in Vänersborg, Sweden, a leading supplier and manufacturer of advanced electromechanical products and components, primarily for the automotive industry.
- 2012** – Acquires Terra Power Systems, LLC, a Bellingham, WA – based manufacturer of electrical distribution products for heavy-duty vehicle applications.
- 2013** – Acquires Hamlin, Inc., of Lake Mills, WI. - a leader in sensor technology providing product for teh automotive, electronics, and industrial markets.
- 2015** – Acquires Sigmar, an Ozegna, Italy based manufacturer of water-in-fuel and AdBlue®/urea sensors and PTC heaters, solenoid valves and rotating oil filters for automotive and commercial vehicle applications.
- 2016** – Acquires TE Connectivity's Circuit Protection Division (CPD) business, headquartered in Menlo Park, CA with manufacturing facilities in Shanghai and Kunshan, China and Tsukuba, Japan. It is a leader in polymer-based resettable circuit protection devices in the automotive, battery, industrial, communications and mobile computing markets.
- 2016** – Acquires Member's Corporation of Legnano, Italy, expanding our commercial vehicle presence and offering in Europe.

THE INDUSTRY LEADER IN CIRCUIT PROTECTION SINCE 1927

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	Its miniature design meets the need for more circuits to be protected while utilizing less space, and its ability to cope with high temperatures in adverse environments makes the MINI [®] Fuse the recommended choice for protection.	
3	LOW PROFILE MINI[®] FUSES	10
	The Low Profile MINI [®] fuse has similar performance characteristics as the standard MINI [®] fuse.	
4	MICRO2[™] / MICRO3[™] FUSES	11-12
	Its sub-miniature design meets the need for more circuits to be protected while utilizing less space and its ability to cope with high temperatures in adverse environments makes the MICRO2 [™] and MICRO3 [™] Fuse the recommended choice for protection.	
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	The MAXI fuse uses "Diffusion Pill Technology" to provide predictable time delay characteristic and low heat dissipation.	
6	JCASE[®] FUSES	15
	The JCASE [®] is a cartridge style fuse with female terminal design. JCASE [®] provides both increased time delay and low voltage drop to protect high current circuits. JCASE [®] has the ability to handle inrush currents. The JCASE [®] was designed and patented by Littelfuse.	
7	LOW PROFILE JCASE[®] FUSES	16
	The Low Profile JCASE [®] fuse has similar performance characteristics as the standard JCASE [®] fuse. The lower overall height reduction allows for more space and weight savings and also allows for a shorter male blade terminal, saving additional weight and material savings in fuse box designs.	

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It has a miniaturized footprint for optimal usage of space. It is a time delayed fuse and can handle inrush currents. MCASE™ is designed and patented by Littelfuse.	
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Commonly found on many Japanese and Domestic built vehicles in current ratings up to 140 amperes. Available with female connector, male connector, bent connector and locking female connector. Color coded to indicate amp rating.	
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<i>Type II – Modified Reset</i> Non-cycling, remains in open position while there is power to the circuit. Resets when ignition is turned off. Type II circuit breakers are typically used in applications where fuse replacement is objectionable, such as power window, seat and sunroof circuits.	
<i>Type III – Manual Reset</i> Manually resettable circuit breakers remain in the open position until a button, lever or other external reset device is manually depressed. Type III circuit breakers are typically used in applications where a manual reset is desired for safe diagnosis of a circuit fault.	
12	MEGA® BOLT ON FUSES 24
The MEGA® Fuse is designed for high current circuit protection up to 500A with “Diffusion Pill Technology.” The MEGA® Fuse also provides time delay characteristics. Designed and patented by Littelfuse, the MEGA® Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.	
13	MIDI® BOLT ON FUSES 25
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”. The MIDI® was designed and patented by Littelfuse.	

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Littelfuse products are designed for specific applications and should not be used for any purpose (including, without limitation, automotive applications) not expressly set forth in applicable Littelfuse documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse product documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse product documentation.

FUSEOLOGY

Understanding how circuit protection works is a key to diagnosing automotive electrical problems. When a fuse blows, that means the fuse is doing its job — sending you a message that something needs to be fixed.

WHAT IS THE PURPOSE OF A FUSE?

A fuse is a safety valve. It is designed to stop current from exceeding the rating of the wires or components. Without fuses, excessive current could cause damage to electrical systems, and even result in fires.

In general, a fuse has a simple construction. The key component is the “element” — a short piece of metal wire or strap.

WHAT CAUSES A FUSE TO BLOW?

The element is designed to melt at a specific temperature, to protect wires and equipment from overcurrents. An overcurrent is any current that exceeds the amperage rating or wiring capacity of equipment or devices under normal conditions of use.



If an overcurrent causes the current in a circuit to rise above a specific level — often the circuit’s rating — the heat produced will melt the fuse’s element, causing the fuse to “blow.” This opens the circuit and immediately stops the flow of current. Fuses are designed to blow at temperatures far below those that would cause damage or hazards.

Once a fuse is blown, it can be replaced to allow the current to flow again. But **simply replacing a fuse may not be the solution to the problem.** In fact, there is a chance the fuse will just blow again, because the fuse is signaling a problem in the system. Understanding the factors that cause a fuse to blow will help you diagnose automotive electrical problems.

There are two types of overcurrents that can cause a fuse to blow: overloads and short circuits.

Overload

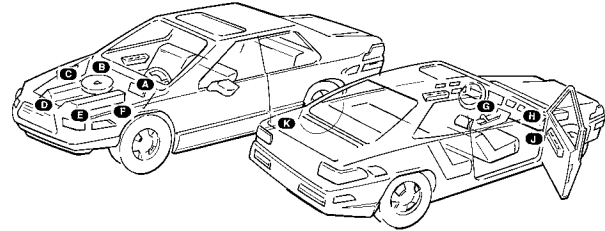
What: The current exceeds the amperage at which the wires or equipment are rated.

Why: Too many devices are connected to one circuit, or a device malfunctions and draws higher than its normal operating current. Sustained overloads cause overheating of circuit components and the fuse blows.

Short Circuit

What: The current is out of its normal path.

Why: A malfunction creates an unintended path for electricity to flow from the battery or alternator to ground. This can be caused by the touching of any positive wire to a ground wire, e.g. due to frayed wire insulation, or tools laid across the positive and ground wires of a circuit. The uncontrolled current to ground then surpasses the normal resistance of the wire contained in the circuit, forcing higher and higher current to the point of the generating heat which blows the fuse.



Bold letter after fuse part number indicates fuse block location.

- | | |
|--------------------------|--|
| A Left fire wall | G Behind/under dash left |
| B Right fire wall | H Behind/in glove box |
| C Right fender | J Behind/under dash right |
| D Right front | K Rear compartment |
| E Left front | IL In-line with device protected |
| F Left fender | (locations may vary from car to car, see your dealer.) |

FINDING A FUSE

To be able to address fuse issues, you first must be able to locate the appropriate fuse within the vehicle. In today’s vehicles, each individual wire is protected by a circuit protection device.

Fuses are contained in fuse blocks located at various points throughout the vehicle. The diagram above illustrates typical fuse block locations. For further help finding a fuse, use the *Littelfuse Automotive Fuse Guide*, which lists a letter corresponding to the fuse location for every fuse application listed.

SELECTING THE RIGHT FUSE

Once you have found the fuse that has blown, and solved the problem in the vehicle, you must replace the blown fuse with an appropriate device.

When selecting the right fuse for replacement, you should consider the following:

Physical Type

The replacement fuse must be of the same physical type as the blown fuse being replaced. It must be of the same style and have the same dimensions so that it can fit properly in the fuse block or fuseholder. Check your owner’s manual to determine the appropriate fuse type.

Installation Tip: Littelfuse holds patents for the designs on most automotive fuses. It is important to remember that the physical type of the fuse is important, but it is not the only factor affecting the fuse’s function. Although some fuses appear to be the same type and dimension as Littelfuse fuses, they do not necessarily have the same performance characteristics.

Look for the Littelfuse OEM Label

To guarantee the same level of quality in circuit protection that the major automotive manufacturers of North America require for their original equipment fuses, look for the OEM seal on Littelfuse aftermarket products. Only Littelfuse products can guarantee this level of quality.



Beware of Counterfeit Fuses

At first glance, it's hard to tell the difference between a genuine Littelfuse blade fuse and a counterfeit. The counterfeit may have the same physical dimensions, but using it can be dangerous because it fails to perform to the stringent performance and safety specifications developed by Littelfuse and the OEMs.

In many cases, the elements in counterfeit fuses do not correspond with the amperage specification stamped on the fuse. This will prevent the elements from opening at the rated or correct amperage, which could result in an auto fire causing serious damage to the vehicle, its contents and its passengers.

Responding to this growing problem, the United States International Trade Commission and then President Ronald Reagan issued and approved an exclusion order in 1983 prohibiting the importation of the look-alike blade fuses into the United States. This order was initiated because many of these fuses were proven to be totally unsafe. The photos shown here indicate why counterfeit fuses are potentially unsafe and present a fire risk.



To guarantee quality and safety, look for the Littelfuse name on fuses and fuse packaging.

Current Rating — Amperage

The current rating, marked on every fuse, is the maximum current in amperes that the fuse can continuously carry under specified conditions.



Tip: When selecting a fuse, make sure the current rating of the fuse is the same amperage as the circuit. You can obtain the current rating of a circuit by looking in the owner's manual of the vehicle; checking to see if it is written on the fuse block; or consulting the Littelfuse Fuse Guide.

Overfusing and Underfusing

Overfusing is when the fuse has a current rating higher than the rating of the circuit. In this case, the fuse will not be able to protect the circuit properly because the circuit could reach overcurrent levels, causing damage and safety hazards, before the fuse would blow.

Underfusing is when the fuse is rated at a current too far below the rating of the circuit. In this case the fuse will blow, even though the circuit is functioning normally without an overcurrent. Underfusing almost guarantees that a fuse will blow repeatedly. This is referred to as a nuisance blow.

Voltage Rating

The voltage rating, marked on every fuse, indicates the maximum voltage at which the fuse is designed to operate safely if an overcurrent occurs.

Tip: The fuse voltage rating must equal to or exceed this circuit voltage where the fuse is installed. This is not a problem in fuse selection because automotive fuse applications are typically around 12 volts, while the voltage rating of the majority of Littelfuse automotive fuses — including ATO Fuse, MINI Fuse, MAXI Fuse and MEGA Fuse — is 32 volts.

ADDING A CIRCUIT



Always use a circuit protection device with a fuseholder or fuse block whenever adding additional circuits to ensure optimal safety. The fastest, easiest option for installers who need to add a circuit for applications such as electronic components, is Littelfuse's Add-A-Circuit Fuseholder. Add-A-Circuit, available in ATO® and MINI® blade fuse versions, is designed to facilitate installation of fuses for accessories of 10 amps or less. The Add-A-Circuit adapts the fuse block to the installer's needs, quickly turning one slot in the fuse block into two, providing a safe, economical alternative to splicing or fusetaps.

Caution: Fusetaps are not a recommended alternative for adding circuits because they can overstress the terminals in the fuse block. This situation can create a loose fitting fuse, which in turn produces excessive heat, which can cause nuisance blows, even melting of the fuse and fuse block and possibly an expensive repair in the future. When a fusetap is used, in many cases there is no fuse protecting the new circuit, a condition which can also present a hazard.

Another alternative to adding a circuit is the Littelfuse Battery Power Feed. This device attaches directly to the battery terminal, allowing the addition of up to three circuits. Then use an in-line fuseholder to protect the circuit properly.



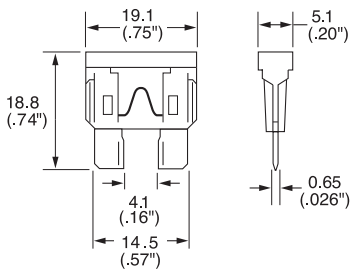


ATO® (Autofuse®) Blade Fuse

Developed by Littelfuse for the automotive industry, the ATO® fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. Readily identifiable and easily replaced, this fuse can be specified for a variety of low voltage electronic applications. It is currently found on most cars, trucks, buses and off the road vehicles worldwide. Features Littelfuse designed industry standard color coding to indicate amp rating.

Voltage Rating Characteristics: 32V AC/DC Fast-Acting
Approvals: UL listed, CSA certified 3-30A, SAE J1284.

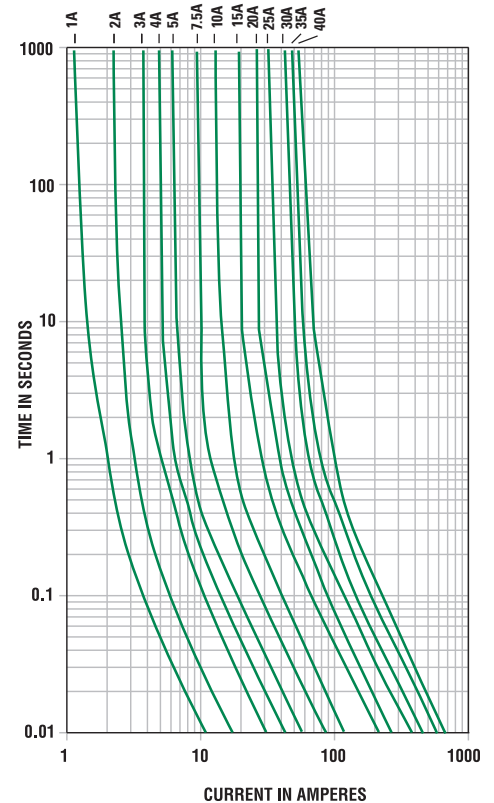
DIMENSIONS ATO®



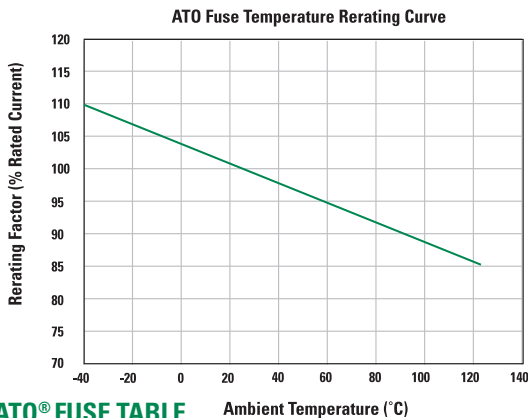
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time	Opening Time Min / Max (s)
100	35-40	360,000 s / -
110	1-30	360,000 s / -
135	1-2 3-40	350ms / 600 s 0.750 s / 600 s
200	1-2 3-40	100 ms / 5.0 s 0.150 s / 5.0 s
350	1-2 3-40	20 ms / 500 ms 80 ms / 500 ms
600	1-30 35-40	- / 100 ms - / 150 ms

TIME-CURRENT CHARACTERISTIC CURVES



TEMPERATURE DERATING CURVE



ATO® FUSE TABLE

Ambient Temperature (°C)

Plus Pack

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED		CARDED
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #
Black	1A	0ATO001.V	ATO1	0ATO001.VP	ATO1BP	0ATO001.ZXPRO
Gray	2A	0ATO002.V	ATO2	0ATO002.VP	ATO2BP	0ATO002.ZXPRO
Violet	3A	0ATO003.V	ATO3	0ATO003.VP	ATO3BP	0ATO003.ZXPRO
Pink	4A	0ATO004.V	ATO4	0ATO004.VP	ATO4BP	0ATO004.ZXPRO
Tan	5A	0ATO005.V	ATO5	0ATO005.VP	ATO5BP	0ATO005.ZXPRO
Brown	7.5A	0ATO007.5V	ATO7.5	0ATO007.5VP	ATO7.5BP	0ATO007.5ZXPRO
Red	10A	0ATO010.V	ATO10	0ATO010.VP	ATO10BP	0ATO010.ZXPRO
Blue	15A	0ATO015.V	ATO15	0ATO015.VP	ATO15BP	0ATO015.ZXPRO
Yellow	20A	0ATO020.V	ATO20	0ATO020.VP	ATO20BP	0ATO020.ZXPRO
Clear	25A	0ATO025.V	ATO25	0ATO025.VP	ATO25BP	0ATO025.ZXPRO
Green	30A	0ATO030.V	ATO30	0ATO030.VP	ATO30BP	0ATO030.ZXPRO
Orange	40A	0ATO040.V	ATO40	0ATO040.VP	ATO40BP	---



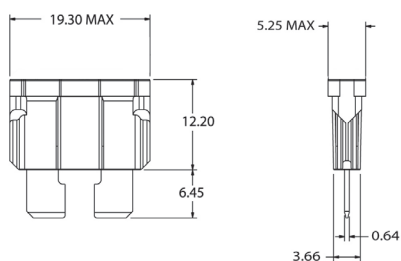


ATO[®] Smart Glow Blade Fuse

Smart Glow fuses are innovative automotive style fuses that feature an indicator light that glows when the fuse is blown, saving time to troubleshoot an open circuit.

