



**PROTECTRON<sup>®</sup>**  
**ELECTROMECH (P) LTD**

**AUTOMOTIVE FUSES &  
ACCESSORIES**





## ABOUT US

Protectron Electromech is a manufacturer of professional grade circuit protection devices, interconnect solutions, EMI / RFI shielding products and cable assemblies.

Our team has extensive experience across wide variety of industries and is focused on technology. Our customers include automotive, EV, defense, telecom, computer, medical, lighting, domestic appliances and a host of other industrial users.

## QUALITY ASSURANCE

With this focus over 50 years of industry experience, we strive to offer our customers high quality and value driven solutions. The assurance of quality and service is strengthened by the various product approvals and certifications. The company maintains a well documented system utilizing an ERP package for all manufacturing operations and quality assurance functions.

## PRODUCT APPROVALS

Fuses - UL, RoHS, ARAI & LCSO  
Connectors – RoHS, LCSO

## CERTIFICATION

ISO 9001, 14001 & IATF 16949



# AUTOMOTIVE FUSE

## BLADE FUSE



### Midi Blade Fuse (PA/PC)

|                     |                              |
|---------------------|------------------------------|
| Series Part no.     | PTF 200 In-N / PTF 200 In    |
| Interrupting Rating | 1000A @32VDC                 |
| Available Rating    | 2A to 40A                    |
| Voltage Rating      | 32 VDC                       |
| Fuse Material       | Zinc Alloy, Plated           |
| Housing Material    | Nylon (PA66) / Polycarbonate |
| Compliance          | SAE J1284, ISO 8820-3        |

### Midi Blade Fuse with Short Leg

|                     |                    |
|---------------------|--------------------|
| Series Part no.     | PTF 200 In-SN      |
| Interrupting Rating | 1000A @32VDC       |
| Available Rating    | 2A to 40A          |
| Voltage Rating      | 32 VDC             |
| Fuse Material       | Zinc Alloy, Plated |
| Housing Material    | Nylon (PA66)       |



### Micro 2 Fuse

|                     |                      |
|---------------------|----------------------|
| Series Part no.     | PTF 500 In           |
| Interrupting Rating | 1000A @32VDC         |
| Available Rating    | 5A to 30A            |
| Voltage Rating      | 32 VDC               |
| Fuse Material       | Zinc Alloy, Plated   |
| Housing Material    | Nylon (PA66)         |
| Compliance          | SAE 2741, ISO 8820-3 |





# AUTOMOTIVE FUSE

## BLADE FUSE

### Mini Blade Fuse - 32 V

|                     |                       |
|---------------------|-----------------------|
| Series Part no.     | PTF 300-In            |
| Interrupting Rating | 1000A @32VDC          |
| Available Rating    | 2A to 30A             |
| Voltage Rating      | 32 VDC                |
| Fuse Material       | Zinc Alloy, Plated    |
| Housing Material    | Nylon (PA66)          |
| Compliance          | SAE J2077, ISO 8820-3 |



### Mini Blade Fuse - 58 V

|                     |                                 |
|---------------------|---------------------------------|
| Series Part no.     | PTF 600 In                      |
| Interrupting Rating | 1000A @58VDC                    |
| Available Rating    | 2A to 30A                       |
| Voltage Rating      | 58 VDC                          |
| Fuse Material       | Zinc Alloy, Plated              |
| Housing Material    | Nylon (PA66)                    |
| Compliance          | SAE J2077, SAE 2576, ISO 8820-3 |

### Low Profile Mini Blade Fuse

|                     |                    |
|---------------------|--------------------|
| Series Part no.     | PTF 400 In         |
| Interrupting Rating | 1000A @58VDC       |
| Available Rating    | 5A to 30A          |
| Voltage Rating      | 58 VDC             |
| Fuse Material       | Zinc Alloy, Plated |
| Housing Material    | Nylon (PA66)       |
| Compliance          | ISO 8820-9         |

