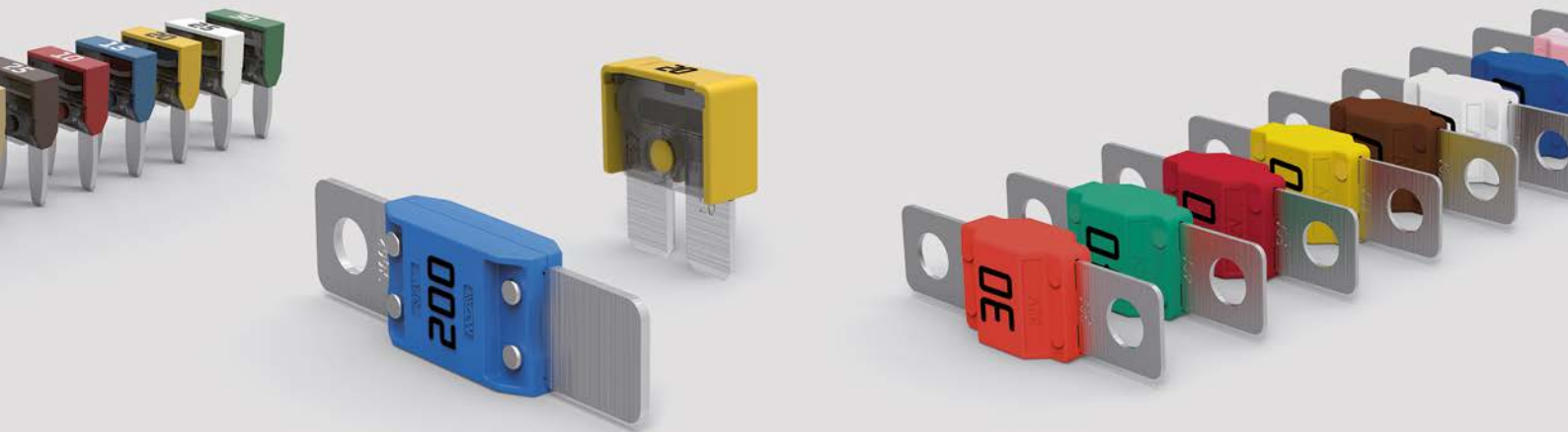


# AUTOMOTIVE FUSES

## 汽车保险丝



# TECHNOLOGICAL KNOWLEDGE AND HIGH PERFORMANCES

MTA has been developing and producing fuses for automotive applications since 1954 and invests each year in Research & Development to grant state-of-the-art products to remain at the forefront of technological innovation.

A dedicated Research & Innovation Team concentrates on entering new fuse typologies in the market, presenting new solutions and new technologies to secure a leading competitive position.

MTA is a member of ISO committee with several OEMs homologations.

## 技术知识与高性能

MTA自1954年以来一直在开发和生产汽车应用保险丝，并每年投资于研发，使其产品保持在技术创新的前沿。

一支专门的研究创新团队专注于新的保险丝技术，提供新的解决方案和技术，以确保领先的竞争地位。

MTA是ISO认证成员，拥有多个OEM认证。



Download all the technical data sheets on  
[www.mta.it/en/fuses](http://www.mta.it/en/fuses)

## THE RANGE

Besides the most known Mini, Standard and Maxi blade fuses, and the Midi and Mega bolt-down, MTA has developed two special ranges of fuses called “Compact” and “Power”.

The Compact range, consisting in MaxiCompact, M8Compact and MegaCompact, has been developed to meet the latest demands of a market that requires smaller and lighter fuses. Simulations of real-world applications in fuse boxes have shown how we can obtain a considerable decrease in the raw materials used, the size and the total weight of the finished product.

The PowerVal line has been developed in order to safeguard loads as traditional starters and their feed systems both from electrical malfunction (overloading and/or short circuit) and mechanical problems (shaft stoppage and subsequent overcurrent).

## CUSTOMIZED FUSES

The increasingly complex geometries of the distribution boxes have led us to develop fuses with blades to be screwed, to be clinched. In some cases they may be bent, in other cases they can be designed as male counterparts for clip terminals of different sizes and shapes.