- Interrupting Rating: 1000A @32VDC
- Voltage Rating: 32 VDC
- Operating Temperature Range: -40°C to +125°C
- Terminals: Tin plated Zinc alloy

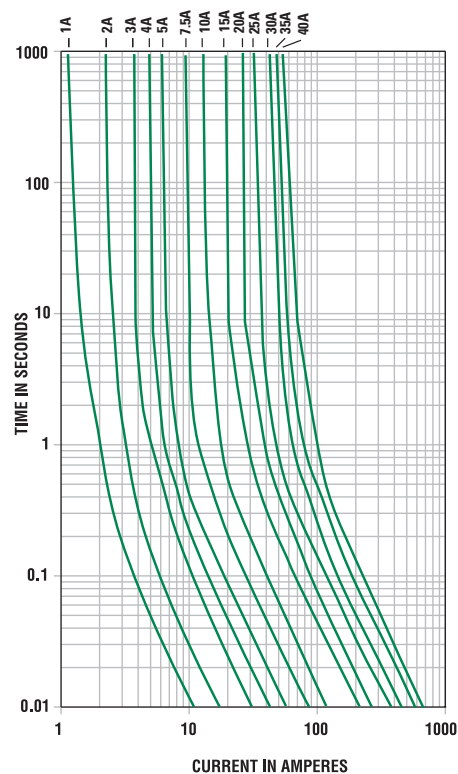
DIMENSIONS



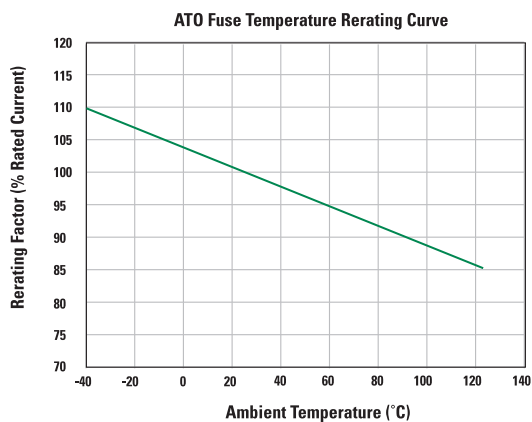
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time	Opening Time Min / Max (s)
100	35-40	360,000 s / -
110	1-30	360,000 s / -
135	1-2	350ms / 600 s
	3-40	0.750 s / 600 s
200	1-2	100 ms / 5.0 s
	3-40	0.150 s / 5.0 s
350	1-2	20 ms / 500 ms
	3-40	80 ms / 500 ms
600	1-30	- / 100 ms
	35-40	- / 150 ms

TIME-CURRENT CHARACTERISTIC CURVES



TEMPERATURE RERATING CURVE



ATO[®] SMART GLOW FUSE TABLE

COLOR CODE	CURRENT RATING (A)	CARDED	
		MATERIAL #	CATALOG #
Black	1A	---	---
Gray	2A	---	---
Violet	3A	OAT0003.VPGLO	10-0003
Pink	4A	---	---
Tan	5A	OAT0005.VPGLO	10-1000
Brown	7.5A	OAT007.5VPGLO	10-0007
Red	10A	OAT0010.VPGLO	10-1001
Blue	15A	OAT0015.VPGLO	10-1002
Yellow	20A	OAT0020.VPGLO	10-1003
Clear	25A	OAT0025.VPGLO	10-1004
Green	30A	OAT0030.VPGLO	10-1005
Orange	40A	---	---



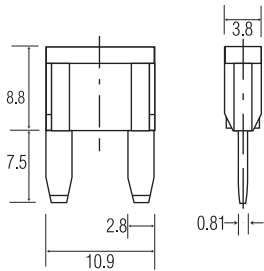


MINI[®] Blade Fuse

The MINI[®] Fuse is quickly becoming the new standard for vehicle circuit protection. Its miniature design meets the need for more circuits to be protected while utilizing less space, and its ability to cope with high temperatures in adverse environments makes the MINI[®] Fuse the recommended choice for protection.

Voltage Rating Characteristics: 32V AC/DC Fast-Acting
Approvals: UL listed, SAE J2077.

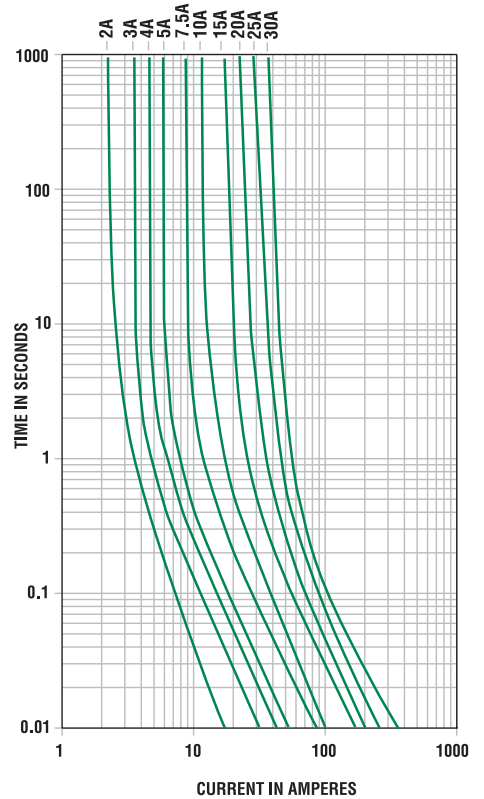
DIMENSIONS MINI[®]



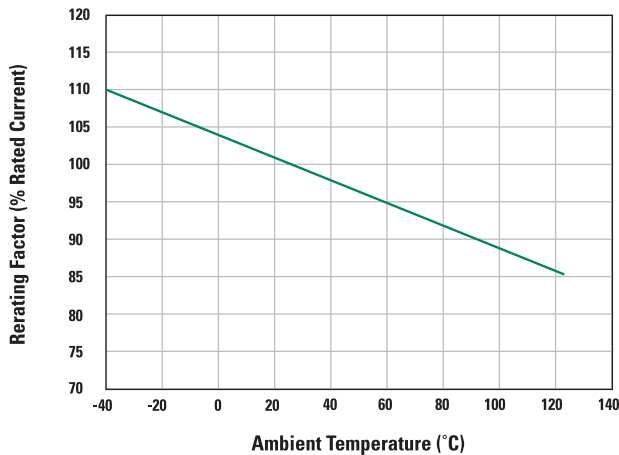
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
110	360,000 s / -
135	0.75 s / 600 s
200	0.15 s / 5 s
350	0.080 s / 0.250 s
600	0.030 s / 0.100 s

TIME-CURRENT CHARACTERISTIC CURVES



TEMPERATURE RERATING CURVE



MINI[®] FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED		CARDED
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #
Gray	2A	0MIN002.V	MIN2	0MIN002.VP	MIN2BP	0MIN002.ZXPRO
Violet	3A	0MIN003.V	MIN3	0MIN003.VP	MIN3BP	0MIN003.ZXPRO
Pink	4A	0MIN004.V	MIN4	0MIN004.VP	MIN4BP	0MIN004.ZXPRO
Tan	5A	0MIN005.V	MIN5	0MIN005.VP	MIN5BP	0MIN005.ZXPRO
Brown	7.5A	0MIN007.5V	MIN7.5	0MIN007.5VP	MIN7.5BP	0MIN007.5ZXPRO
Red	10A	0MIN010.V	MIN10	0MIN010.VP	MIN10BP	0MIN010.ZXPRO
Blue	15A	0MIN015.V	MIN15	0MIN015.VP	MIN15BP	0MIN015.ZXPRO
Yellow	20A	0MIN020.V	MIN20	0MIN020.VP	MIN20BP	0MIN020.ZXPRO
Clear	25A	0MIN025.V	MIN25	0MIN025.VP	MIN25BP	0MIN025.ZXPRO
Green	30A	0MIN030.V	MIN30	0MIN030.VP	MIN30BP	0MIN030.ZXPRO

Plus Pack



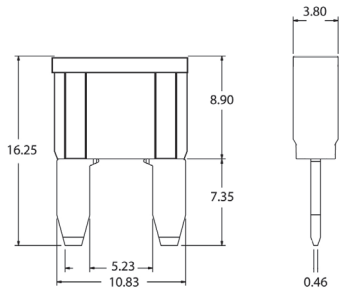
MINI[®] Smart Glow Blade Fuse



Smart Glow fuses are innovative automotive style fuses that feature an indicator light that glows when the fuse is blown, saving time to troubleshoot an open circuit.

- Interrupting Rating: 1000A @32VDC
- Voltage Rating: 32 VDC
- Operating Temperature Range: -40°C to +125°C
- Terminals: Tin plated Zinc alloy

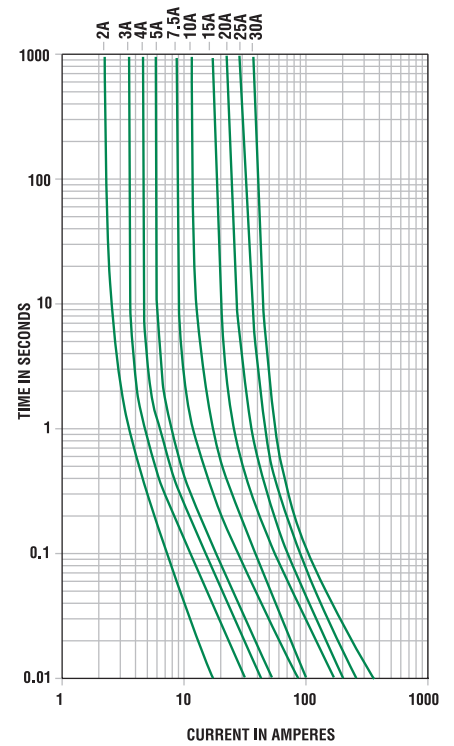
DIMENSIONS



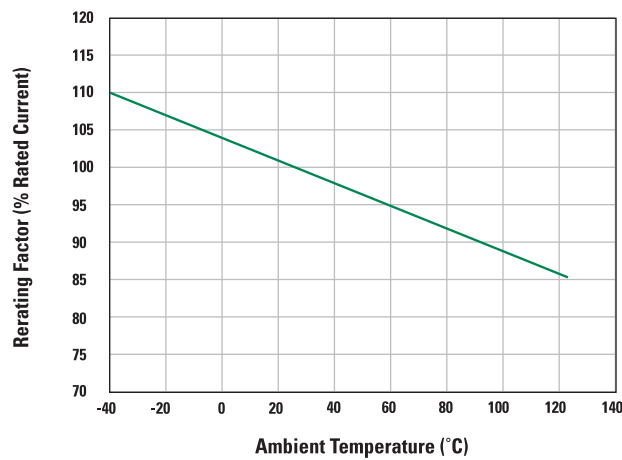
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
110	360,000 s / -
135	0.75 s / 600 s
200	0.15 s / 5 s
350	0.080 s / 0.250 s
600	0.030 s / 0.100 s

TIME-CURRENT CHARACTERISTIC CURVES



TEMPERATURE RERATING CURVE



MINI[®] FUSE TABLE

COLOR CODE	CURRENT RATING (A)	CARDED	
		MATERIAL #	CATALOG #
Gray	2A	---	---
Violet	3A	OMIN003.VPGLO	11-0003
Pink	4A	---	---
Tan	5A	OMIN005.VPGLO	11-1000
Brown	7.5A	OMIN07.5VPGLO	11-0007
Red	10A	OMIN010.VPGLO	11-1001
Blue	15A	OMIN015.VPGLO	11-1002
Yellow	20A	OMIN020.VPGLO	11-1003
Clear	25A	OMIN025.VPGLO	11-1004
Green	30A	OMIN030.VPGLO	11-1005



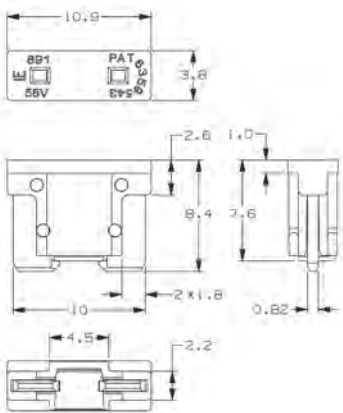


Low Profile MINI[®] Blade Fuse

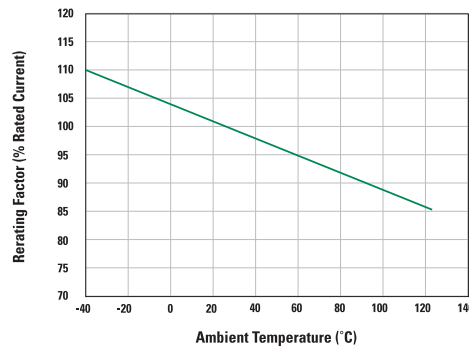
The Low Profile MINI[®] fuse is designed to mate with tuning-fork terminals, which provides additional weight and material savings in fuse box designs by eliminating the need for female box terminals.

- Voltage Rating: 58 VDC
- Interrupting Rating: 1000A @ 58 VDC
- Operating Temperature Range: -40°C to +125°C
- Terminals: either Ag or Sn plated zinc
- Housing Materials: Nylon composite

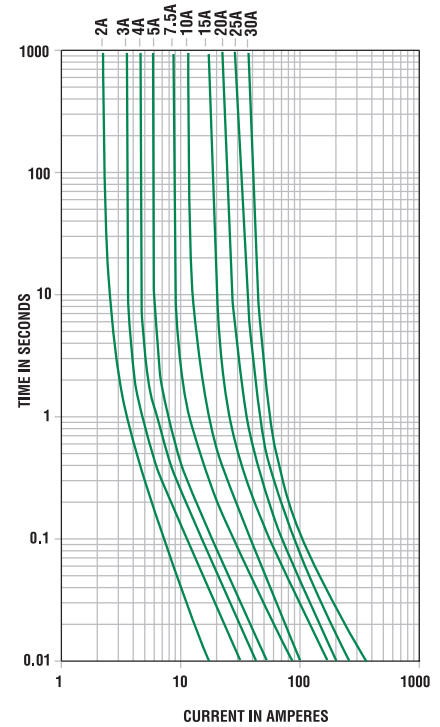
DIMENSIONS



TEMPERATURE DERATING CURVE



TIME-CURRENT CHARACTERISTIC CURVES



TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
110	360,000 s / -
135	0.750 s / 120 s
200	0.150 s / 5 s
350	0.080 s / 0.250 s
600	0.030 s / 0.100 s



LOW PROFILE MINI[®] FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED		CARDED
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #
Gray	2A	LMIN002.V	LMIN2	---	---	---
Tan	5A	LMIN005.V	LMIN5	LMIN005.VP	LMIN005BP	LMIN005.ZXPROA
Brown	7.5A	LMIN07.5V	LMIN7.5	---	---	---
Red	10A	LMIN010.V	LMIN10	LMIN010.VP	LMIN010BP	LMIN010.ZXPROA
Blue	15A	LMIN015.V	LMIN15	LMIN015.VP	LMIN015BP	LMIN015.ZXPROA
Yellow	20A	LMIN020.V	LMIN20	LMIN020.VP	LMIN020BP	LMIN020.ZXPROA
Clear	25A	LMIN025.V	LMIN25	LMIN025.VP	LMIN025BP	LMIN025.ZXPROA
Green	30A	LMIN030.V	LMIN30	LMIN030.VP	LMIN030BP	LMIN030.ZXPROA

Plus Pack





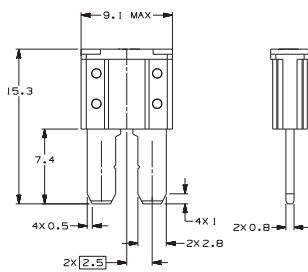
MICRO2™ Blade Fuse

The MICRO2™ Fuse is the new standard for vehicle circuit protection. Its sub-miniature design meets the need for more circuits to be protected while utilizing less space and its ability to cope with high temperatures in adverse environments makes the MICRO2™ Fuse the recommended choice for protection.

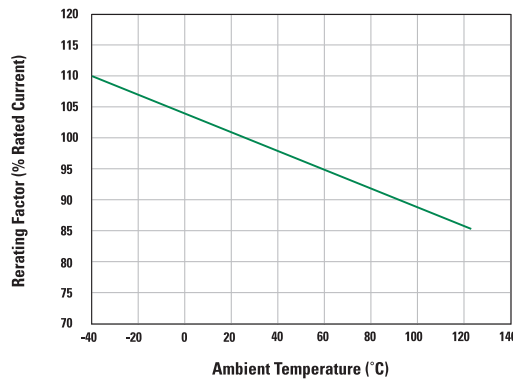
- Voltage Rating: 32 VDC
- Interrupting Ratings: 1000A @ 32 VDC
- Operating Temperature Range: -40°C to +125°C

3
4

DIMENSIONS



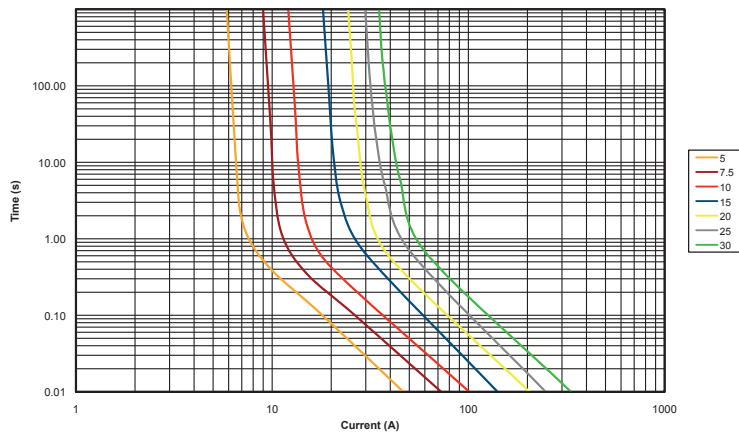
TEMPERATURE DERATING CURVE



TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
110	100 h / -
135	0.75 s / 120 s
160	0.30 s / 50 s
200	0.150 s / 5 s
350	0.04 s / 0.50 s
600	0.02 s / 0.100 s

TIME-CURRENT CHARACTERISTIC CURVES



MICRO2™ FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BULK 4000 PC	BULK 500 PC	BULK 50 PC	BOXED 5 PC	CARDED 5 PC
		MATERIAL #	MATERIAL #	MATERIAL #	MATERIAL #	MATERIAL #
Tan	5A	0327005.ZXS	0327005.UXS	0327005.LXS	MIC2005.V	MIC2005.VP
Brown	7.5A	032707.5ZXS	032707.5UXS	032707.5LXS	MIC207.5V	MIC207.5VP
Red	10A	0327010.ZXS	0327010.UXS	0327010.LXS	MIC2010.V	MIC2010.VP
Blue	15A	0327015.ZXS	0327015.UXS	0327015.LXS	MIC2015.V	MIC2015.VP
Yellow	20A	0327020.ZXS	0327020.UXS	0327020.LXS	MIC2020.V	MIC2020.VP
Clear	25A	0327025.ZXS	0327025.UXS	0327025.LXS	MIC2025.V	MIC2025.VP
Green	30A	0327030.ZXS	0327030.UXS	0327030.LXS	MIC2030.V	MIC2030.VP



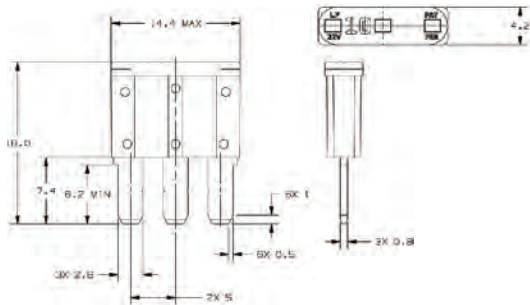
MICRO3™ Blade Fuse



The MICRO3™ Fuse is the new standard for vehicle circuit protection. The MICRO3™ Fuse has 3 terminals and 2 fuse elements with a common center terminal. Its sub-miniature design meets the need for more circuits to be protected while utilizing less space and its ability to cope with high temperatures in adverse environments makes the MICRO3™ Fuse the recommended choice for protection.