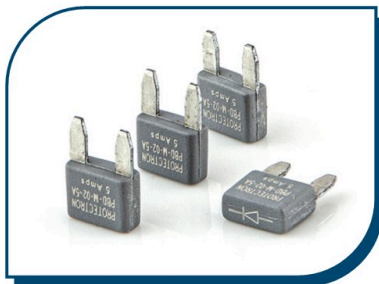
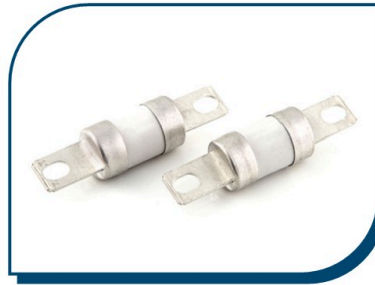


## AUTOMOTIVE FUSE

### BLADE FUSE

#### EV Fuse

|                     |                      |
|---------------------|----------------------|
| Series Part no.     | PEVFC 100 In         |
| Interrupting Rating | 2000A @450VDC        |
| Available Rating    | 100A to 150A         |
| Voltage Rating      | 450 VDC              |
| Tube Material       | Ceramic              |
| Fuse Material       | Copper Alloy, Plated |
| Cap                 | Copper Alloy, Plated |
| Bolting Tab         | Copper Alloy, Plated |
| Compliance          | ISO 8820-8           |

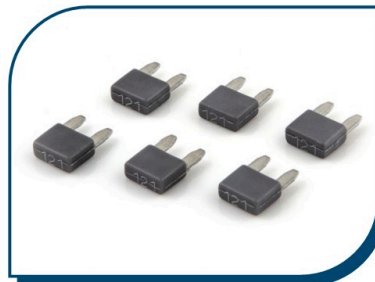


#### Mini Diode

|                          |                    |
|--------------------------|--------------------|
| Series Part no.          | PBD-M-02-In        |
| Avg. Output Current      | 1A to 5A           |
| Peak Reverse Voltage     | 1000V              |
| Max. RMS Voltage         | 700V               |
| Max. DC Blocking Voltage | 1000V              |
| Contact Material         | Zinc Alloy, Plated |
| Housing Material         | Nylon (PA6)        |
| No. of Diodes            | 1No Silicon Diode  |

#### Mini Resistor

|                  |                                     |
|------------------|-------------------------------------|
| Series Part no.  | PMR-XX                              |
| Resistance       | 121 to 1000 $\Omega$ , 1/2W 1 to 5% |
| Fuse Material    | Zn Alloy                            |
| Plating Material | Tin Plated                          |
| Housing Material | Nylon (PA6)                         |



Note: Any Customization can be developed



## AUTOMOTIVE FUSE

### Glass Fuse

|                   |               |
|-------------------|---------------|
| Series Part no.   | PXF In VK/VU  |
| Fuse Size         | 6.3X25/30mm   |
| Breaking Capacity | 35A or 10In > |
| Available Rating  | 0.5A to 20A   |
| Voltage Rating    | 32VDC         |



### Glass Fuse

|                   |              |
|-------------------|--------------|
| Series Part no.   | PSF          |
| Fuse Size         | 5.2x20mm     |
| Breaking Capacity | 35A or 10In> |
| Available Rating  | 100mA to 30A |
| Voltage Rating    | 250V         |



### Ceramic Fuse

|                   |              |
|-------------------|--------------|
| Series Part no.   | PATC-In      |
| Fuse Size         | 6.3X32mm     |
| Breaking Capacity | 35A or 10In> |
| Available Rating  | 200mA to 35A |
| Voltage Rating    | 250V         |

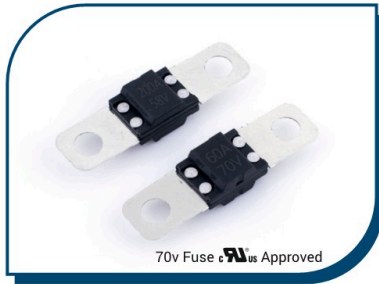
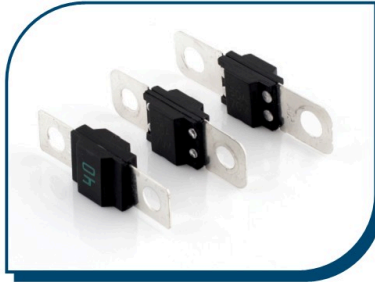