## 产品范围

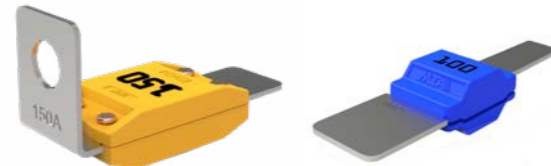
除了最熟悉的Mini、Standard和Maxi刀片保险丝，以及Midi和Mega螺栓式保险丝外，MTA还开发了两种特殊的保险丝系列，分别称为“Compact”和“Power”。

Compact系列包括MaxiCompact、M8Compact和MegaCompact，旨在满足市场对更小、更轻保险丝的最新需求。对保险丝盒实际应用的模拟表明，我们可以大幅减少所用原材料、成品的尺寸和总重量。

PowerVal生产线的开发是为了保护传统起动器及其馈电系统的负载免受电气故障（过载和/或短路）和机械问题（轴停止和随后的过电流）的影响。

## 定制保险丝

配电箱的几何形状越来越复杂，这促使我们开发出了带刀片的保险丝，这些保险丝可以拧紧，也可以铆接。在某些情况下，它们可以弯曲，在其他情况下，可以设计为不同尺寸和形状的夹子端子的阳对应件。



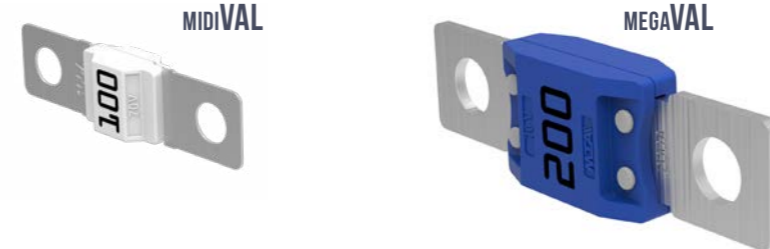
## BLADE FUSES 12/24 V 刀型保险丝 12/24 V



## BOLT-DOWN FUSES 12/24 V 螺栓式保险丝 12/24 V



## BOLT-DOWN FUSES 48 V 螺栓式保险丝 48 V



## BLADE FUSES 12/24 V 刀型保险丝 12/24 V

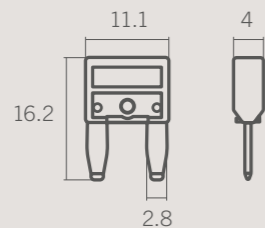


### MINI VAL®

Tin plated zinc alloy  
镀锡锌合金

2 A	Grey 灰色
3 A	Violet 紫色
4 A	Pink 粉色
5 A	Beige 米色
7.5 A	Brown 棕色
10 A	Red 红色
15 A	Blue 蓝色
20 A	Yellow 黄色
25 A	White 白色
30 A	Green 绿色

Scale 1:1 size,  
dimensions in mm  
比例尺 1:1,  
尺寸单位为 mm

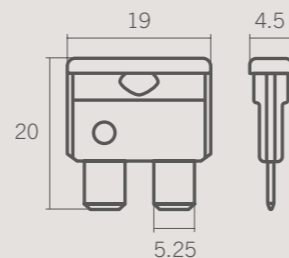


### UNI VAL®

Tin plated zinc alloy  
镀锡锌合金

1 A	Black 黑色
2 A	Grey 灰色
3 A	Violet 紫色
4 A	Pink 粉色
5 A	Beige 米色
7.5 A	Brown 棕色
10 A	Red 红色
15 A	Blue 蓝色
20 A	Yellow 黄色
25 A	White 白色
30 A	Green 绿色
40 A	Orange 橘色

Scale 1:1 size,  
dimensions in mm  
比例尺 1:1,  
尺寸单位为 mm



### MAXI COMPACT

The MaxiCompact range is meant as a substitute for MaxiVal and J-case fuses in the stated current range. They are smaller than the current solutions and accommodate thinner wires, thus enabling significant space and weight saving.