Voltage Rating: 32 VDC
Interrupting Ratings: 1000A @ 32 VDC
Operating Temperature Range: -40°C to +125°C

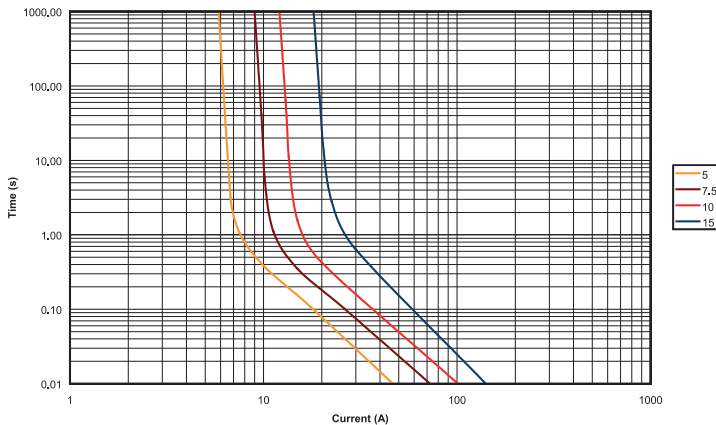
DIMENSIONS



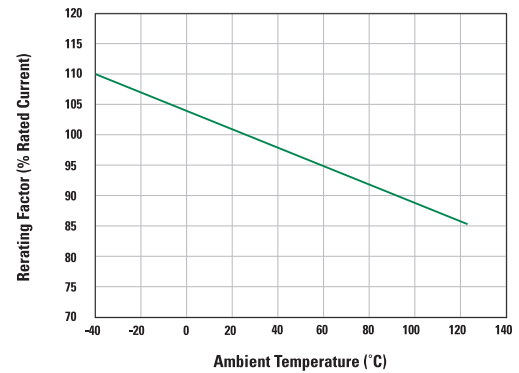
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
110	100 h / -
135	0.75 s / 120 s
160	0.30 s / 50 s
200	0.150 s / 5 s
350	0.04 s / 0.50 s
600	0.02 s / 0.100 s

TIME-CURRENT CHARACTERISTIC CURVES



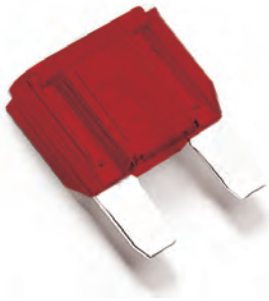
TEMPERATURE DERATING CURVE



MICRO3™ FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BULK 2000 PC	BULK 50 PC	BOXED 5 PC	CARDED 5 PC
		MATERIAL #	MATERIAL #	MATERIAL #	MATERIAL #
Tan	5A	0337005.PXS	0337005.LXS	MIC3005.V	MIC3005.VP
Brown	7.5A	033707.5PXS	033707.5LXS	MIC307.5V	MIC307.5VP
Red	10A	0337010.PXS	0337010.LXS	MIC3010.V	MIC3010.VP
Blue	15A	0337015.PXS	0337015.LXS	MIC3015.V	MIC3015.VP





MAXI Blade Fuse

The MAXI fuse uses “Diffusion Pill Technology” to provide predictable time delay characteristic and low heat dissipation. MAXI Fuses are primarily used for under hood applications and are produced with a high temperature polymer and silver plated blades. They replace the commonly used fusible wire or fusible link to protect a high current segment or system of the wiring harness. Features Littelfuse designed industry standard color coding to indicate amp rating.

- Voltage Rating: 32 VDC
- Interrupting Ratings: 1000A @ 32 VDC
- Operating Temperature Range: -40°C to +125°C
- Terminals: Ag plated

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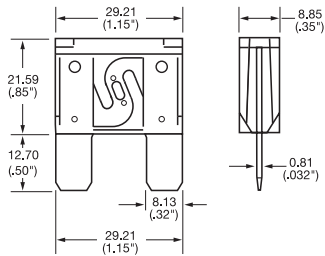


MAXI Smart Glow Blade Fuse

Smart Glow fuses are innovative automotive style fuses that feature an indicator light that glows when the fuse is blown, saving time to troubleshoot an open circuit.

- Voltage Rating: 32 VDC
- Interrupting Ratings: 1000A @ 32 VDC
- Operating Temperature Range: -40°C to +125°C
- Terminals: Ag plated

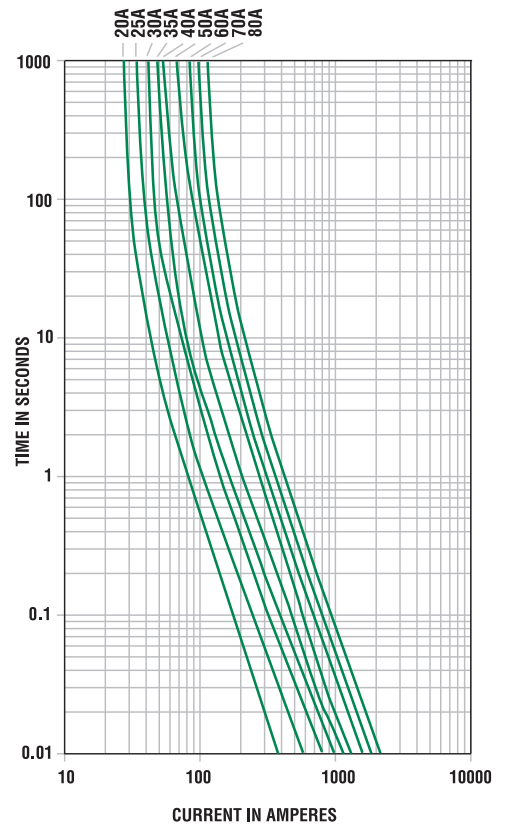
DIMENSIONS



TIME-CURRENT CHARACTERISTICS

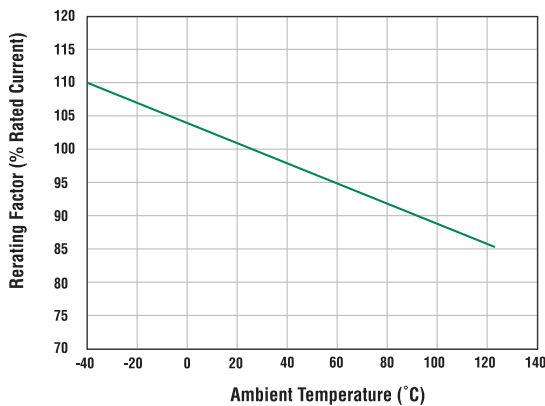
% of Rating	Opening Time Min / Max (s)
110	360,000 s / -
135	60 s / 1,800 s
200	2 s / 60 s
350	0.20 s / 7 s
600	0.040 s / 1 s

TIME-CURRENT CHARACTERISTIC CURVES



TEMPERATURE RERATING CURVE

MAXI Fuse Temperature Rerating Curve



MAXI Blade Fuse



**SMART
GLOW** Fuse

MAXI FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Yellow	20A	0MAX020.X	MAX20	0MAX020.XP	MAX20BP	0MAX020.XPGLO	30-1020
Green	30A	0MAX030.X	MAX30	0MAX030.XP	MAX30BP	0MAX030.XPGLO	30-1030
Orange	40A	0MAX040.X	MAX40	0MAX040.XP	MAX40BP	0MAX040.XPGLO	30-1040
Red	50A	0MAX050.X	MAX50	0MAX050.XP	MAX50BP	0MAX050.XPGLO	30-1050
Blue	60A	0MAX060.X	MAX60	0MAX060.XP	MAX60BP	0MAX060.XPGLO	30-1060
Tan	70A	0MAX070.X	MAX70	---	---	0MAX070.XPGLO	30-1070
Clear	80A	0MAX080.X	MAX80	0MAX080.XP	MAX80BP	0MAX080.XPGLO	30-1080
Purple	100A	---	---	---	---	0MAX100.XPGLO	30-1100



JCASE[®] High Amp Fuse

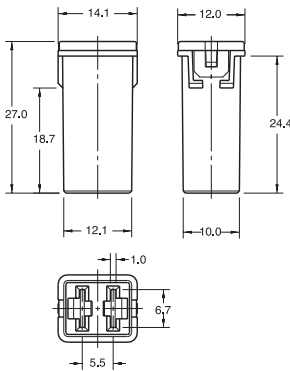


The JCASE[®] is a cartridge style fuse with female terminal design. JCASE[®] provides both increased time delay and low voltage drop to protect high current circuits. JCASE[®] has the ability to handle inrush currents. Littelfuse patented high current fuse introduced in 1997 designed to replace the MAXI fuse and cartridge style fuses. Currently OEM on many new domestic and Japanese models. Smaller space saving footprint is being designed in by many OEM's. Patented technology provides both increased time delay and low voltage drop. Features ANSI standard OCR-A font for visual inspection systems, double spring-beam box terminal and unique secondary locking feature holds terminal firmly in place.

Voltage Rating Characteristics: 32V AC/DC Slo-Blo[®]
 Interrupting Ratings: 1000A @ 32 VDC
 Operating Temperature Range: -40°C to +125°C
 Insertion Force: 53N max. (12lb)
 Extraction Force: 9N min. (2lb)

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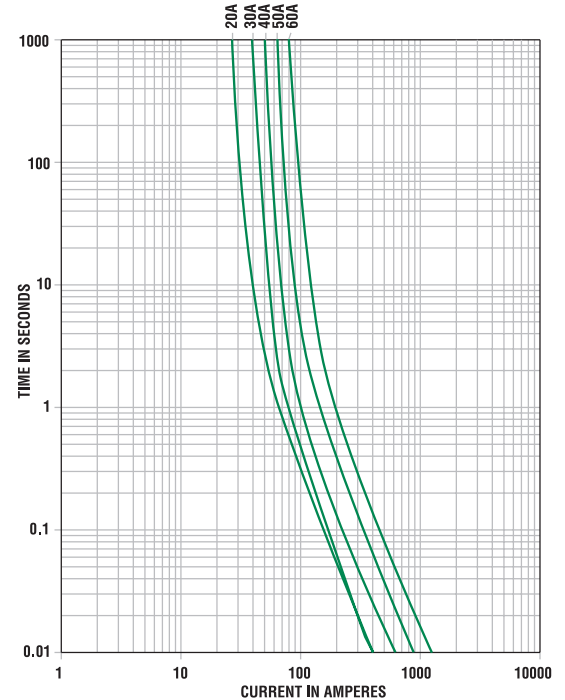
DIMENSIONS



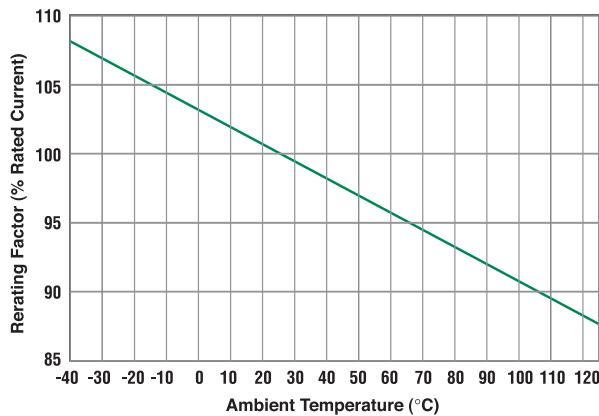
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
100	360,000 s / -
135	60 s / 1800 s
200	4 s / 60 s
350	0.200 s / 7 s
600	0.040 s / 1 s

TIME-CURRENT CHARACTERISTIC CURVES

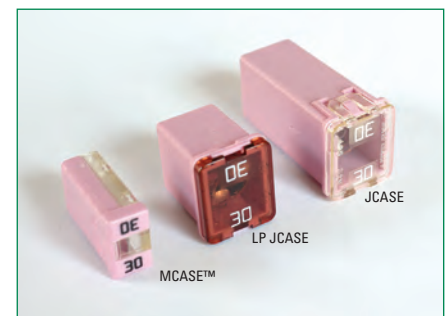


TEMPERATURE RERATING CURVE



JCASE[®] FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Blue	20A	JCAS020.X	JCAS20	JCAS020.XP	JCAS20BP
White	25A	JCAS025.X	JCAS25	JCAS025.XPA	JCAS25BP
Pink	30A	JCAS030.X	JCAS30	JCAS030.XP	JCAS30BP
Green	40A	JCAS040.X	JCAS40	JCAS040.XP	JCAS40BP
Red	50A	JCAS050.X	JCAS50	JCAS050.XP	JCAS50BP
Yellow	60A	JCAS060.X	JCAS60	JCAS060.XP	JCAS60BP



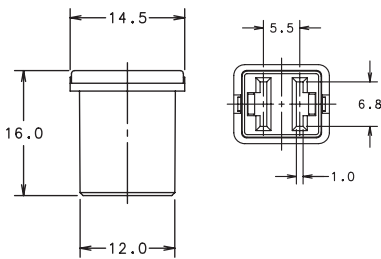
Low Profile JCASE® Fuse



The Low Profile JCASE® fuse has similar performance characteristics as the standard JCASE® fuse. The lower overall height reduction allows for more space and weight savings and also allows for a shorter male blade terminal, saving additional weight and material in fuse box designs. Smaller space saving footprint is being designed in by many OEM's. Patented technology provides both increased time delay and low voltage drop. Features ANSI standard OCR-A font for visual inspection systems, double spring-beam box terminal and unique secondary locking feature holds terminal firmly in place.

- Voltage Rating: 58 VDC
- Interrupting Rating: 1000A @ 58 VDC
- Operating Temperature Range: -40°C to + 125°C
- Insertion Force: 53N Max. (12 lb.)
- Extraction Force: 9N Min (2 lb.)

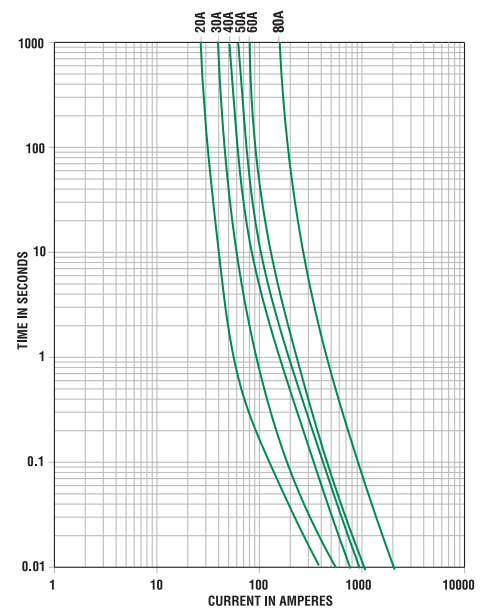
DIMENSIONS



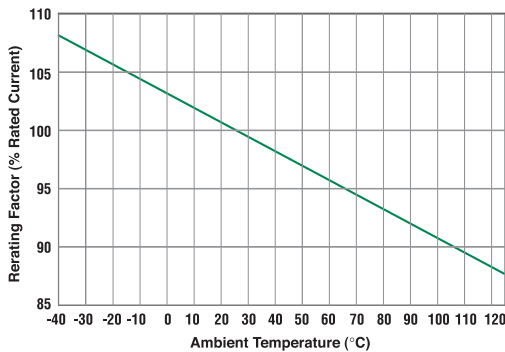
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
100	360,000 s / -
135	60 s / 1800 s
200	4 s / 60 s
350	0.200 s / 7 s
600	0.040 s / 1 s

TIME-CURRENT CHARACTERISTIC CURVES



TEMPERATURE DERATING CURVE



LOW PROFILE JCASE® FUSE TABLE

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Blue	20A	LJCA020.X	LJCA20	LJCA020.XP	LJCA20BP
White	25A	LJCA025.X	LJCA25	LJCA025.XPA	---
Pink	30A	LJCA030.X	LJCA30	LJCA030.XP	LJCA30BP
Green	40A	LJCA040.X	LJCA40	LJCA040.XP	LJCA40BP
Red	50A	LJCA050.X	LJCA50	LJCA050.XP	LJCA50BP
Yellow	60A	LJCA060.X	LJCA60	LJCA060.XP	LJCA60BP



MCASE+™ Fuse

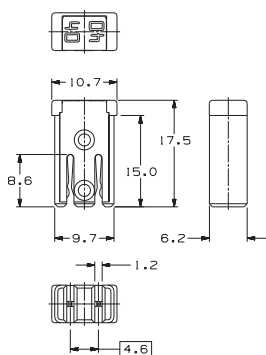


The Unslotted MCASE+™ Fuse is a cartridge style fuse up to 40A with female terminals for 2.8 mm male terminals. The Slotted MCASE+™ Fuse is available in amperages up to 60A and can mate with larger male terminals (e.g., 6.3mm) or even mount directly to onto a busbar. It has a miniaturized footprint for optimal usage of space. It is a time delayed fuse and can handle inrush currents.