## AUTOMOTIVE FUSE

### MEGA & MIDI BOLT DOWN

#### Midi Bolt Down Fuse (32V)

|                     |               |
|---------------------|---------------|
| Series Part no.     | PBFT-LCT-In   |
| Interrupting Rating | 1000A @32 VDC |
| Available Rating    | 20A to 200A   |
| Voltage Rating      | 32 VDC        |
| Fuse Material       | Copper        |
| Plating Material    | Tin Plated    |
| Housing Material    | Nylon (PA66)  |
| Mounting Hole Size  | M5            |
| Compliance          | ISO 8820-5    |



#### Midi Bolt Down Fuse (58V, 70V)

|                     |               |
|---------------------|---------------|
| Series Part no.     | PBFT-LT-In    |
| Interrupting Rating | 2500A @70 VDC |
| Available Rating    | 30A to 200A   |
| Voltage Rating      | 70 VDC        |
| Fuse Material       | Copper        |
| Plating Material    | Tin Plated    |
| Housing Material    | PPA           |
| Mounting Hole Size  | M6            |
| Compliance          | ISO 20934     |

#### Mega Bolt Down Fuse (70V)

|                     |               |
|---------------------|---------------|
| Series Part no.     | PBFM-KT-In    |
| Interrupting Rating | 2500A @70 VDC |
| Available Rating    | 60A to 500A   |
| Voltage Rating      | 70 VDC        |
| Fuse Material       | Copper        |
| Plating Material    | Sn plated     |
| Housing Material    | PPA           |
| Mounting Hole Size  | M8            |
| Compliance          | ISO 20934     |



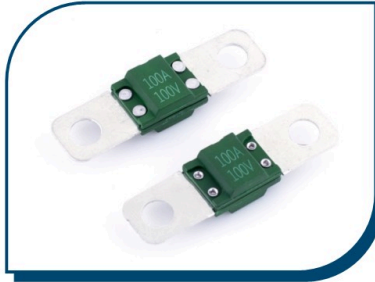


# AUTOMOTIVE FUSE

## MEGA & MIDI BOLT DOWN

### Midi Bolt Down Fuse (100V)

|                     |                |
|---------------------|----------------|
| Series Part no.     | PBFT-100V-In   |
| Interrupting Rating | 2500A @100 VDC |
| Available Rating    | 30A to 200A    |
| Voltage Rating      | 100 VDC        |
| Fuse Material       | Copper         |
| Plating Material    | Tin Plated     |
| Housing Material    | PPA + GF       |
| Mounting Hole Size  | M6             |
| Compliance          | ISO 20934      |



### Midi Bolt Down Fuse (120V)

|                     |                |
|---------------------|----------------|
| Series Part no.     | PBFT-120V-In   |
| Interrupting Rating | 2500A @120 VDC |
| Available Rating    | 30A to 200A    |
| Voltage Rating      | 120 VDC        |
| Fuse Material       | Copper         |
| Plating Material    | Tin Plated     |
| Housing Material    | CERAMIC        |
| Mounting Hole Size  | M6             |
| Compliance          | ISO 20934      |



# AUTOMOTIVE FUSE

## MEGA & MIDI BOLT DOWN

### Box Type Fuse Holder

|                             |                     |
|-----------------------------|---------------------|
| Series Part no.             | P803B-01 / P803L-02 |
| Operating Temperature Range | -40°C to +125°C     |
| Available Rating            | 200A Max            |
| Voltage Rating              | 32V / 70 VDC        |
| Housing Material            | NYLON, UL94V-0      |
| Torque Rating               | 5Nm                 |
| Mounting Hole Size          | M5.0 / M6.0         |



### Midi Bolt Down Fuse Holder

|                             |                            |
|-----------------------------|----------------------------|
| Series Part no.             | P803L-01                   |
| Operating Temperature Range | -40°C to +125°C            |
| Fuse Rating                 | 200A Max                   |
| Voltage Rating              | 70 VDC                     |
| Housing Material            | Nylon Glass-Filled UL94V-0 |
| Torque Rating               | 5Nm-15Nm                   |
| Mounting Hole Size          | M6.0                       |

### Mega Bolt Down Fuse Holder

|                             |                    |
|-----------------------------|--------------------|
| Series Part no.             | P803C-02           |
| Operating Temperature Range | -55°C to +105°C    |
| Available Rating            | 500A Max           |
| Voltage Rating              | 70 VDC             |
| Housing Material            | PBT+15%GF, UL94V-0 |
| Torque Rating               | 5Nm                |
| Mounting Hole Size          | M8.0               |