MaxiCompact系列旨在替代规定电流范围内的MaxiVal和J型保险丝。它们比目前的解决方案更小，可以容纳更细的电线，从而显著节省空间和重量。



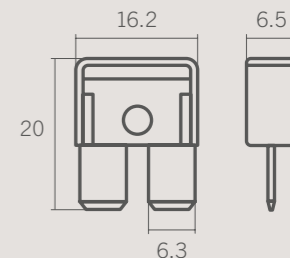
Tin plated zinc alloy  
镀锡锌合金

20 A	Yellow 黄色
25 A	White 自然色
30 A	Light green 浅绿色
35 A	Dark green 深绿色
40 A	Orange 橘色
50 A	Red 红色
60 A	Blue 蓝色

Silver plated copper  
镀银铜

25 A	White 自然色
30 A	Light green 浅绿色
35 A	Dark green 深绿色
40 A	Orange 橘色
50 A	Red 红色
60 A	Blue 蓝色

Scale 1:1 size,  
dimensions in mm  
比例尺 1:1,  
尺寸单位为 mm



## BLADE FUSES 12/24 V 刀型保险丝 12/24 V

## BLADE FUSES 12/24 V 刀型保险丝 12/24 V



### M8COMPACT®

The M8Compact range combines the typical high-current performance of MaxiVal fuses, which it is meant to substitute, but requires 46% less space. The concept is the same adopted for the MaxiCompact range, with smaller tolerance ranges and higher self-heating performance.

M8Compact 系列旨在取代 MaxiVal, 在结合了 MaxiVal 保险丝典型高电流性能的前提下更可节省 46% 的空间。其设计理念与 MaxiCompact 系列相同, 但具有更小的容差范围和更高的自加热性能。

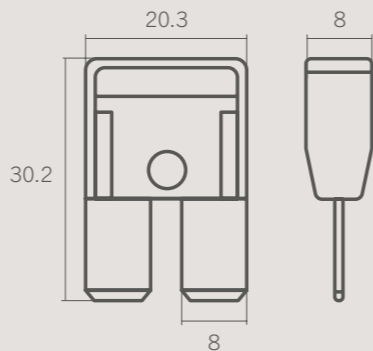
Tin plated zinc alloy  
镀锡锌合金

30 A		Light green 小麦灰
35 A		Dark green 深绿色
40 A		Orange 橘色
50 A		Red 红色
60 A		Blue 蓝色
70 A		Brown 棕色
80 A		Black 黑色

Silver plated copper  
镀银铜

30 A		Light green 小麦灰
40 A		Orange 橘色
50 A		Red 红色
60 A		Blue 蓝色
70 A		Brown 棕色
80 A		Black 黑色
100 A		Violet 紫色

Scale 1:1 size, dimensions in mm  
比例尺 1:1, 尺寸单位为 mm



## BLADE FUSES 12/24 V 刀型保险丝 12/24 V



### MAXIVAL®

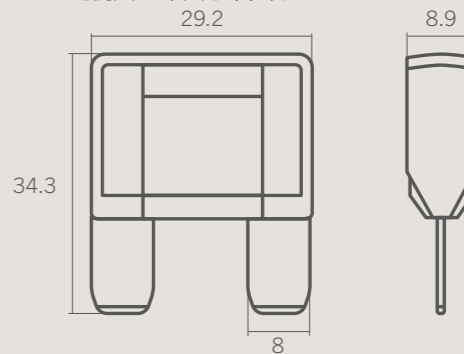
Tin plated zinc alloy  
镀锡锌合金

20 A		Yellow 黄色
30 A		Green 绿色
40 A		Orange 橘色
50 A		Red 红色
60 A		Blue 蓝色
70 A		Beige 米色
80 A		White 白色
100 A		Violet 紫色

Silver plated zinc alloy  
镀银锌合金

40 A		Orange 橘色
50 A		Red 红色
60 A		Blue 蓝色

Scale 1:1 size, dimensions in mm  
比例尺 1:1, 尺寸单位为 mm



## BOLT-DOWN FUSES 12/24 V 螺栓式保险丝 12/24 V



### MIDI VAL®

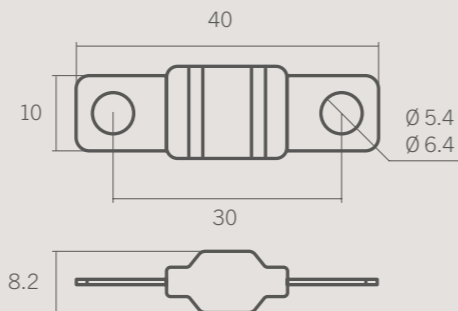
Tin plated zinc alloy  
M5 bolts available  
镀锡锌合金 M5螺栓可用