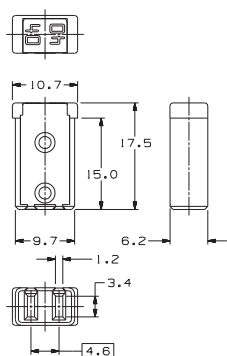
- Voltage Rating: 32 VDC
- Interrupting Ratings: 1000A @ 32 VDC
- Operating Temperature Range: -40°C to +125°C
- Fuse Insertion Force: 50N (11.2lbf) Typical
- Extraction Force: 4N Min. (0.9 lb), 124.5N Max. (5.5 lb)

DIMENSIONS

SLOTTED



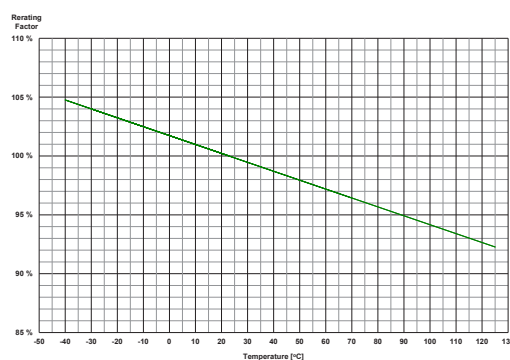
UNSLOTTED



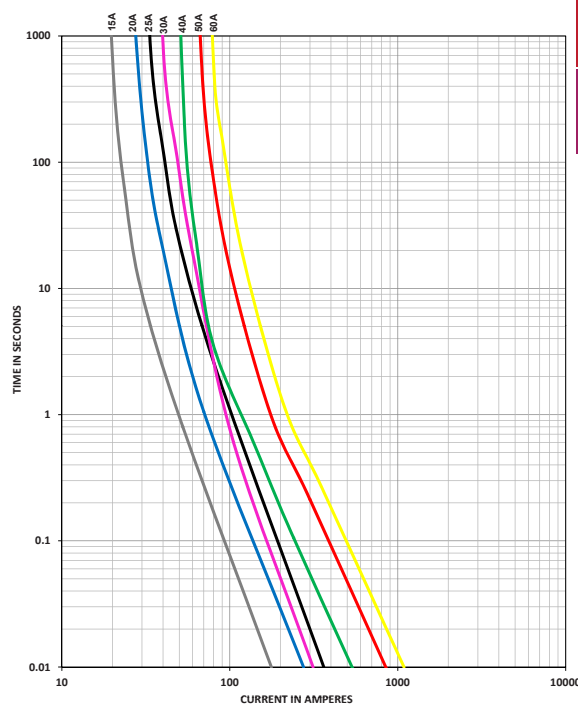
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)
110	100 hrs / -
135	60 s / 1800 s
200	2 s / 60 s
350	0.2 s / 7 s
600	0.04 s / 1 s

TEMPERATURE DERATING CURVE



TIME-CURRENT CHARACTERISTIC CURVES



7
8

MCASE+™ FUSE TABLE

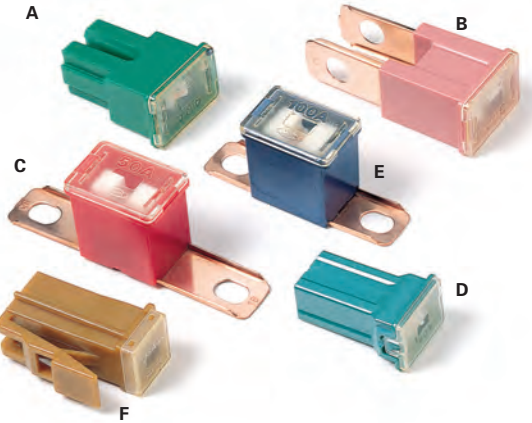
COLOR CODE	CURRENT RATING (A)	BULK 2000 PC	BULK 500 PC	BOXED 1 PC	CARDED
		MATERIAL #	MATERIAL #	MATERIAL #	MATERIAL #
Gray	15A	0695015.PXP	0695015.U	MCAS015.X	MCAS015.XP
Blue	20A	0695020.PXP	0695020.U	MCAS020.X	MCAS020.XP
White	25A	0695025.PXP	0695025.U	MCAS025.X	MCAS025.XP
Pink	30A	0695030.PXP	0695030.U	MCAS030.X	MCAS030.XP
Green	40A	0695040.PXP	0695040.U	MCAS040.X	MCAS040.XP
SLOTTED	Red	0695050.PXPS	0695050.U	---	---
	Yellow	0695060.PXPS	0695060.U	---	---



PAL Auto Link Fuses



Commonly found on many Japanese and Domestic built vehicles in current ratings up to 140 amperes. Available with female connector, male connector, bent connector and locking female connector. Color coded to indicate amp rating.



A. AUTO LINK PAL FEMALE TERMINAL

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Blue	20A	0PAL020.X	PAL020	0PAL020.XP	PAL020BP
Pink	30A	0PAL030.X	PAL030	0PAL030.XP	PAL030BP
Green	40A	0PAL040.X	PAL040	0PAL040.XP	PAL040BP
Red	50A	0PAL050.X	PAL050	0PAL050.XP	PAL050BP
Yellow	60A	0PAL060.X	PAL060	0PAL060.XP	PAL060BP

B. AUTO LINK PAL STRAIGHT MALE TERMINAL

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Pink	30A	0PAL130.X	PAL130	0PAL130.XP	PAL130BP
Yellow	60A	0PAL160.X	PAL160	0PAL160.XP	PAL160BP
Black	80A	0PAL180.X	PAL180	0PAL180.XP	PAL180BP
Blue	100A	0PAL1100X	PAL1100	0PAL1100XP	PAL1100BP
Gray	120A	0PAL1120X	PAL1120	0PAL1120XP	PAL1120BP

C. AUTO LINK PAL 13/16" BENT MALE TERMINAL

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Pink	30A	0PAL230.X	PAL230	0PAL230.XP	PAL230BP
Green	40A	0PAL240.X	PAL240	0PAL240.XP	PAL240BP
Red	50A	0PAL250.X	PAL250	0PAL250.XP	PAL250BP
Yellow	60A	0PAL260.X	PAL260	0PAL260.XP	PAL260BP
Brown	70A	0PAL270.X	PAL270	0PAL270.XP	PAL270BP
Black	80A	0PAL280.X	PAL280	0PAL280.XP	PAL280BP
Blue	100A	0PAL2100X	PAL2100	0PAL2100XP	PAL2100BP
Gray	120A	0PAL2120X	PAL2120	0PAL2120XP	PAL2120BP
Purple	140A	---	---	0PAL2140XP	PAL2140BP

D. AUTO LINK PAL MINI FEMALE TERMINAL

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Pink	30A	0PAL330.X	PAL330	0PAL330.XP	PAL330BP
Green	40A	0PAL340.X	PAL340	0PAL340.XP	PAL340BP

E. AUTO LINK PAL 9/16" BENT MALE TERMINAL

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Pink	30A	0PAL430.X	PAL430	0PAL430.XP	PAL430BP
Green	40A	0PAL440.X	PAL440	0PAL440.XP	PAL440BP
Red	50A	0PAL450.X	PAL450	0PAL450.XP	PAL450BP
Black	80A	0PAL480.X	PAL480	0PAL480.XP	PAL480BP
Blue	100A	0PAL4100X	PAL4100	0PAL4100XP	PAL4100BP
White	120A	---	---	0PAL4120XP	PAL4120BP
Purple	140A	---	---	0PAL4140XP	PAL4140BP

F. AUTO LINK PAL LOCKING FEMALE TERMINAL

COLOR CODE	CURRENT RATING (A)	BOXED		CARDED	
		MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
Brown	25A	0PAL525.X	PAL525	0PAL525.XP	PAL525BP
Green	30A	0PAL530.X	PAL530	0PAL530.XP	PAL530BP





GLASS Fuses

AG and SFE fuses were designed into North American vehicles prior to 1981. Glass fuses are also used for auto accessory applications.

AG Fuses

Originally stood for "all glass." The automotive industry uses the "AG" prefix (AGC, AGW) for most glass fuses. They vary in length, diameter and amperage rating.

Voltage Rating: 32V AC/DC
250V may be substituted



SFE Fuses

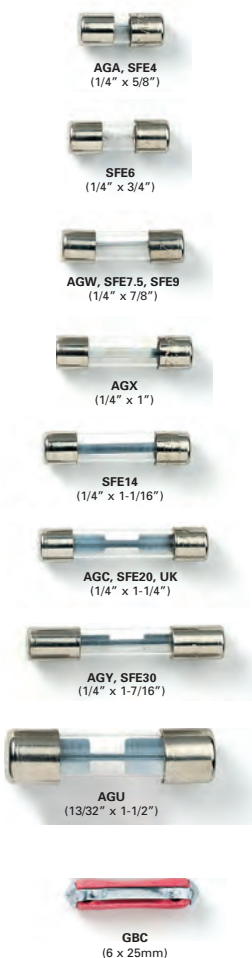
Glass fuses designed to specifications set by the Society of Fuse Engineers. All are 1/4 inch in diameter, but vary in length according to the ampere rating to ensure accurate fuse replacement.

Voltage Rating: 32V AC/DC
250V may be substituted

GBC Fuses

A thermoplastic type, torpedo shaped fuse that can be currently found in many European cars. Consisting of a heat resistant body, the fuse element stretches over the exterior of the body from end to end. The bodies vary in color (by amperage) to ensure proper replacement.

Voltage Rating: 32V AC/DC
250V may be substituted



CURRENT RATING (A)	BOXED		CARDED	
	MATERIAL#	CATALOG#	MATERIAL#	CATALOG#
AGA				
1A	0AGA001.V	AGA1	0AGA001.VP	AGA1BP
2A	0AGA002.V	AGA2	0AGA002.VP	AGA2BP
3A	0AGA003.V	AGA3	0AGA003.VP	AGA3BP
5A	0AGA005.V	AGA5	0AGA005.VP	AGA5BP
6A	0AGA006.V	AGA6	---	---
7.5A	0AGA07.5V	AGA7.5	---	---
10A	0AGA010.V	AGA10	0AGA010.VP	AGA10BP
15A	0AGA015.V	AGA15	0AGA015.VP	AGA15BP
20A	0AGA020.V	AGA20	0AGA020.VP	AGA20BP
25A	0AGA025.V	AGA25	---	---
30A	0AGA030.V	AGA30	0AGA030.VP	AGA30BP
AGC				
.5A	0AGC.500V	AGC.500	---	---
1A	0AGC001.V	AGC1	0AGC001.VP	AGC1BP
1.5A	0AGC01.5V	AGC1.5	0AGC01.5VP	AGC1.5BP
2A	0AGC002.V	AGC2	0AGC002.VP	AGC2BP
2.5A	0AGC02.5V	AGC2.5	0AGC02.5VP	AGC2.5BP
3A	0AGC003.V	AGC3	0AGC003.VP	AGC3BP
4A	0AGC004.V	AGC4	0AGC004.VP	AGC4BP
5A	0AGC005.V	AGC5	0AGC005.VP	AGC5BP
6A	0AGC006.V	AGC6	0AGC006.VP	AGC6BP
7A	0AGC007.V	AGC7	---	---
7.5A	0AGC07.5V	AGC7.5	0AGC07.5VP	AGC7.5BP
8A	0AGC008.V	AGC8	---	---
10A	0AGC010.V	AGC10	0AGC010.VP	AGC10BP
15A	0AGC015.V	AGC15	0AGC015.VP	AGC15BP
20A	0AGC020.V	AGC20	0AGC020.VP	AGC20BP
25A	0AGC025.V	AGC25	0AGC025.VP	AGC25BP
30A	0AGC030.V	AGC30	0AGC030.VP	AGC30BP
35A	0AGC035.V	AGC35	0AGC035.VP	AGC35BP
AGU				
1A	0AGU001.T	AGU1	---	---
2A	0AGU002.T	AGU2	---	---
3A	0AGU003.T	AGU3	---	---
4A	0AGU004.T	AGU4	---	---
5A	0AGU005.T	AGU5	---	---
10A	0AGU010.T	AGU10	---	---
15A	0AGU015.T	AGU15	---	---

CURRENT RATING (A)	BOXED		CARDED	
	MATERIAL#	CATALOG#	MATERIAL#	CATALOG#
AGU				
20A	0AGU020.T	AGU20	---	---
25A	0AGU025.T	AGU25	---	---
30A	0AGU030.T	AGU30	---	---
35A	0AGU035.T	AGU35	---	---
40A	0AGU040.T	AGU40	0AGU040.VPG	AGU40BPG
50A	0AGU050.T	AGU50	0AGU050.VPG	AGU50BPG
60A	0AGU060.T	AGU60	0AGU060.VPG	AGU60BPG
AGW				
1A	0AGW001.V	AGW1	---	---
1.5A	0AGW01.5V	AGW1.5	---	---
2.5A	0AGW02.5V	AGW2.5	---	---
3A	0AGW003.V	AGW3	---	---
4A	0AGW004.V	AGW4	---	---
5A	0AGW005.V	AGW5	0AGW005.VP	AGW5BP
6A	0AGW006.V	AGW6	---	---
15A	0AGW015.V	AGW15	0AGW015.VP	AGW15BP
20A	0AGW020.V	AGW20	0AGW020.VP	AGW20BP
30A	0AGW030.V	AGW30	0AGW030.VP	AGW30BP
AGX				
2A	0AGX002.V	AGX2	---	---
3A	0AGX003.V	AGX3	---	---
20A	0AGX020.V	AGX20	0AGX020.VP	AGX20BP
25A	0AGX025.V	AGX25	0AGX025.VP	AGX25BP
30A	0AGX030.V	AGX30	0AGX030.VP	AGX30BP
GBC				
5A	0GBC005.V	GBC5	---	---
8A	0GBC008.V	GBC8	0GBC008.VP	GBC8BP
16A	0GBC016.V	GBC16	0GBC016.VP	GBC16BP
25A	0GBC025.V	GBC25	0GBC025.VP	GBC25BP
SFE				
4A	0SFE004.V	SFE4	0SFE004.VP	SFE4BP
6A	0SFE006.V	SFE6	0SFE006.VP	SFE6BP
7.5A	0SFE07.5V	SFE7.5	0SFE07.5VP	SFE7.5BP
9A	0SFE009.V	SFE9	0SFE009.VP	SFE9BP
14A	0SFE014.V	SFE14	0SFE014.VP	SFE14BP
20A	0SFE020.V	SFE20	0SFE020.VP	SFE20BP
30A	0SFE030.V	SFE30	0SFE030.VP	SFE30BP



Glass and Ceramic Fuses

A complete line of 3 AG 1" x 1-1/4" fuses designed for battery chargers, diagnostic equipment, appliances and sophisticated electronic equipment. Available bulk, boxed, and carded. Consult your Littelfuse representative or factory for information on glass and ceramic fuses.

3AG SLO-BLO® Indicating Fuse

Littelfuse patented design Indicating fuse instantly shows whether fuse is blown through discoloration of the glass body. Reduces downtime by eliminating time consuming circuit testing and guesswork. This unique design offers the same characteristics as the standard 3AG Slo-Blo 313 fuse.

Voltage Rating: 250V (1/2 – 8A), 32V (10A).

Approvals: UL listed: 1/2 – 8A, Recognized under the Components Program of UL: 10A, CSA Certified: 1/2 – 8A.

BOXED	VOLTAGE RATING	DESCRIPTION
313.500VID	250V	1/2A Indicating 3AG Slo-Blo
313001VID	250V	1A Indicating 3AG Slo-Blo
3131.50VID	250V	1-1/2A Indicating 3AG Slo-Blo
313002VID	250V	2A Indicating 3AG Slo-Blo
313003VID	250V	3A Indicating 3AG Slo-Blo
313004VID	250V	4A Indicating 3AG Slo-Blo
313005VID	250V	5A Indicating 3AG Slo-Blo
3136.25VID	250V	6-1/4A Indicating 3AG Slo-Blo
313007VID	250V	7A Indicating 3AG Slo-Blo
313008VID	250V	8A Indicating 3AG Slo-Blo
313010VID	32V	10A Indicating 3AG Slo-Blo

3AG Normal-Blo Fuse

3AG (311) series Normal-Blo fuses are for use in radios, amplifiers, etc. Features straight type fuse element positioned to center of fuse for easy identification of blown fuse.

Voltage Rating: 32V.