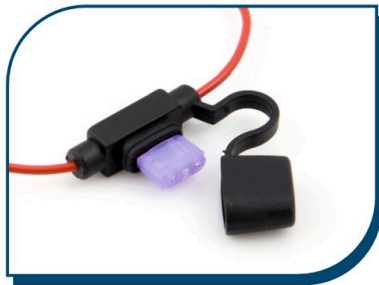
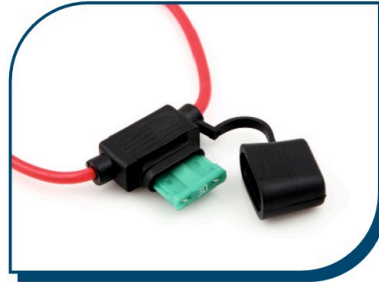


# AUTOMOTIVE FUSE

## INLINE FUSE HOLDERS

### For Midi Blade Fuse

|                                   |                          |
|-----------------------------------|--------------------------|
| Part no.                          | P8039-19                 |
| Max. Current                      | 20A                      |
| Insulation Resistance at 500V DC  | 100M $\Omega$ Min.       |
| Contact Resistance                | 5m $\Omega$ Max at 1A DC |
| Dielectric strength for 60seconds | AC 1000V min.            |
| Housing Material                  | PVC                      |
| Compatible Wiring                 | 10-18AWG                 |
| Characteristic                    | Water Proof              |



### For Mini Blade Fuse

|                                   |                      |
|-----------------------------------|----------------------|
| Part no.                          | P8041-19             |
| Max. Current                      | 15A                  |
| Insulation Resistance at 500V DC  | 100MQ Min.           |
| Contact Resistance                | 5m $\Omega$ at 1A DC |
| Dielectric Strength For 60seconds | AC 1000V min.        |
| Housing Material                  | Nylon                |
| Compatible Wiring                 | 12-16AWG             |
| Characteristic                    | Water Proof          |



## AUTOMOTIVE FUSE

### INLINE FUSE HOLDERS

#### For LP Mini Blade Fuse

|                                  |                 |
|----------------------------------|-----------------|
| Part no.                         | P803D-19        |
| Max. Current                     | 20A             |
| Insulation Resistance at 500V DC | 100MΩ Min.      |
| Contact Resistance               | 5mΩ at 1A DC    |
| Housing Material                 | Nylon           |
| Compatible Wiring                | 12-20AWG        |
| Characteristic                   | Water Resistant |



#### For Glass Fuse (5.2x20mm)

|                                  |              |
|----------------------------------|--------------|
| Part no.                         | P8027A-A1    |
| Size                             | 5.2x20mm     |
| Max. Current                     | 20A          |
| Insulation Resistance at 500V DC | 100MΩ Min.   |
| Contact Resistance               | 5mΩ at 1A DC |
| Dielectric Strength for 60secs   | 1500V AC     |
| Housing Material                 | Nylon        |
| Compatible Wiring                | 18~22AWG     |
| Characteristic                   | Screw Type   |

*Note : Available in waterproof too.*

#### For Glass Fuse (6.3x32mm)

|                                  |             |
|----------------------------------|-------------|
| Part no.                         | P8027-A2    |
| Size                             | 26.3x32mm   |
| Max. Current                     | 20A         |
| Insulation Resistance at 500V DC | 100MΩ Min   |
| Contact Resistance               | 5mΩ @ 1A DC |
| Dielectric Strength for 60secs   | 1500V AC    |
| Housing Material                 | Nylon       |
| Compatible Wiring                | 18~22AWG    |
| Characteristic                   | Screw type  |

*Note : Available in waterproof too.*

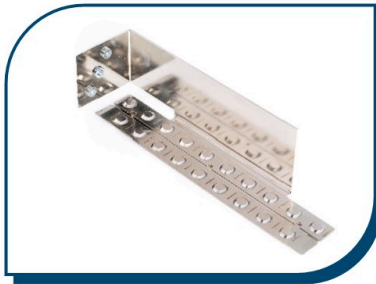
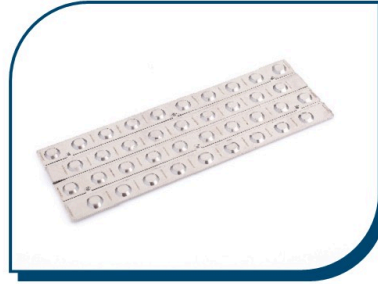