30 A	Orange 橘色
40 A	Green 绿色
50 A	Red 红色
60 A	Yellow 黄色
70 A	Brown 棕色
80 A	White 白色
100 A	Blue 蓝色
125 A	Pink 粉色

Tin plated copper  
M5 or M6 bolts available  
镀锡铜 提供M5或M6螺栓

30 A	Orange 橘色
40 A	Green 绿色
50 A	Red 红色
60 A	Yellow 黄色
70 A	Brown 棕色
80 A	White 白色
100 A	Blue 蓝色
125 A	Pink 粉色
150 A	Grey 灰色
175 A	Light brown 浅棕色
200 A	Violet 紫色

Scale 1:1 size, dimensions in mm  
比例尺 1:1, 尺寸单位为 mm



## BOLT-DOWN FUSES 12/24 V 螺栓式保险丝 12/24 V



### MEGA COMPACT

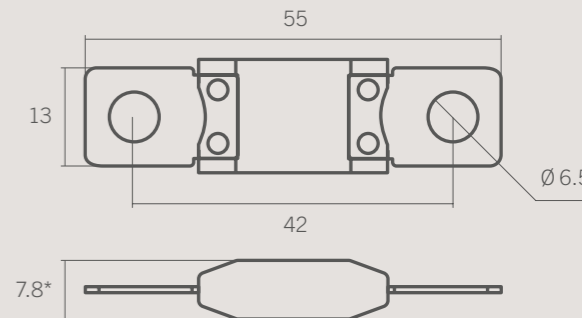
If compared to the MegaVal, the MegaCompact allows for a reduction in area and volume of about 30%.

与 MegaVal 相比, MegaCompact 使面积和体积减小了 30%。

Tin plated copper  
镀锡铜

80 A	Red 红色
100 A	Yellow 黄色
125 A	Green 绿色
150 A	Orange 橘色
175 A	White 白色
200 A	Blue 蓝色
225 A	Light brown 浅棕色
250 A	Pink 粉色
300 A	Grey 灰色
CAL.5	Black 黑色

Scale 1:1 size, dimensions in mm  
比例尺 1:1, 尺寸单位为 mm



\*200-300 A and CAL.5: 8.2 mm \*200-300 A 及 CAL.5: 8.2 mm



## BOLT-DOWN FUSES 12/24 V 螺栓式保险丝 12/24 V



### MEGAVAL®

Tin plated zinc alloy  
镀锡锌合金

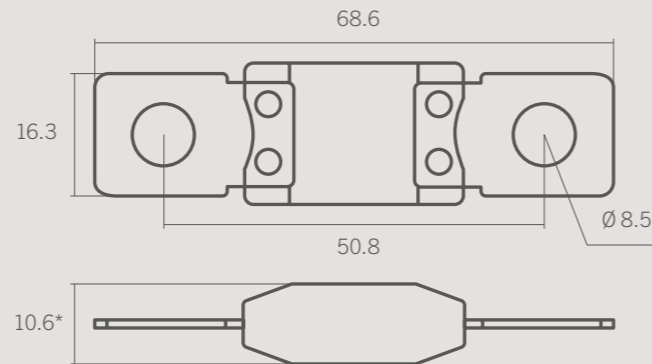
100 A	Yellow 黄色
125 A	Green 绿色
150 A	Orange 橘色
175 A	White 白色
200 A	Blue 蓝色
225 A	Light brown 浅棕色
250 A	Pink 粉色

Tin plated copper  
镀锡铜

100 A	Yellow 黄色
125 A	Green 绿色
150 A	Orange 橘色
175 A	White 白色
200 A	Blue 蓝色
225 A	Light brown 浅棕色
250 A	Pink 粉色
300 A	Grey 灰色
400 A	Violet 紫色
500 A	Brown 棕色

Scale 1:1 size, dimensions in mm  
MegaVal and PowerVal

比例尺 1:1, 尺寸单位为 mm  
MegaVal 和 PowerVal



\*MegaVal tin plated copper 100-175 A and PowerVal: 10.4 mm

\*MegaVal 镀锡铜 100-175 A 及 PowerVal: 10.4 mm

## BOLT-DOWN FUSES 12/24 V 螺栓式保险丝 12/24 V



### POWERVAL®

This range of fuses features the same shape and dimensions of MegaVal allowing easy interchangeability.