BOXED	VOLTAGE RATING	DESCRIPTION
311005V	32V	5A 3AG Normal-Blo
311010V	32V	10A 3AG Normal-Blo
311015V	32V	15A 3AG Normal-Blo
311025V	32V	20A 3AG Normal-Blo

3AG Slo-Blo® Fuse

3AG (313) series Slo-Blo® fuses have a time delay in the overload range, which provides superior protection for inductive loads such as motors, transformers and solenoids.

Voltage Rating: 250V (1/4 – 8A), 32V (10A – 30A).

Approvals: UL listed: 1/2 – 8A, Recognized under the Components Program of UL: 10A – 30A, CSA Certified: 1/2 – 8A.

BOXED	VOLTAGE RATING	DESCRIPTION
313.250V	250V	1/4A 3AG Slo-Blo
313.500V	250V	1/2A 3AG Slo-Blo
313.750V	250V	3/4A 3AG Slo-Blo
313001V	250V	1A 3AG Slo-Blo
31201.5V	250V	1-1/2A 3AG Slo-Blo
313002V	250V	2A 3AG Slo-Blo
31302.5V	250V	2-1/2A 3AG Slo-Blo
313003V	250V	3A 3AG Slo-Blo
313004V	250V	4A 3AG Slo-Blo
313005V	250V	5A 3AG Slo-Blo
3136.25V	250V	6-1/4A 3AG Slo-Blo
313008V	250V	8A 3AG Slo-Blo
313010V	32V	10A 3AG Slo-Blo
313015V	32V	15A 3AG Slo-Blo

8AG Normal-Blo Fuse

8AG (362) series Normal-Blo fuses are smaller in size (1/4" x 1") and are designed to be used where space limitations prevent the use of 3AG fuses.

Voltage Rating: 32V.

Approvals: UL listed: 1/8 – 5A, CSA Certified: 1/4 – 5A.

BOXED	VOLTAGE RATING	DESCRIPTION
362002V	32V	2A 8AG Normal-Blo
362005V	32V	5A 8AG Normal-Blo

3AB Fast-Acting & Slo-Blo® Ceramic Fuse

Ceramic body construction permits higher interrupting and voltage ratings. Ideal for applications where high current loads are expected.

Voltage Rating: 250V (1/8 – 20A), 125V (25 – 30A).

Approvals: UL listed and CSA Certified: 1/8 – 15A, Recognized under the Components Program of UL: 20 – 30A.

BOXED	VOLTAGE RATING	DESCRIPTION
314010V	250V	10A 3AB Fast-Acting
314015V	250V	15A 3AB Fast-Acting
314020V	250V	20A 3AB Fast-Acting
326015V	250V	15A 3AB Slo-Blo

3AG Fast-Acting Fuse

Fast-acting protection of electronic equipment and appliances. The circuit protection standard for cost effective reliability and performance.

Voltage Rating: 250V (1/4 – 10A), 32V (10A – 35A).

Approvals: UL listed and CSA Certified.

BOXED	VOLTAGE RATING	DESCRIPTION
312.250V	250V	1/4A 3AG Fast-Acting
312.500V	250V	1/2A 3AG Fast-Acting
312.750V	250V	3/4A 3AG Fast-Acting
312001V	250V	1A 3AG Fast-Acting
3121.25V	250V	1-1/4A 3AG Fast-Acting
31201.5V	250V	1-1/2A 3AG Fast-Acting
312002V	250V	2A 3AG Fast-Acting
31202.5V	250V	2-1/2A 3AG Fast-Acting
312003V	250V	3A 3AG Fast-Acting
312004V	250V	4A 3AG Fast-Acting
312005V	250V	5A 3AG Fast-Acting
312006V	250V	6A 3AG Fast-Acting
312007V	250V	7A 3AG Fast-Acting
312008V	250V	8A 3AG Fast-Acting
312010V	250V	10A 3AG Fast-Acting

Circuit Breakers



Type I – Automatic Reset

Cycles or continuously resets until the fault is corrected. Type I circuit breakers are typically used to protect circuits which occasionally experience momentary overloads such as wiper motor and headlamp circuits where a self resetting device is preferred.

Type II – Modified Reset

Non-cycling, remains in open position while there is power to the circuit. Resets when ignition is turned off. Type II circuit breakers are typically used in applications where fuse replacement is objectionable, such as power window, seat and sunroof circuits.

Type III – Manual Reset

Manually resettable circuit breakers remain in the open position until a button, lever or other external reset device is manually depressed. Type III circuit breakers are typically used in applications where a manual reset is desired for safe diagnosis of a circuit fault.

MINI® Circuit Breakers Standard Mini Footprint Circuit Breakers

Designed to fit in a MINI® Blade fuse block or panel. SAE Type II used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard.

CURRENT RATING (A)	BOXED	
	MATERIAL #	CATALOG #
5A	0MIB005.X	MIB5
10A	0MIB010.X	MIB10
15A	0MIB015.X	MIB15
20A	0MIB020.X	MIB20
25A	0MIB025.X	MIB25
30A	0MIB030.X	MIB30

Wide Mini Footprint Circuit Breakers

Direct factory replacement for many domestic OEM applications. Designed to fit either in an ATO® or MINI® Blade fuse block or panel. Their blade configuration is of the MINI design and fit in a standard ATO fuse slot or across two MINI slots. Available in either SAE Type I cycling or SAE Type II non-cycling used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard.

	CURRENT RATING (A)	APPLICATION	BOXED	
			MATERIAL #	CATALOG #
CYCLING	15A	Heavy Truck Headlamp	0MMB015.X	MMB15
	20A	Automotive Headlamp	0MMB020.X	MMB20
NON-CYCLING	10A	Heavy Duty Truck	0MNB010.X	MNB10
	15A	Heavy Duty Truck	0MNB015.X	MNB15
	20A	Automotive/Heavy Truck	0MNB020.X	MNB20
	25A	Automotive/Heavy Truck	0MNB025.X	MNB25
	30A	Automotive/Heavy Truck	0MNB030.X	MNB30

Specialty OEM Circuit Breakers

Direct factory replacement for many domestic OEM vehicles. SAE Type I and Type II modified reset used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard. Designed to mount in ATO style fuse blocks and panels.

CURRENT RATING (A)	APPLICATION	OEM #	BOXED		CARDED	
			MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
20A	Automotive Headlamp	GM# 12040816	---	---	0ACB020.XP	ACB20
30A	Power Windows, & Locks	GM# 01252240	---	---	0ACB030.XP	ACB30
20A	Power Windows	Ford# 83507005	0FCB020.X	FCB20	0FCB020.XP	FCB20BP
25A	Windows, Seats & Locks	Ford# D9AB-14526-BA Chrysler# 4527053	0CCB025.X	CCB25	0CCB025.XP	CCB25BP



Universal Circuit Breakers

Universal Circuit Breakers function identically and have same internal components as OEM breakers but offer the versatility of snap off terminals for greater flexibility. SAE Type II modified reset used primarily as a wiring harness protector in 12 volt DC automotive systems. Meets OEM requirements. Conforms to SAE J553C standard. Designed to mount in ATO style fuse blocks and panels.

CURRENT RATING (A)	BOXED		BOXED 100		BOXED BULK		CARDED	
	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
5A	0UCB005.X	UCB5	BUCB005.H	BUCB5H	BUCB005.Z	BUCB5	0UCB005.XP	UCB5BP
6A	---	---	---	---	---	---	0UCB006.XP	UCB6BP
8A	---	---	---	---	---	---	0UCB008.XP	UCB8BP
10A	0UCB010.X	UCB10	BUCB010.H	BUCB10H	BUCB010.Z	BUCB10	0UCB010.XP	UCB10BP
15A	0UCB015.X	UCB15	BUCB015.H	BUCB15H	BUCB015.Z	BUCB15	0UCB015.XP	UCB15BP
20A	0UCB020.X	UCB20	BUCB020.H	BUCB20H	BUCB020.Z	BUCB20	0UCB020.XP	UCB20BP
25A	0UCB025.X	UCB25	BUCB025.H	BUCB25H	BUCB025.Z	BUCB25	0UCB025.XP	UCB25BP
30A	0UCB030.X	UCB30	BUCB030.H	BUCB30H	BUCB030.Z	BUCB30	0UCB030.XP	UCB30BP

Circuit Breakers



MAXI Circuit Breakers

Direct factory replacement for many domestic OEM applications. Designed to fit a MAXI Blade fuse block or panel. Available in either SAE Type I cycling or SAE Type II non-cycling. Used primarily as a wiring harness protector in 12 volt DC automotive systems. Meet OEM requirements. Conforms to SAE J553C standard.

	CURRENT RATING (A)	APPLICATION	OEM #	BOXED	
				MATERIAL #	CATALOG #
CYCLING	20A	Automotive Headlamp	GM# 12065132	0MCB020.X	MCB20
	30A	Automotive Headlamp, Seats & Wipers	GM# 12088553	0MCB030.X	MCB30
	40A	---	---	0MCB040.X	MCB40
NON-CYCLING	10A	Automotive Power Devices Heavy Truck & Auto Cooling Fan	GM# 12077842 Ford# FGHT-14526-KA	0MXB020.X	MXB20
	15A	Automotive Power Window Heavy Truck & Auto Cooling Fan & Power Window	GM# 12077843 Ford# F6HT-14526-LA	0MXB020.X	MXB30



Fuse Clip Circuit Breakers

Direct replacement for many OEM applications. Designed for glass fuses without physical alteration in the system. Fits 1-1/4" fuse clips. SAE Type II non-cycling used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard.

CURRENT RATING (A)	BOXED		CARDED	
	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
10A	0CBF010.Z	CBF10	0CBF010.XP	CBF10BP
15A	0CBF015.Z	CBF15	0CBF015.XP	CBF15BP
20A	0CBF020.Z	CBF20	0CBF020.XP	CBF20BP
25A	0CBF025.Z	CBF25	0CBF025.XP	CBF25BP
30A	0CBF030.Z	CBF30	0CBF030.XP	CBF30BP
35A	0CBF035.Z	CBF35	0CBF035.XP	CBF35BP
40A	0CBF040.Z	CBF40	0CBF040.XP	CBF40BP



Stud Type Low Voltage (6–12 Volts) Circuit Breakers

SAE Type I automatic reset provides protection in installations where it is not possible to manually reset a breaker because of location or safety requirements. Used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard. Available with mounting bracket-change part number from 812 to 813, e.g. 813005 ST.

CURRENT RATING (A)	BOXED W/O BRACKET		BOXED W/ BRACKET		CARDED	
	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
5A	0812005.ZXST	812005ST	0813005.ZXST	813005ST	---	---
6A	0812006.ZXST	812006ST	0813006.ZXST	813006ST	---	---
8A	0812008.ZXST	812008ST	0813008.ZXST	813008ST	---	---
10A	0812010.ZXST	812010ST	0813010.ZXST	813010ST	---	---
15A	0812015.ZXST	812015ST	0813015.ZXST	813015ST	---	---
20A	0812020.ZXST	812020ST	0813020.ZXST	813020ST	0813020.XP	813020BP
25A	0812025.ZXST	812025ST	0813025.ZXST	813025ST	---	---
30A	0812030.ZXST	812030ST	0813030.ZXST	813030ST	0813030.XP	813030BP
35A	0812035.ZXST	812035ST	0813035.ZXST	813035ST	---	---
40A	0812040.ZXST	812040ST	0813040.ZXST	813040ST	0813040.XP	813040BP
50A	0812050.ZXST	812050ST	0813050.ZXST	813050ST	0813050.XP	813050BP



Circuit Breakers



Hi-Amp Type III Circuit Breakers

These high amp circuit breakers are typically used in auxiliary and accessory circuits for trucks, buses, RVs and marine applications. All high amp circuit breakers comply with the SAE J1117 standard for ignition protection and have applications in battery charger systems and DC audio systems.

CURRENT RATING (A)	BOXED		CARDED	
	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
50A	0185050.X	185050	---	---
60A	0185060.X	185060	---	---
70A	0185070.X	185070	---	---
80A	0185080.X	185080	---	---
100A	0185100.X	185100	0185100.XP	185100BP
120A	0185120.X	185120	0185120.XP	185120BP
150A	---	---	0185150.XP	185150BP

Mini Type I Circuit Breakers

Designed to fit in a MINI blade fuse block or panel. Conforms to SAE J553. Cycles or continuously resets until the fault is corrected. Type I circuit breakers are typically used to protect circuits which occasionally experience momentary overloads such as wiper motor and headlamp circuits where a self resetting device is preferred.



CURRENT RATING (A)	BOXED		CARDED	
	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
10A	---	---	0211010.XP	211010BP
15A	0211015.X	211015	0211015.XP	211015BP
20A	0211020.X	211020	0211020.XP	211020BP
25A	0211025.X	211025	0211025.XP	211025BP
30A	0211030.X	211030	0211030.XP	211030BP

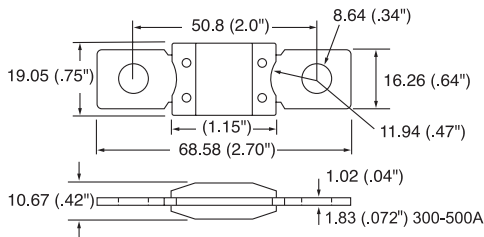


MEGA® Bolt-Down Fuse



The MEGA® Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology." The MEGA® Fuse also provides time delay characteristics. Littelfuse patented device designed for high current protection up to 250 amperes found OEM on Ford, GM and Chrysler vehicles. Slo-Blo® feature eliminates nuisance blowing during temporary, short duration overloads. Commonly used for battery and alternator connections and other heavy gauge cables requiring ultra high current protection.

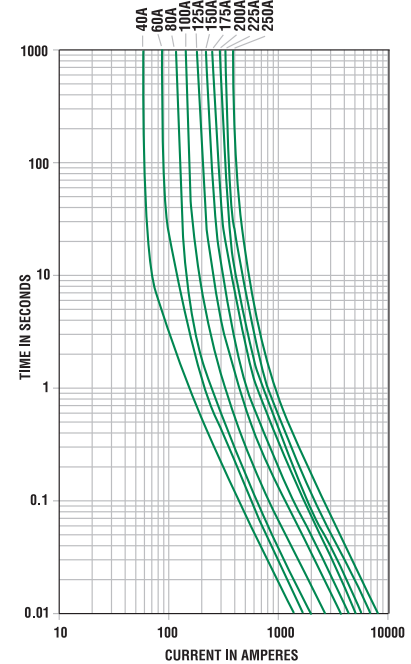
DIMENSIONS



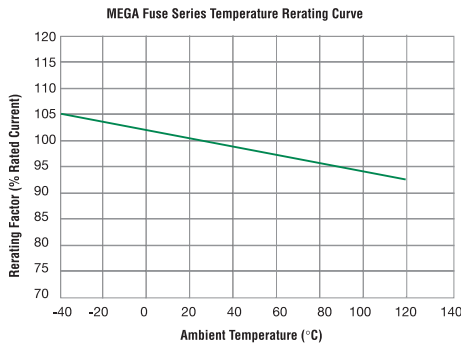
TIME-CURRENT CHARACTERISTICS

% of Rating	Opening Time Min / Max (s)	
	40-250	300-500
75	- / -	14,400 s / -
100	14,400 s / -	- / -
135	120 s / 1800 s	- / -
200	1 s / 15 s	1 s / 15 s
350	0.300 s / 5 s	0.500 s / 5 s
600	0.100 s / 1 s	- / -

TIME-CURRENT CHARACTERISTIC CURVES



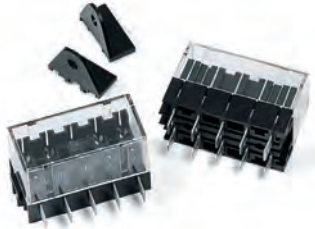
TEMPERATURE RERATING CURVE



MEGA® FUSE TABLE

CURRENT RATING (A)	BOXED 1PC		BOXED 50PC		CARDED	
	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
80A	OMEG080.X	---	---	---	OMEG080.XPA	MEG80BP
100A	OMEG100.X	MEG100	OMEG100.L	MEG100L	OMEG100.XPA	MEG100BP
125A	OMEG125.X	MEG125	OMEG125.L	MEG125L	OMEG125.XPA	MEG125BP
150A	OMEG150.X	MEG150	OMEG150.L	MEG150L	OMEG150.XPA	MEG150BP
175A	OMEG175.X	MEG175	OMEG175.L	MEG175L	OMEG175.XPA	MEG175BP
200A	OMEG200.X	MEG200	OMEG200.L	MEG200L	OMEG200.XPA	MEG200BP
225A	OMEG225.X	MEG225	OMEG225.L	MEG225L	OMEG225.XPA	MEG225BP
250A	OMEG250.X	MEG250	OMEG250.L	MEG250L	OMEG250.XPA	MEG250BP
300A	OMEG300.X	MEG300	OMEG300.L	MEG300L	---	---
350A	OMEG350.X	MEG350	OMEG350.L	MEG350L	---	---
400A	OMEG400.X	MEG400	OMEG400.L	MEG400L	---	---
450A	OMEG450.X	MEG450	OMEG450.L	MEG450L	---	---
500A	OMEG500.X	MEG500	OMEG500.L	MEG500L	---	---





ATO® Fuse Block with 1/4" Quick Connect Terminals

Use with ATO® fuses up to 15 amps. Available in 5 pole unit with removable clear protective cover. Available in side or bottom positioned 1/4" Q.C. terminal configurations. Unit with bottom Q.C. terminals includes detachable side mounting brackets.

TERMINAL STYLE	CARDED	
	MATERIAL #	CATALOG #
1/4" Q.C. side position	03500417XP	350417BP
1/4" Q.C. bottom position (includes mounting brackets)	03500418XP	350418BP



MAXI Fuse Single Pole High Amp Block

Use with MAXI fuses up to 60 amps. Safe/easy replacement for hard to replace fusible link wire. Perfect for high amp audio applications. Interlocking block feature permits two pole position installation. Contains screw terminals. Optional dust cover available.