# AUTOMOTIVE FUSE

## BUS BAR

### Current Controller Assy

|                  |                |
|------------------|----------------|
| Part no.         | P61B01004      |
| Material         | Aluminium 6061 |
| Plating Material | Nickel Coating |



### Minus Ary

|                  |                |
|------------------|----------------|
| Part no.         | P61B00604      |
| Material         | Aluminium 6061 |
| Plating Material | Nickel Coating |

### Plus Ary

|                  |                |
|------------------|----------------|
| Part no.         | P61B00804      |
| Material         | Aluminium 6061 |
| Plating Material | Nickel Coating |





## AUTOMOTIVE FUSE EV CHARGING CONNECTOR



**Vehicle Side Connector**



**Charging Side Connector**

|                         | Power Contacts                      | Signal Contacts | Ground Contact         |
|-------------------------|-------------------------------------|-----------------|------------------------|
| Mating Pin Diameter     | Ø6.0mm                              | Ø3.0mm          | Ø6.0mm                 |
| No of Terminals         | 4 to 2 Sets                         | 2 No's          | 1 No                   |
| Rated Operating Voltage | 250V/450V (50HZ)                    | 22V             |                        |
| Operating Current       | 16A/32A/63A                         | 2A              |                        |
| Contact Impedance       | ≤5mΩ                                |                 |                        |
| Insulation Resistance   | ≥2500MΩ                             |                 |                        |
| Pressure Rating         | 2500V                               |                 |                        |
| Cable Diameter          | 16A: 2.5mm<br>32A: 6mm<br>63A: 10mm | 0.75mm          | 16A: 2.5mm<br>32A: 6mm |
| Mating Cycles           | ≥10000 Cycles                       |                 |                        |



**EV Charging Plug Handle (50A)**

|                   |                          |
|-------------------|--------------------------|
| Part no.          | PEVCS006-20-11-07        |
| Rated Current     | 50A AC                   |
| Rated Voltage     | 240V/415V AC             |
| Contact Material  | Copper Alloy             |
| Plating Material  | Silver Plating           |
| Housing Material  | Thermoplastic            |
| Standard          | IEC-62196-2 (IP44 Rated) |
| Temperature Range | -25°C TO 40°C            |



## AUTOMOTIVE FUSE

### EV CHARGING CONNECTOR

#### EV Charging Socket, Vehicle Mount (50A)

|                   |                          |
|-------------------|--------------------------|
| Part no.          | PEVCF003-07-11           |
| Rated Current     | 50A AC                   |
| Rated Voltage     | 240V/415V AC             |
| Contact Material  | Copper Alloy             |
| Plating Material  | Silver Plating           |
| Housing Material  | Thermoplastic            |
| Standard          | IEC-62196-2 (IP44 Rated) |
| Temperature Range | -25°C TO 40°C            |



#### EV Charging Plug Handle (200/250A)

|                   |                             |
|-------------------|-----------------------------|
| Part no.          | TBD                         |
| Rated Current     | 200/250A                    |
| Rated Voltage     | 250/440V AC, 750V DC        |
| Contact Material  | Copper Alloy                |
| Plating Material  | Silver Plating              |
| Housing Material  | Thermoplastic               |
| Standard          | GB/T20234-2015 (IP55 Rated) |
| Temperature Range | -30°C TO 50°                |

#### EV Charging Socket, Vehicle Mount (200/250A)

|                   |                            |
|-------------------|----------------------------|
| Part no.          | TBD                        |
| Rated Current     | 200/250A                   |
| Rated Voltage     | 250/440V AC, 750V DC       |
| Contact Material  | Copper Alloy               |
| Plating Material  | Silver Plating             |
| Housing Material  | Thermoplastic              |
| Standard          | GB/T20234-2015 (IP55 Rate) |
| Temperature Range | -30°C TO 50°C              |





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