Their Ohm value, assessed and optimized, guarantees the lowest possible voltage drop on the line. They have high capacity to sustain heavy power surges, and an operating time curve to ensure efficient protection of the entire range of electrical malfunctions.

该系列保险丝具有与MegaVal相同的形状和尺寸, 便于互换。

经过评估和优化, 它们的欧姆值保证了线路上尽可能低的电压降。它们具有承受急剧增加大功率电流的高容量, 以及确保对整个电气故障范围进行有效保护的运行时间曲线。

Tin plated zinc alloy  
镀锡锌合金

CAL.1	Grey 灰色
CAL.2	Black 黑色

Tin plated copper  
镀锡铜

CAL.3	Red 红色
CAL.4	Brown 棕色
CAL.5	Wheat Grey 小麦灰

## BOLT-DOWN FUSES 48 V 螺栓式保险丝 48 V

### 48 V FUSES 48 V 保险丝

The 48 V rated voltage fuses have been developed to support the most energy-demanding systems of electric and hybrid vehicles. Thanks to specific technologies and enhanced performances, and according to international standards, they can operate up to 70 VDC.

48 V 额定电压保险丝已被开发用于支持电动和混合动力汽车中最耗电的系统。得益于特定的技术和增强的性能，并根据国际标准，它们可以运行高达70 VDC 的电压。

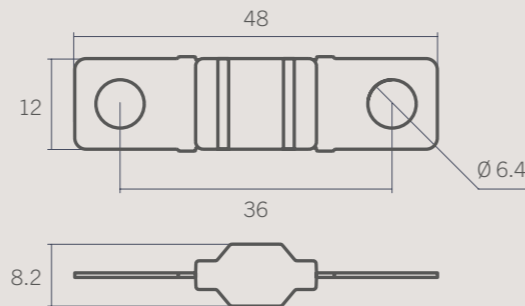
#### MIDI VAL®

Tin plated copper  
镀锡铜

100 A	White 白色
125 A	White 白色
150 A	White 白色
175 A	White 白色



Scale 1:1 size, dimensions in mm  
比例尺 1:1, 尺寸单位为 mm



## BOLT-DOWN FUSES 48 V 螺栓式保险丝 48 V

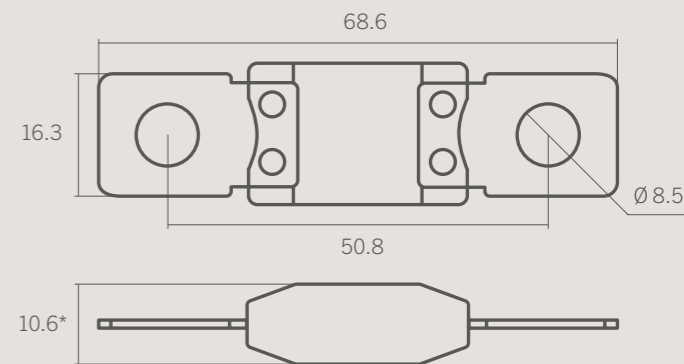
#### MEGA VAL®

Tin plated copper  
镀锡铜

100 A	Yellow 黄色
125 A	Green 绿色
150 A	Orange 橘色
175 A	White 白色
200 A	Blue 蓝色
225 A	Light brown 浅棕色
250 A	Pink 粉色
300 A	Grey 灰色
400 A	Violet 紫色
500 A	Brown 棕色



Scale 1:1 size, dimensions in mm  
比例尺 1:1, 尺寸单位为 mm



\*100-175 A: 10.4 mm





[www.mta.it](http://www.mta.it)



**AUTOMOTIVE FUSES**  
Version 1.3  
May 2024

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