BOXED		CARDED	
MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
0MAB0001F	MAB1	0MAB0001XP	MAB1BP



MEGA® Fuse Block

Use with MEGA® fuses up to 250 amps. Ideal for battery and alternator connections and other heavy gauge cables requiring ultra high current protection. Includes protective cover. Features interconnecting pins on side of fuse block for secure multiple block configurations. Includes M8 threaded studs and hex nuts with lock washers. Fuse not included.

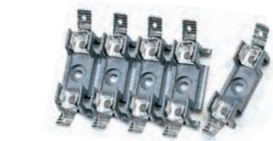
BOXED			
70-PC PACK		20-PC PACK	10-PC PACK
MATERIAL #	CATALOG #	MATERIAL #	MATERIAL #
02980900Z	298900	02980900S	02980900TXN



MIDI® Fuse Block

Use with MIDI® fuses up to 100 amps. Includes protective cover. Features interconnecting pins on side of fuse block for secure multiple block configurations. Includes M5 threaded studs and hex nuts with lock washers. Fuse not included.

BOXED	
20-PC PACK	330-PC PACK
MATERIAL #	CATALOG #
04980900S	04980900ZXT



Omni-Blok® Fuseholder

For 1/4" x 1-1/4" glass fuses. Available in one through twelve pole units. Units may be easily broken apart as needed to obtain the desired number of poles. Rated at 20 amps, 300 volts. "354" series is bulk, "OMN" series is carded.

PART NO.	DESC.	PART NO.	DESC.	PART NO.	DESC.
354801-GY	1 Pole	354805-GY	5 Pole	354809-GY	9 Pole
354802-GY	2 Pole	354806-GY	6 Pole	354810-GY	10 Pole
354803-GY	3 Pole	354807-GY	7 Pole	354811-GY	11 Pole
354804-GY	4 Pole	354808-GY	8 Pole	354812-GY	12 Pole

	CARDED	
	MATERIAL #	CATALOG #
2 Pole	00MN0002XP	OMN2
4 Pole	00MN0004XP	OMN4

Laminated Base Fuse Block with Screw Terminals

For 1/4" x 1-1/4" glass fuses. Available in one through twelve pole units. Rated at 20 amps, 300 volts.

PART NO.	DESC.	PART NO.	DESC.	PART NO.	DESC.
356001	1 Pole	356005	5 Pole	356009	9 Pole
356002	2 Pole	356006	6 Pole	356010	10 Pole
356003	3 Pole	356007	7 Pole	356011	11 Pole
356004	4 Pole	356008	8 Pole	356012	12 Pole





ATO® Add-A-Circuit™ Kit

Allows easy installation of additional circuits without cutting or splicing. Turns one fuse slot into two while providing protection for both circuits. Maintains new car warranty. Use with ATO® Fuses up to 10 amps. Includes ATO 3, 5, 7.5 and 10 amp fuses.

BOXED		CARDED	
MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
0FHA0200Z	FHA200	0FHA0200ZP	FHA200BP

Caution: Fusetaps are not a recommended alternative for adding circuits because they can overstress the terminals in the fuse block. This situation can create a loose fitting fuse, which in turn produces excessive heat, which can cause nuisance blows, even melting of the fuse and fuse block and possibly an expensive repair in the future. When a fusetap is used, in many cases there is no fuse protecting the new circuit, a condition which can also present a hazard.



MINI® Add-A-Circuit™ Kit

Same as ATO® Add-A-Circuit except for use with MINI® Fuses up to 10 amps. Includes MINI 3, 5, 7.5 and 10 amp fuses.

BOXED		CARDED	
MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
0FHM0200Z	FHM200	0FHM0200ZP	FHM200BP



LPMINI® Add-A-Circuit™ Kit

Same as ATO® Add-A-Circuit except for use with LPMINI® Fuses up to 10 amps. Includes LPMINI 3, 5, 7.5 and 10 amp fuses.

BOXED	CARDED
MATERIAL #	MATERIAL #
FHLM0200Z	FHLM0200ZPA



MICRO2® Add-A-Circuit™ Kit

Same as ATO® Add-A-Circuit except for use with MICRO2® Fuses up to 10 amps. Includes MICRO2 3, 5, 7.5 and 10 amp fuses.

BOXED	CARDED
MATERIAL #	MATERIAL #
FHM20200Z	FHM20200ZPA



Battery Power Feed Kit

Attaches directly to battery terminal. Allows the addition of up to 3 circuits. Includes MINI® Fuse In-line Fuseholder with protective cap. Also can be used as a frame ground. Constructed of durable brass for optimal conductivity.

CARDED	
MATERIAL #	CATALOG #
0BPF0001ZP	BPF1BP



MINI® Fuse In-line Fuseholder with Protective Cap

Use with MINI® Fuse 2 to 20 amps. Supplied with two 4" wire leads of 14 gauge black wire. Includes protective cover for harsh environment. **FHM1BP**

MINI® Fuse Heavy Duty In-Line Fuseholder with Protective Cap

Use with MINI® Fuse 25 and 30 amp fuses. Supplied with two 4" wire leads of 12 gauge orange wire. Includes protective cover for harsh environment. **FHM2BP**

CARDED	
MATERIAL #	CATALOG #
0FHM0001XP	FHM1BP
0FHM0002XP	FHM2BP

SMART GLOW CARDED	
MATERIAL #	CATALOG #
0FHM0001XPGL0	20-1020



ATO® Fuse In-line Fuseholder with Protective Cap

Use with ATO® Fuse 1 to 20 amps. Supplied with two 4" wire leads of 16 gauge black wire. Includes protective cover for harsh environment. **FHAC1BP**

ATO® Fuse Heavy Duty In-Line Fuseholder with Protective Cap

Use with ATO® 25 and 30 amp fuses for air conditioner or other heavy duty applications. Supplied with two 4" wire leads of 12 gauge orange wire. Includes protective cover for harsh environment. **FHAC2BP**

CARDED	
MATERIAL #	CATALOG #
FHAC0001XP	FHAC1BP
FHAC0002XP	FHAC2BP



ATO® Fuse In-line Fuseholder

Use with ATO® Fuse 1 to 20 amps. Supplied with two 4" wire leads of 16 gauge black wire. **FHA1BP**

ATO® Fuse Heavy Duty In-Line Fuseholder

Use with ATO® 25 and 30 amp fuses for air conditioner or other heavy duty applications. Supplied with two 4" wire leads of 12 gauge orange wire. **FHA2BP, FHA30BP** includes 30 amp fuse.

BOXED		CARDED	
MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
---	---	0FHA0001XP	FHA1BP
---	---	0FHA0002XP	FHA2BP
0FHA0030Z	FHA30	0FHA0030XP	FHA30BP

SMART GLOW CARDED	
MATERIAL #	CATALOG #
0FHA0001XPGL0	20-1010



ATO® Fuse In-line Panel Mount Fuseholder

Versatile fuseholder for in-line or snap mount panel applications. Interlock body design allows fuseholders to be snapped together. Use with ATO® Fuse 1 to 20 amps. Supplied with 8" loop of 14 gauge black wire. **AFH1BP**

ATO® Fuse Heavy Duty In-line Panel Mount Fuseholder

Use with ATO® Fuse 25 and 30 amp fuses. Same as AFH 1 except supplied with 8" loop of 10 gauge orange wire. **AFH2BP**

CARDED	
MATERIAL #	CATALOG #
0AFH0001XP	AFH1BP
0AFH0002XP	AFH2BP



MAXI Fuse In-line Fuseholder with Protective Cap

Use with MAXI Fuse up to 60 amps. Supplied with two 6" wire leads of 6 gauge black wire. Includes protective cover for harsh environment and mounting hole for easy firewall installation.

BOXED	
MATERIAL #	CATALOG #
MAHC0001ZXJ	MAH1



Universal Glass Bayonet Knob In-line Fuseholder

Constructed of tough black thermoset (UL94V0). Includes 3 springs for various fuse sizes and spring-locked, bayonet type knob. Supplied with 15" loop of 14 gauge red wire. Use with Glass SFE 7 1/2, 9, 14, 20, AGA, AGC, AGW and AGX Fuses up to 20 amps when proper spring is installed.

BOXED	
MATERIAL #	CATALOG #
OFHP0001Z	FHP1



Universal Glass Twist-Lock In-line Fuseholder

Constructed of weather resistant nylon. Simple "twist-lock" allows easy fuse removal and replacement. Supplied with 8" loop of 14 gauge black wire and one spring. Use with Glass SFE 4, 6, 7 1/2, 9, 14, 20, AGA, AGC, AGW and AGX Fuses up to 20 amps.

CARDED	
MATERIAL #	CATALOG #
OFNY0001XP	FNY1BP



Glass Fuse Heavy Duty 30 Amp In-line Fuseholder

Spring loaded heavy duty glass fuseholder includes AGC 30 amp fuse for GM air conditioner, heater blower motors or other heavy duty applications. Supplied with two 4" wire leads of 12 gauge orange wire. FNY20BP includes 20A AGC Fuse.

CARDED	
MATERIAL #	CATALOG #
OFNY0020XP	FNY20BP
OFNY0030XP	FNY30BP

3AG Shock-Safe Panel Fuseholders

Designed to eliminate the possibility of electrical shock, as defined in IEC standards 65 and 257. Shock-Safe fuseholders feature a low profile body, finger-grip knob and anti-tease feature that eliminates circuit interruption when knob is accidentally depressed.

Voltage Rating: 250V.

Approvals: UL listed and CSA Certified. Recognized under the Components Program of UL.



CARDED	VOLTAGE RATING	DESCRIPTION
03453LF2XP	20A	with 1/4" straight NEMA/DIN Quick Connect Terminal
03453LF8XP	20A	with 3/16" straight dual purpose solder terminal





Anti-Theft Battery Master Switch

- Available in two versions, Fused and Detachable.
- Fused version maintains current to all electrical circuits such as the alarm, on-board computer, central locking system and radio memory presets.
- Detachable version features a special disconnect that allows the battery to easily be removed for anti-theft protection. Perfect for seasonal storage needs or easy off vehicle battery charging for Autos, Motorcycles, RV's, Boats, etc.
- Generate sales with the lowest cost anti-theft devices available on the market today.
- A simple turn of the knob isolates the battery and renders the vehicle unstartable.
- Makes anti-theft protection affordable when compared to expensive alarm systems.
- Eliminates complicated installation — no special electrical or mechanical expertise required.
- Fits all standard Top Mount Post batteries. Can be used with Side Mount Post batteries by using a Top Mount Adapter Post (not included).
- Works on 12 to 24 volt systems up to 135 amperes.

CARDED		DESCRIPTION
MATERIAL #	CATALOG #	
0ATD0200XBP	ATD200BP	Anti-theft Battery Master Switch – Detachable
0ATD0300ZBP	ATD300BP	Anti-theft Battery Master Switch – Fused

00970054N



00970025N

Fuse Tester and Puller

Conveniently and easily tests ATO® and MINI® blade fuses either in or out of the fuse block, with or without vehicle battery power. Indicator light on tester glows bright green when fuse is good. Fuse puller end allows for easy fuse removal and replacement. 24V maximum.

Fuse Pullers

Fuse puller allows for easy fuse removal and replacement.

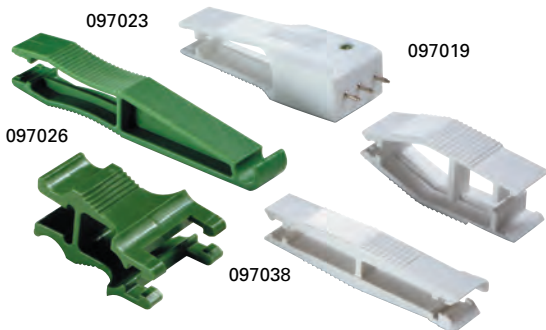


097023

097019

097026

097038



BOXED		CARDED		DESCRIPTION
MATERIAL #	CATALOG #	MATERIAL #	CATALOG #	
00970019X	097019	00970019XP	097019BP	For ATO® & MINI® Fuses
00970023Z	097023	00970023XP	097023BP	Tri-Puller™ – for Glass Fuses, Ceramic Type Fuses, ATO® and MINI® Blade Fuses
00970026N	097026	00970026XP	097026BP	For MAXI Blade Fuses
---	---	00970035XP	---	
00970038Z	097038	00970038XP	---	For ATO® and MINI® Fuses
---	---	00970053XP	---	For JCASE® Fuses
00970025N	---	00970025XPA	---	For Micro2 / Micro3 Fuses
00970054N	---	00970054XPA	---	For MCase Fuses



CNL / CNN Fuses

CNL fast-acting and CNN very fast-acting fuses are recommended for use on battery operated lift trucks and other low voltage battery operated equipment. Part No. example: CNN 700.

- Voltage Rating: CNL: 32V DC
- CNN: 48V DC, 75V AC
- Interrupting Rating: 2,500 amperes
- Ampere Range: 10-800 degrees
- Maximum Torque: 90 lbs.

MATERIAL #	CATALOG #	MATERIAL #	CATALOG #
0CNL035.V	CNL035	0CNN010.V	CNN010
0CNL040.V	CNL040	0CNN035.V	CNN035
0CNL050.V	CNL050	0CNN040.V	CNN040
0CNL060.V	CNL060	0CNN050.V	CNN050
0CNL080.V	CNL080	0CNN060.V	CNN060
0CNL100.V	CNL100	0CNN080.V	CNN080
0CNL125.V	CNL125	0CNN090.V	CNN090
0CNL150.V	CNL150	0CNN100.V	CNN100
0CNL175.V	CNL175	0CNN125.V	CNN125
0CNL200.V	CNL200	0CNN150.V	CNN150
0CNL250.V	CNL250	0CNN175.V	CNN175
0CNL275.V	CNL275	0CNN200.V	CNN200
0CNL300.V	CNL300	0CNN225.V	CNN225
0CNL325.V	CNL325	0CNN250.V	CNN250
0CNL350.V	CNL350	0CNN275.V	CNN275
0CNL400.V	CNL400	0CNN300.V	CNN300
0CNL500.V	CNL500	0CNN325.V	CNN325
---	---	0CNN350.V	CNN350
---	---	0CNN400.V	CNN400
---	---	0CNN500.V	CNN500
---	---	0CNN600.V	CNN600
---	---	0CNN700.V	CNN700
---	---	0CNN800.V	CNN800



Honda Fusible Links

Original equipment replacement fusible link bar for Honda Civics. Available in 45, 55 and 65 amp fuse bars. Carded merchandise only available in 3 piece assortment 094413.

Volkswagen Fusible Links

Original equipment fusible link bar for Volkswagen cars. 30, 40, 50, 60, 80, 110, 150, 175A fuse bars.

Fusible Links

Original equipment replacement fusible link bar. Available in 30, 50, 80 and 100 amp fuse bars.



CARDED		DESCRIPTION
MATERIAL #	CATALOG #	
00940413ZP	094413	ASST Honda Fusible Link Assortment
0FLC014.XP	FLC14BP	Fusible Link 14 AWG
0FLW014.XP	FLW14BP	Fusible Link 14 AWG with Terminals
0FLW016.XP	FLW16BP	Fusible Link 16 AWG with Terminals
00940402ZP		ASST Volkswagen Fusible Link Assortment



Commercial Assortments

Littelfuse Assortments cover all of the professional technician's circuit protection needs. Littelfuse offers the most comprehensive circuit protection kits on the market today addressing the needs of the Professional Service Center and Road Service Operation with genuine Littelfuse OEM fuses. Littelfuse Commercial Assortments are designed for the professional installer who needs a larger quantity and variety of fuses at the point of installation. Assortments are packaged in tough plastic storage containers perfect for the parts drawer, tool box, under counter or road service vehicle.



ATO® Fuse
80 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940409Z	094409	(10) ATO 3 (10) ATO 5 (10) ATO 7.5 (10) ATO 10 (10) ATO 15 (10) ATO 20 (10) ATO 25 (10) ATO 30	



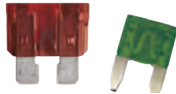
MICRO2™ Fuse
70 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940560ZXA	00940560	(10) MICRO2 5 (10) MICRO2 20 (10) MICRO2 7.5 (10) MICRO2 25 (10) MICRO2 10 (10) MICRO2 30 (10) LPMINI 15	



ATO® / MINI® Fuse
80 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940422Z	094422	(10) ATO 15 (10) ATO 20 (10) ATO 25 (10) ATO 30 (10) MINI 15 (10) MINI 20 (10) MINI 25 (10) MINI 30 (1) Puller	



MICRO2™, MICRO3™, MCASE® Fuse
135 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940570ZXA	00940570	(10) MICRO2, MICRO3 5 (10) MICRO 30 (10) MICRO2, MICRO3 7.5 (5) MCASE 15 (10) MICRO2, MICRO3 10 (5) MCASE 20 (10) MICRO2, MICRO3 15 (5) MCASE 25 (10) MICRO 20 (5) MCASE 30 (10) MICRO 25 (5) MCASE 40	



MINI® Fuse
80 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940551Z	094551	(10) MINI 3 (10) MINI 5 (10) MINI 7.5 (10) MINI 10 (10) MINI 15 (10) MINI 20 (10) MINI 25 (10) MINI 30	



MCASE® Fuse
80 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940565ZXA	00940565	(20) MCASE 20 (20) MCASE 25 (20) MCASE 30 (20) MCASE 40	



Low Profile MINI® Fuse
80 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940552Z	094552	(10) LPMINI 3 (10) LPMINI 5 (10) LPMINI 7.5 (10) LPMINI 10 (10) LPMINI 15 (10) LPMINI 20 (10) LPMINI 25 (10) LPMINI 30	



Low Profile JCASE® Fuse
16 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940553Z	094553	(4) LPJCASE 20 (4) LPJCASE 30 (4) LPJCASE 40 (1) LPJCASE 50 (1) LPJCASE 60 (1) PULLER	



JCASE® Fuse
14 Piece Commercial Assortment



CARD	MATERIAL #	CATALOG #	CONTENT
00940480Z	094480	(4) JCASE 20 (4) JCASE 30 (4) JCASE 40 (1) JCASE 50 (1) JCASE 60 (1) PULLER	

SMART GLOW Fuse®

It glows when it blows.



**Smart Glow ATO® Blade Fuse
80 Piece Commercial Assortment**



**Smart Glow MINI® Blade Fuse
80 Piece Commercial Assortment**



CARDED	MATERIAL #	NEW PACKAGING MATERIAL #	CONTENT
	00940509ZXGLO	00940509ZXGLOA	(10) ATO 3 (10) ATO 5 (10) ATO 7.5 (10) ATO 10 (10) ATO 15 (10) ATO 20 (10) ATO 25 (10) ATO 30

CARDED	MATERIAL #	NEW PACKAGING MATERIAL #	CONTENT
	00940510ZXGLO	00940510ZXGLOA	(10) ATO 3 (10) ATO 5 (10) ATO 7.5 (10) ATO 10 (10) ATO 15 (10) ATO 20 (10) ATO 25 (10) ATO 30

Caddys

Professional Fuse Caddy

Provides a complete assortment designed to meet the professional installer's on-the-road fuse needs. Contains 180 of the most popular fuses and installation tools (includes ATO®/MINI® Tester/ Puller) needed to service passenger cars and light trucks, heavy and medium trucks and buses.

Comes in compact handy storage box perfect for the on-the-road vehicle.



CARDED	MATERIAL #	CATALOG #	CONTENT
	00940396Z	094396	(5) ATO 3 (5) ATO 5 (5) ATO 7.5 (10) ATO 10 (15) ATO 15 (15) ATO 20 (10) ATO 25 (15) ATO 30 (5) MIN 2 (5) MIN 3 (5) MIN 4 (5) MIN 5 (5) MIN 7.5 (5) MIN 10 (5) MIN 15 (5) MIN 20 (5) MIN 25 (5) MIN 30 (5) AGC 5 (5) AGC 10 (5) AGC 15 (5) AGC 20 (5) AGC 25 (5) AGC 30 (5) SFE 14 (5) SFE 20 (5) SFE 30 (1) MAX 20 (1) MAX 30 (1) MAX 40 (1) MAX 50 (1) MAX 60 (1) Fuse Tester and Puller (1) Tri-puller™ (1) MAXI Fuse Puller



Red Box

Designed by Littelfuse®, it features the exact OEM parts used for the glass, ATO®, MINI®, MAXI, PAL, JCase®, low profile MINI®, MCASE, MICRO2 and MICRO3 fuses installed on over 98% of the cars, vans, light trucks and SUV's on the road today. All come packed inside one compact, portable, organized carrying case. With Red Box™, your days of wasting valuable shelf space on redundant part numbers is over. Over 500 fuses inside Red Box™ meet over 98% of the market's circuit protection needs, giving you more coverage and more profit with a lot less inventory.

KIT Professional Installer Case

KIT Professional Installer Case

(no Glass with Module 5)

KIT Professional Installer Case

(no Glass with Module 6)

Glass Module (Module 5)

MATERIAL #	CATALOG #
ORED0BOXZ	REDBOX

MATERIAL #	CATALOG #
ORED0BOXZXNG	REDBOXNG

MATERIAL #
ORED0BOXZXNGA

MATERIAL #	CATALOG #	
ORBOX005Z	RBOX5	
0AGC001.V	AGC GLASS BOX 1A	10
0AGC002.V	AGC GLASS BOX 2A	10
0AGC003.V	AGC GLASS BOX 3A	10
0AGC004.V	AGC GLASS BOX 4A	10
0AGC005.V	AGC GLASS BOX 5A	10
0AGC006.V	AGC GLASS BOX 6A	10
0AGC007.5V	AGC GLASS BOX 7.5A	10
0AGC010.V	AGC GLASS BOX 10A	10
0AGC015.V	AGC GLASS BOX 15A	10
0AGC020.V	AGC GLASS BOX 20A	10
0AGC025.V	AGC GLASS BOX 25A	10
0AGC030.V	AGC GLASS BOX 30A	10
0AGW030.V	AGW GLASS BOX 30A	10
0AGX030.V	AGX GLASS BOX 30A	10
0SFE004.V	SFE GLASS BOX 4A	10
0SFE009.V	SFE GLASS BOX 9A	10
0SFE014.V	SFE GLASS BOX 14A	10
0SFE020.V	SFE GLASS BOX 20A	10
0SFE030.V	SFE GLASS BOX 30A	10
	Puller Tester	1

Low Profile MINI® Module (Module 1)

MATERIAL #	CATALOG #	
ORBOX001Z	RBOX1	
LMIN005.V	5A LOW PROFILE MINI FUSE	5
LMIN007.5V	7.5A LOW PROFILE MINI FUSE	10
LMIN010.V	10A LOW PROFILE MINI FUSE	10
LMIN015.V	15A LOW PROFILE MINI FUSE	10
LMIN020.V	20A LOW PROFILE MINI FUSE	5
LMIN025.V	25A LOW PROFILE MINI FUSE	5
LMIN030.V	30A LOW PROFILE MINI FUSE	10
00970038Z	ATO/MINI PULLER (WHITE)	1

JCASE® Module (Module 2)

MATERIAL #	CATALOG #	
ORBOX002Z	ORBOX002ZXA	RBOX2
JCAS020.V	JCASE 32V S/B BOX 20A	2
JCAS030.V	JCASE 32V S/B BOX 30A	2
JCAS040.V	JCASE 32V S/B BOX 40A	2
JCAS050.V	JCASE 32V S/B BOX 50A	2
JCAS060.V	JCASE 32V S/B BOX 60A	2
00970053Z	JCASE PULLER	1

Blade Fuse Module (Module 3)

MATERIAL #	CATALOG #	
ORBOX003Z	RBOX3	
0ATO005.V	ATO BLADE FUSE BOX 5A	10
0ATO007.5V	ATO BLADE FUSE BOX 7.5A	10
0ATO010.V	ATO BLADE FUSE BOX 10A	25
0ATO015.V	ATO BLADE FUSE BOX 15A	25
0ATO020.V	ATO BLADE FUSE BOX 20A	25
0ATO025.V	ATO BLADE FUSE BOX 25A	25
0ATO030.V	ATO BLADE FUSE BOX 30A	25
0ATO040.V	ATO BLADE FUSE BOX 40A	10
0MIN005.V	MINI BLADE FUSE BOX 5A	10
0MIN007.5V	MINI BLADE FUSE BOX 7.5A	10
0MIN010.V	MINI BLADE FUSE BOX 10A	20
0MIN015.V	MINI BLADE FUSE BOX 15A	20
0MIN020.V	MINI BLADE FUSE BOX 20A	20
0MIN025.V	MINI BLADE FUSE BOX 25A	10
0MIN030.V	MINI BLADE FUSE BOX 30A	10
0MAX020.V	MAXI BLADE BOX 20A	2
0MAX030.V	MAXI BLADE BOX 30A	2
0MAX040.V	MAXI BLADE BOX 40A	2
0MAX050.V	MAXI BLADE BOX 50A	2
0MAX060.V	MAXI BLADE BOX 60A	2
0MAX070.V	MAXI BLADE BOX 70A	1
0MAX080.V	MAXI BLADE BOX 80A	1
00970019X	FUSE TESTER AND PULLER BOX	1
00970038Z	ATO/MINI PULLER (WHITE)	1
00970026N	MAXIFUSE PULLER BOX	1
FHAC0002Z	ATO HD INLINE FUSEHOLDER BOX	1
0FHM0002Z	MINI HD INLINE FUSEHOLDER BOX	1

PAL Module (Module 4)

MATERIAL #	CATALOG #	
ORBOX004Z	RBOX4	
0PAL020.X	FEMALE TERM BOX 20A	1
0PAL030.X	FEMALE TERM BOX 30A	1
0PAL040.X	FEMALE TERM BOX 40A	1
0PAL050.X	FEMALE TERM BOX 50A	1
0PAL060.X	FEMALE TERM BOX 60A	1
0PAL130.X	STRAIGHT MALE TERM BOX 30A	1
0PAL160.X	STRAIGHT MALE TERM BOX 60A	1
0PAL180.X	STRAIGHT MALE TERM BOX 80A	1
0PAL1100.X	STRAIGHT MALE TERM BOX 100A	1
0PAL1120.X	STRAIGHT MALE TERM BOX 120A	1
0PAL230.X	13/16" BENT MALE TERM BOX 30A	1
0PAL240.X	13/16" BENT MALE TERM BOX 40A	1
0PAL250.X	13/16" BENT MALE TERM BOX 50A	1
0PAL260.X	13/16" BENT MALE TERM BOX 60A	1
0PAL270.X	13/16" BENT MALE TERM BOX 70A	1
0PAL280.X	13/16" BENT MALE TERM BOX 80A	1
0PAL2100.X	13/16" BENT MALE TERM BOX 100A	1
0PAL2120.X	13/16" BENT MALE TERM BOX 120A	1
0PAL330.X	MINI FEMALE TERM BOX 30A	1
0PAL340.X	MINI FEMALE TERM BOX 40A	1
0PAL430.X	9/16" BENT MALE TERM BOX 30A	1
0PAL440.X	9/16" BENT MALE TERM BOX 40A	1
0PAL450.X	9/16" BENT MALE TERM BOX 50A	1
0PAL480.X	9/16" BENT MALE TERM BOX 80A	1
0PAL4100.X	9/16" BENT MALE TERM BOX 100A	1
0PAL525.X	LOCKING FEMALE TERM BOX 25A	1
0PAL530.X	LOCKING FEMALE TERM BOX 30A	1

MICRO2, MICRO3, MCase®, LPJCASE® Module (Module 6)

MATERIAL #		
ORBOX006Z		
MIC2005.V	MICRO2 Fuse 5A	10
MIC207.5V	MICRO2 Fuse 7.5A	10
MIC2010.V	MICRO2 Fuse 10A	10
MIC2015.V	MICRO2 Fuse 15A	10
MIC2020.V	MICRO2 Fuse 20A	10
MIC2025.V	MICRO2 Fuse 25A	10
MIC3005.V	MICRO3 Fuse 5A	10
MIC307.5V	MICRO3 Fuse 7.5A	10
MIC3010.V	MICRO3 Fuse 10A	10
MCAS020.V	MCASE Fuse 20A	10
MCAS025.V	MCASE Fuse 25A	10
MCAS030.V	MCASE Fuse 30A	10
MCAS040.V	MCASE Fuse 40A	10
LJCA020.V	LOW PROFILE JCASE 20A	10
LJCA025.V	LOW PROFILE JCASE 25A	10
LJCA030.V	LOW PROFILE JCASE 30A	10
LJCA040.V	LOW PROFILE JCASE 40A	10
LJCA050.V	LOW PROFILE JCASE 50A	10
LJCA060.V	LOW PROFILE JCASE 60A	10



Modular Rack Systems

The new MRS Modular Rack System is a flexible offering of fuses that can be ordered based on your needs. Each rack is sold individually and can be locked together to sit on a counter, or wall mounted. They are also available as a complete kit. Size charts, and color identification charts are included to serve as a guide for easy identification and replacement.

OMRS0001ZXA ATO: OMRS0002ZXA MINI/MAXI:

(5) ATO1	(5) MIN2
(5) ATO2	(5) MIN3
(5) ATO3	(5) MIN4
(5) ATO4	(10) MIN5
(10) ATO5	(10) MIN7.5
(10) ATO7.5	(15) MIN10
(15) ATO10	(20) MIN15
(15) ATO15	(20) MIN20
(20) ATO20	(15) MIN25
(10) ATO25	(15) MIN30
(15) ATO30	(2) MAX20
(5) ATO40	(3) MAX30
	(2) MAX40
	(2) MAX50
	(3) MAX60

OMRS0003ZXA GLASS/CERAMIC:

(5) AGC1	(5) AGW20
(5) AGC2	(10) SFE4
(10) AGC3	(10) SFE7.5
(5) AGC5	(10) SFE9
(5) AGC7.5	(10) SFE14
(10) AGC10	(30) SFE20
(20) AGC15	(10) SFE30
(20) AGC20	(10) GBC8
(10) AGC25	(10) GBC16
(30) AGC30	(10) GBC25
(5) AGW15	

OMRS0004ZXA PAL/MEGA:

(2) PAL20
(4) PAL30
(3) PAL40
(3) PAL50
(2) PAL60
(1) PAL130
(2) PAL160
(3) PAL180
(2) PAL1100
(2) MEG 175

OMRS0005ZXA PAL/JCASE:

(1) PAL1120	(1) PAL340
(1) PAL230	(1) PAL430
(1) PAL240	(1) PAL440
(1) PAL250	(1) PAL450
(1) PAL260	(1) PAL480
(1) PAL270	(1) PAL4100
(1) PAL280	(1) PAL525
(1) PAL2100	(1) PAL530
(1) PAL2120	(1) JCAS40
(1) JCAS20	(1) JCAS50
(2) JCAS30	(1) JCAS60
(1) PAL330	

OMRS0006ZXA ATO/MINI ASST'S:

(12) 094202B
(12) 094362B

OMRS0009ZXA MICRO2/MICRO3/MCASE:

MIC2 5	MIC3 7.5
MIC2 7.5	MIC3 10
MIC2 10	MIC3 15
MIC2 15	MCAS 15
MIC2 20	MCAS 20
MIC2 25	MCAS 25
MIC2 30A	MCAS 30
MIC3 5	MCAS 40

OMRS0007ZXA



MRS3E

MODULAR RACK TABLE

BOXED		DESCRIPTION	CONTENTS
MATERIAL #	CATALOG #		
OMRS0200Z	MRS200	ATO®-MINI®-Maxi Modular Rack System	MRS Racks 1 & 2 (Assembled)
OMRS0200ZXE	MRS200E	EMPTY ATO®-MINI®-Maxi Modular Rack System	MRS Rack with ATO®-MINI®-Maxi graphics (only)
OMRS0200ZXMA	MRS200MA	Marine Fuse Modular Rack System	MRS Rack with ATO®-MINI®-Maxi -Glass graphics (only)
OMRS0300Z	MRS300	ATO®-MINI®-Maxi-Glass Modular Rack System	MRS Racks 1, 2 & 3 (Assembled)
OMRS0300ZXE	MRS300E	EMPTY ATO®-MINI®-Maxi-Glass Modular Rack System	Empty MRS Rack with "Glass" header (only)

CARDED		DESCRIPTION
MATERIAL #	CATALOG #	
OMRS0001Z	MRS1	ATO® Modular Rack System
OMRS0002Z	MRS2	MINI®-Maxi Modular Rack System
OMRS0003Z	MRS3	Glass Modular Rack System
OMRS0003ZXE	MRS3E	Empty Glass Modular Rack System
OMRS0004Z	MRS4	PAL-Mega Modular Rack System
OMRS0005Z	MRS5	PAL-JCASE® Modular Rack System
OMRS0006Z	MRS6	ATO®-MINI® Modular Rack System
OMRS0007Z	MRS7	Modular Rack System Complete (MRS 1, 2, 3, 4, 5 & 6)
OMRS0009ZXA	MRS9	ACS Micro2/Micro3/MCase Modular Rack System

Value Pack Kits

The Littelfuse Value Packs contain a complete assortment of OEM fuses. Value Packs give you the tools for the protection you need — when and where you need it!
The Ultimate fuse kit for home and shop comes in a clear plastic, reusable package.

MATERIAL #	CATALOG #	DESCRIPTION
00940400Z	094400	ATO® Super Value Pack 40pc
00940462Z	094462	MINI® Super Value Pack 40pc
00940475Z	094475	ATO®, MINI®, MAXI Super Value Pack 21pc
00940550Z	094550	MINI®/JCASE® Super Value Pack 29pc
00940554Z	---	Low Profile MINI® / Low Profile JCASE® Super Value Pack 30pc
00940557ZXA	---	AGC Glass Super Value Pack 40pc
00940566ZXA	---	Micro2/Micro3 Super Value Pack 60pc



Fuse Assortment Kits

Littelfuse assortments contain a variety of a type of fuse for your specific needs.

MATERIAL #	CATALOG #	DESCRIPTION	CONTENTS
00940133ZP	94133	European Fuse Assortment	2 each: GBC 8A, 16A Fuses & 1 each: GBC 25 A
00940134ZP	94134	British Fuse Assortment	1 each: AGC 7.5A, 15A, 20A (SFE 20) 1 each: 03000128M Amp Fuses
00940135ZP	94135	Japanese Fuse Assortment	1 each: AGC 5A, 10A, 15A, 20A (SFE 20), 30A Fuses
00940154ZP	94154	American Fuse Assortment	1 each: AGC 10A, 15A, 30A & 1 each: SFE 9A, 14A, 20A Fuses
00940189ZP	94189	Cellular Fuse Assortment	1 each: AGC 1.5A, 3A Fuses & 3 each: AGC 2A Fuses
00940202ZP	94202	ATO Fuse Assortment 6pc	1 each: ATO 5A, 10A, 15A, 20A, 25A, 30A Fuses
00940301ZP	94301	Japanese ATO Fuse Assortment	1 each: ATO 5A, 7.5A, 10A, 15A, 20A Fuses
00940362ZP	94362	Mini Fuse Assortment	1 each: MINI 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
00940408ZP	94408	Computer Fuse Assortment	1 each: AGC .5A Fuses & 2 each: AGC 1A, 2A Fuses
00940412ZP	94412	Electric Fence Assortment	5 each: AGC 1A Fuses
00940416Z	94416	ATO Fuse Assortment (boxed only)	1 each: ATO 10A, 15A, 20A, 25A, 30A Fuses
00940500Z	94500	Mini Fuse Assortment (boxed only)	1 each: MINI 10A, 15A, 20A, 25A, 30A Fuses
00940506ZP	94506	Low Profile Mini Fuse Assortment	1 each: LMIN 7.5A, 10A, 15A, 20A, 25A, 30A Fuses
00940558ZPA	---	Micro2 Fuse Assortment	1 each: Micro2 5A, 10A, 15A, 20A, 25A Fuses
00940559ZPA	---	MCASE Fuse Assortment	1 each: 15A, 20A, 25A, 30A, 40A Fuses
0AGA0001ZP	AGA1ZP	AGA Glass Fuse Assortment	1 each: AGA 1A, 2A, 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A Fuses
0AGC0001ZP	AGC1ZP	AGC Glass Fuse Assortment	1 each: AGC 1A, 2A, 2.5A, 3A, 4A, 5A, 6A, 7.5A, 8A, 10A, 15A, 20A, 25A, 30A, 35A Fuses
0AGW0001ZP	AGW1ZP	AGW/AGX Glass Fuse Assortment	1 each: AGW 3A, 4A, 5A, 15A, 20A, 30A Fuses 1 each: AGX 3A, 20A, 25A, 30A Fuses
0SFE0001ZP	SFE1ZP	SFE Glass Fuse Assortment	1 each: SFE 4A, 6A, 7.5A, 9A Fuses & 2 each: 14A, 20A, 30A Fuses



Smart Glow

MATERIAL #	CATALOG #	DESCRIPTION	CONTENTS
00940202ZPGLO	10-1008	ATO SmartGlow Assortment 5 PK	1 each: ATO 10A, 15A, 20A, 25A, 30A Fuses
00940362ZPGLO	11-1008	Mini SmartGlow Assortment 5 PK	1 each: MINI 10A, 15A, 20A, 25A, 30A Fuses
00940400ZGLO	14-0000	ATO SmartGlow Assortment 42 PK	7 each: ATO GLO 5A, 10A, 15A, 20A, 25A, 30A Fuses
00940462ZGLO	15-0000	Mini SmartGlow Assortment 36 PK	6 each: MINI GLO 5A, 10A, 15A, 20A, 25A, 30A Fuses
00940555ZPGLO	---	ATO SmartGlow Assortment 5 PK w/ Flashlight	1 each: ATO GLO 10A, 15A, 20A, 25A, 30A Fuses & (1) MINI Keychain LED Flashlight
00940556ZPDSGLO	094556DSGLO	Mini SmartGlow Assortment 5 PK Display Strip	1 each: Perforated Display Strip, S Hook 1 each: MINI GLO 10A, 15A, 20A, 25A, 30A Fuses & (1) MINI Keychain LED Flashlight
00940556ZPGLO	094556	Mini SmartGlow Assortment 5 PK w/ Flashlight	1 each: MINI GLO 10A, 15A, 20A, 25A, 30A Fuses & (1) MINI Keychain LED Flashlight
0AGC0001ZPGLO	16-1008	AGC Glass Assortment 5 PK	1 each: AGC 5A, 10A, 15A, 20A, 30A Fuses
0SFE0001ZPGLO	---	SFE Glass SmartGlow Fuse Assortment 5 PK	1 each: SFE 7.5A, 9A, 14A & 2 each: 20A Fuses



Emergency Kits

Available in OEM ATO® and MINI® fuse versions. The Littelfuse Emergency Diagnostic Fuse Kits are ideal for the glove box or trunk offering instant protection in the garage or on the road. Packaging designed to generate impulse sales. Contains the most popular amperages.

Includes roadside tester/puller that tests, removes and installs fuses. Has its own power source that allows it to operate with or without voltage to a maximum of 24 volts.



MATERIAL #	CATALOG #	DESCRIPTION	CONTENTS
00940363ZP	094363	MINI® Emergency Fuse Kit	1 each: MINI 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A Fuses (1) Puller
00940365ZP	094365	Motorcycle Glass Emergency Kit	1 each: AGX 5A, 10A, 15A, 20A Fuses 2 each: AGX 8A Fuses (1) Puller
00940366ZP	094366	Motorcycle ATO® Emergency Kit	1 each: ATO 5A, 7.5A, 10A, 15A, 20A Fuses (1) Puller
00940367ZP	094367	American Glass Emergency Kit	1 each: SFE 9A, 14A, 20A 1 each: AGC 5A, 15A, 30A Fuses (1) Puller
00940368ZP	094368	European GBC Emergency Kit	1 each: GBC 5A, 16A, 25A Fuses 2 each: GBC 8A Fuses (1) Puller
00940369ZP	094369	Japanese Glass Emergency Kit	1 each: AGC 5A, 10A, 15A, 20A, 30A Fuses (1) Puller
00940370ZP	094370	ATO® Emergency Kit	1 each: ATO 5A, 10A, 15A, 20A, 25A, 30A Fuses (1) Puller
00940418ZP	094418	ATO® Emergency Diagnostic Kit	1 each: ATO 5A, 10A, 15A, 20A, 25A, 30A Fuses (1) ATO Puller
00940419ZP	094419	Glass Emergency Fuse Kit	1 each: AGC 7.5, 15A, 20A, 25A, 30A (1) Glass Puller
00940461ZP	094461	MINI® Emergency Diagnostic Kit	1 each: MINI 3A, 4A, 7.5A, 10A, 15A, 20A, 25A, 30A Fuses (1) ATO/MINI Tester/Puller
00940479ZP	094479	ATO®/MINI® Emergency Diagnostic Kit	1 each: ATO 5A, 10A, 15A, 20A, 25A, 30A 1 each: MINI 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A Fuses (1) Puller
00940441ZP	---	Low Profile MINI Emergency Fuse Kit	1 each: LP Mini 2A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A Fuses, (1) Puller
00940442ZP	---	MCase, Micro2, Micro3 Emergency Kit	1 each: MCase 15A, 20A, 25A, 30A, 40A Fuses, (1) MCase Puller 1 each: Micro2 5A, 7.5A, 10A, 15A, 20A, 25A, 30A Fuses 1 each: Micro3 5A, 7.5A, 10A, 15A Fuses, (1) Micro2/3 Puller
00940561ZPA	---	OEM Emergency Kit - GM	1 each: MINI 7.5A, 25A, 30A 1 each: LP MINI 10A, 15A 1 each: JCASE 20A, 30A, 40A, 50A 1 each: LPJCASE 30A, 40A, 2 each: MINI 20A 3 each: MINI 10A, 15A
00940562ZPA	---	OEM Emergency Kit - Ford	1 each: MINI 7.5A, 25A, 30A 1 each: LP MINI 10A, 15A 1 each: JCASE 20A, 30A, 40A, 50A 1 each: LPJCASE 30A, 40A, 2 each: MINI 20A 3 each: MINI 10A, 15A
00940563ZPA	---	OEM Emergency Kit - Chrysler/Dodge/Jeep	1 each: MINI 7.5A, 25A, 30A 1 each: JCASE 20A, 30A, 40A, 50A 2 each: MINI 20A 3 each: MINI 10A, 15A





Planogram

We developed the next generation of Retail Circuit Protection.

You now can fit more product in the same planogram space — 36% more.

MORE SPACE

for higher margin kits and assortments.

OVER 70% GREATER PROFIT POTENTIAL

per square foot with additional SKU's

DOUBLE PLANOGRAM PERFORMANCE

100% increase in retail dollar sales per square foot

INCREASE MARKET COVERAGE

with high amp JCASE, MAXI and PAL Auto Link fuses

**ORIGINAL
EQUIPMENT
MANUFACTURER**

OEM SYMBOL

Prominent on package assures consumers of quality and actual OE replacement.

COLOR CODED

for easier stocking and consumer selection.

RECLOSABLE

Keeps key marketing data with package until completely consumed.

MULTI-LINGUAL

One SKU covers US, Canadian, German and Latin American markets.

MATERIAL #	CATALOG #	DESCRIPTION
00940477Z	094477	Our 87 SKU, 510-piece pre-pack Plan-O-Gram includes full blade-fuse coverage, as well as expanded coverage into newer parts such as Low-Profile MINI, Low-Profile JCASE, MICRO2, MICRO3, MCASE and Emergency Kits. Includes blade fuses, glass fuses, circuit breakers, Assortment and Emergency kits, fuse holders and fuse tester/pullers. Measures approximately 36"x36".
00940478Z	094478	Our 103 SKU, 625-piece pre-pack Plan-O-Gram is our largest retail assortment featuring multiple facings of the most popular items. This assortment expands your line coverage to fill the needs of your DIY and professional dealer/installer customers as well. Measures approximately 48"x32".

Graphics

Header Cards

An attractive header card is available for Littelfuse Circuit Protection product displays. Measures 36" wide x 8" high or 48" X 8" high.

MATERIAL #	DESCRIPTION
AA979	36" X 8" Display Header for 36" Planogram (PART# 00940477Z)
AA980	48" X 8" Display Header for 48" Planogram (PART# 00940478Z)



Packaging / Part Numbering

Bulk Carton

The outer corrugated cardboard box that holds several cartons.



Carton

The outer corrugated cardboard box that holds several inner packs, or bulk fuses (no inner packs).

Blister Pack

A retail package containing one or several identical products, such as fuses, or it may contain an assortment of fuses. Blister packs are designed to fit on a peg-hook. 'Bubble pack' or 'clamshell' packages are blister packs.

Inner Pack

A small chipboard box containing several blister packs or pillboxes.

Pill Box

A small plastic box containing fuses. Pillboxes are snap-shut resealable.

Standard Fuse Packaging

Boxed Merchandise	Pieces/Box	Std. Pack	Order
ATO [®] , MINI [®] Fuses	5 to a box	100 (twenty 5 packs)	by piece
Glass Ceramic Fuses	5 to a box	50 (ten 5 packs)	by piece
AGU Fuses	10 to a box	10 (one 10 pack)	by piece
MAXI, PAL, MEGA [®] , MIDI [®]	1 to a pack	10	by piece
Flashers, Circuit Breakers, Fuseholders	1 to a pack	10	by piece
Retail Packaged Merchandise	Fuses/Card	Std. Pack	Order
ATO [®] , MINI [®] Fuses, Glass, Ceramic Fuses	5 to a card	5 cards/shelf pack	by card
MAXI, PAL, MEGA [®] , MIDI [®] Fuses	1 to a card	5 cards/shelf pack	by card
Plus Packs	25	5 cards/shelf pack	by card
Retail Carded Kits and Assortments	Various	5 cards/shelf pack	by card
Assortments, Jobber Boards, Merchandisers, etc.	Various	Single unit	by unit

Examples of order numbers

Order numbers must have between 9 characters and 15 characters. These are for added description, such as ZXPRO. When you place an order, write or type the characters without a break in the string.

0ATO 010. VP

First set of four
"ATO Fuses"

Second set of four
"10 Amps"

"Retail pack of 5"

OMIN 030. ZXPRO

First set of four
"MINI Fuses"

Second set of four
"30 Amps"

"Professional Pack"

Mandatory characters

First set of four:

These identify the product group, like LMIN (Low profile MINI fuse) or OMAX (MAXI fuses).

Second set of four:

These identify the product subgroup. In fuses, this usually identifies the amperage. The decimal point counts as one character, eg 010. = 10A, 100. = 100A, 01.5 = 1.5A.

9th character:

Inner pack quantity. See list of codes below.

Inner Pack Codes

Quantity Code

I = X	500 = u
5 = V	1000 = M
10 = T	1500 = D
20 = s	2500 = E
50 = L	3000 = W
100 = H	4000 = y
200 = F	5000 = N
250 = G	10 000 = K

Optional characters

10th Character

Packaging type. P= Retail pack, B=Blister Pack.

Last set of 5:

May be used to give additional information, like MXGLO for SmartGlow fuses

FUSE SELECTION CHART

TYPE	MICRO2	ATO®	MINI®	MCASE®	JCASE®	MAXI	MEGA®	PAL Series 0	PAL Series 1	PAL Series 2	PAL Series 3	PAL Series 4	PAL Series 5
ACTUAL SIZE													
	MICRO2 ONLY	SMART GLOW ANSI MANUFACTURE	SMART GLOW ANSI MANUFACTURE	Low Profile JCASE®	SMART GLOW ANSI MANUFACTURE	SMART GLOW ANSI MANUFACTURE		Female Terminal	Straight Male Terminal	13/16" Bent Male Terminal	Mini Female Terminal	9/16" Bent Male Terminal	Locking Female Terminal
Black	1A							80A	80A	80A		80A	
Gray	2A	2A	15A					120A	120A	120A		140A	
Violet	3A	3A	3A			100A		30A	30A	140A		30A	
Pink	4A	4A	30A					30A	30A	30A		30A	
Tan	5A	5A	70A					250A	225A	70A			
Brown	7.5A	7.5A	50A					80A	80A	70A			25A
Red	10A	10A	50A					200A	200A	50A		50A	
Blue	15A	15A	60A					100A	100A	50A		100A	
Yellow	20A	20A	60A					100A	60A	100A			
Clear	25A	25A	80A					60A	60A	60A			
Green	30A	30A	40A					40A	40A	40A		40A	30A
Orange	40A	40A	40A					125A	150A	40A			
White			25A					175A					120A

GLASS

AGU
AGY, SFE30

AGC, SFE20, UK

AGX
AGW, SFE7.5, SFE9

SFE6
AGA, SFE4

AGC
1A, 1.5A, 2A, .5A, 1A, 1.5A, 2A, 2.5A, 3A, 4A, 5A, 6A, 7.5A, 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A, 60A

AGU
1A, 2A, 3A, 4A, 5A, 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A, 60A

AGW
1A, 1.5A, 2A, 2.5A, 3A, 4A, 5A, 6A, 7.5A, 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A, 60A

AGX
2A, 3A, 3A, 4A, 5A, 6A, 15A, 20A, 25A, 30A

AGY
50A

SFE
4A, 6A, 7.5A, 9A, 14A, 20A, 30A

UK
35A, 50A

FUSE HOLDER SELECTION CHART



ATO®

ATO® Fuse In-Line Fuseholder with Protective Cap

Use with ATO® Fuse 1 to 20 amps.

Part Number: FHAC1

ATO® Fuse Heavy Duty In-Line Fuseholder with Protective Cap

Use with ATO® 25 and 30 amp fuses for air conditioner or other heavy duty applications.

Part Number: FHAC2



ATO® Fuse In-Line Fuseholder

Use with ATO® Fuse 1 to 20 amps.

Part Number: FHA1

ATO® Fuse Heavy Duty In-Line Fuseholder

Use with ATO® 25 and 30 amp fuses for air conditioner or other heavy duty applications. FHA30 includes 30 amp fuse.

Part Number: FHA2, FHA30



ATO® Fuse In-Line Panel Mount Fuseholder

Versatile for in-line or snap mount panel applications. Interlock body design allows fuseholders to be snapped together. Use with ATO® Fuse 1 to 20 amps.

Part Number: AFF1

ATO® Fuse Heavy Duty In-Line Panel Mount Fuseholder

Use with ATO® Fuse 25 and 30 amp fuses.

Part Number: AFF2



SMARTGLOW®

ATO® & MINI®

ATO® and MINI® SMARTGLOW Fuse In-line Fuseholder with Protective Cap

Clear housing to display SmartGlow fuse. Use with ATO® Fuse 1 to 20 amps and MINI® Fuse 2 to 20 amps.

Part Number: 20-1010 (ATO®), 20-1020 (MINI®)



MINI®

MINI® Fuse In-line Fuseholder with Protective Cap

Use with MINI® Fuse 2 to 20 amps.

Part Number: FHM1

MINI® Fuse Heavy Duty In-Line Fuseholder with Protective Cap

Use with MINI® Fuse 25 and 30 amp fuses.

Part Number: FHM2



MAXI

MAXI™ Fuse In-line Fuseholder with Protective Cap

Use with MAXI™ Fuse up to 60 amps.

Part Number: MAH1



GLASS

Universal Glass Bayonet Knob In-line Fuseholder

Use with Glass SFE 71/2, 9, 14, 20, AGA, AGC, AGW and AGX Fuses up to 20 amps when proper spring is installed.

Part Number: FHP1

Universal Glass Twist-Lock In-line Fuseholder

Use with Glass SFE 4, 6, 71/2, 9, 14, 20, AGA, AGC, AGW and AGX Fuses up to 20 amps.

Part Number: FNV1

Glass Fuse Heavy Duty 30 Amp In-line Fuseholder

Spring loaded heavy duty glass fuseholder includes AGC 30 amp fuse for GM air conditioner, heater blower motors or other heavy duty applications. FNV 20 includes 20A AGC Fuse.

Part Number: FNV30, FNV20

Additional Fuse Holders are available.

Littelfuse®

Expertise Applied | Answers Delivered



Expertise Applied | Answers Delivered

Littelfuse, Inc.
8755 West Higgins Road Suite 500
Chicago, IL, 60631 USA
773-628-1000