刺破端子系列

MAG-MATE Series Terminals

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1. 简介 Interduction

本应用规格书介绍了我司刺破端子系列的产品适用导线、产品终端外壳设计尺寸、产品安装基准、产品压接指导。

This application specification introduces the product of the MAG-MATE series terminals, the applicable wires for the product,design dimensions of the product terminal shell, the product installation standard, and the product crimping guide.

2. 产品描述 Product specifications

每个接线端子都有一个前槽、一个后槽和四个倒刺，以确保端子在塑壳内固定到位。

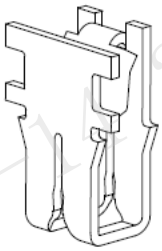
对于暴露在外界环境中的终端接口涂上一种特殊的防漆涂层，这种涂层可以防止聚酯型漆料附在接触表面，从而避免造成电气断路。

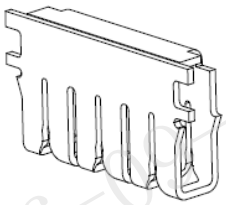
There is a front and back slot for each wire, and four locking barbs on each terminal to ensure retention in your Housing.

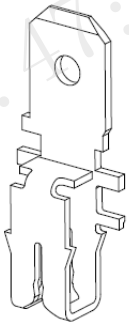
A special varnish resistant coating is available for application on terminal interfaces which are exposed to varnishing processes. This coating prevents polyester type varnishes from adhering to contact interface surfaces and causing electrical discontinuities.

本规范适用产品如下：

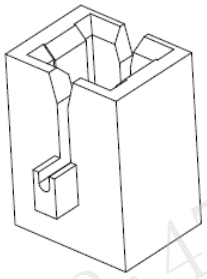
Applicable Products:



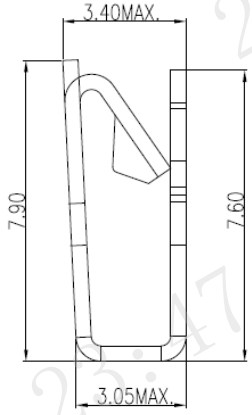




端子 TERMINAL



互配塑壳 HOUSING



端子尺寸
（具体见图纸）

图 1 Figure 1

3. 互配塑壳 Terminal Housing

单个或多个端子腔体外壳可设计为带隐藏式或外露式线端特征以及可控飞边线槽，以便在插入端子之前将线固定在外壳内。多个端子外壳可设计为有或无共用腔体。

所有外壳在一侧都必须有一个开口端槽，以便导线伸出。伸出的导线端部和导线支撑应由端子插入机的修边刀具修剪至与外壳齐平。见图 2

Single or multiple terminal cavity housings can be designed with a concealed or exposed wire end feature and a controlled flash wire slot to help retain the wire in the housing prior to insertion of the terminal. The multiple terminal housings can be designed with or without commoned cavities.See Figure 2

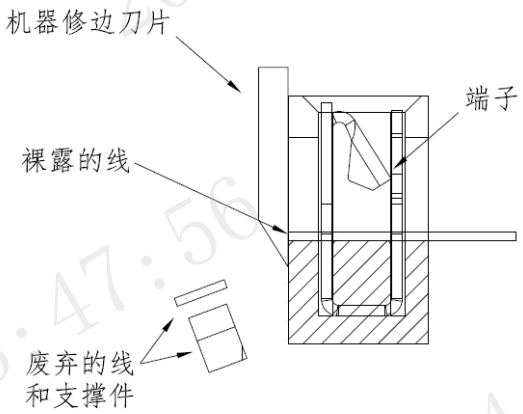


图 2 Figure 2

塑壳的外观设计将取决于客户需求。内部腔体设计必须符合图 3 提供的尺寸

The external desian of the housing will depend on your requirements. internal cavity designs must conform to the dimensions provided in Figure 3.

3.1 裸露线端的塑壳 Housing with Exposed Wire End

这种塑壳设计采用了金属丝支撑结构，其高度与砧座齐平，这样在剪断金属丝后，金属丝的末端就能露出来。

This housing design has a wire support that is even with the anvil to permit the wire end to be exposed after the wire is trimmed.

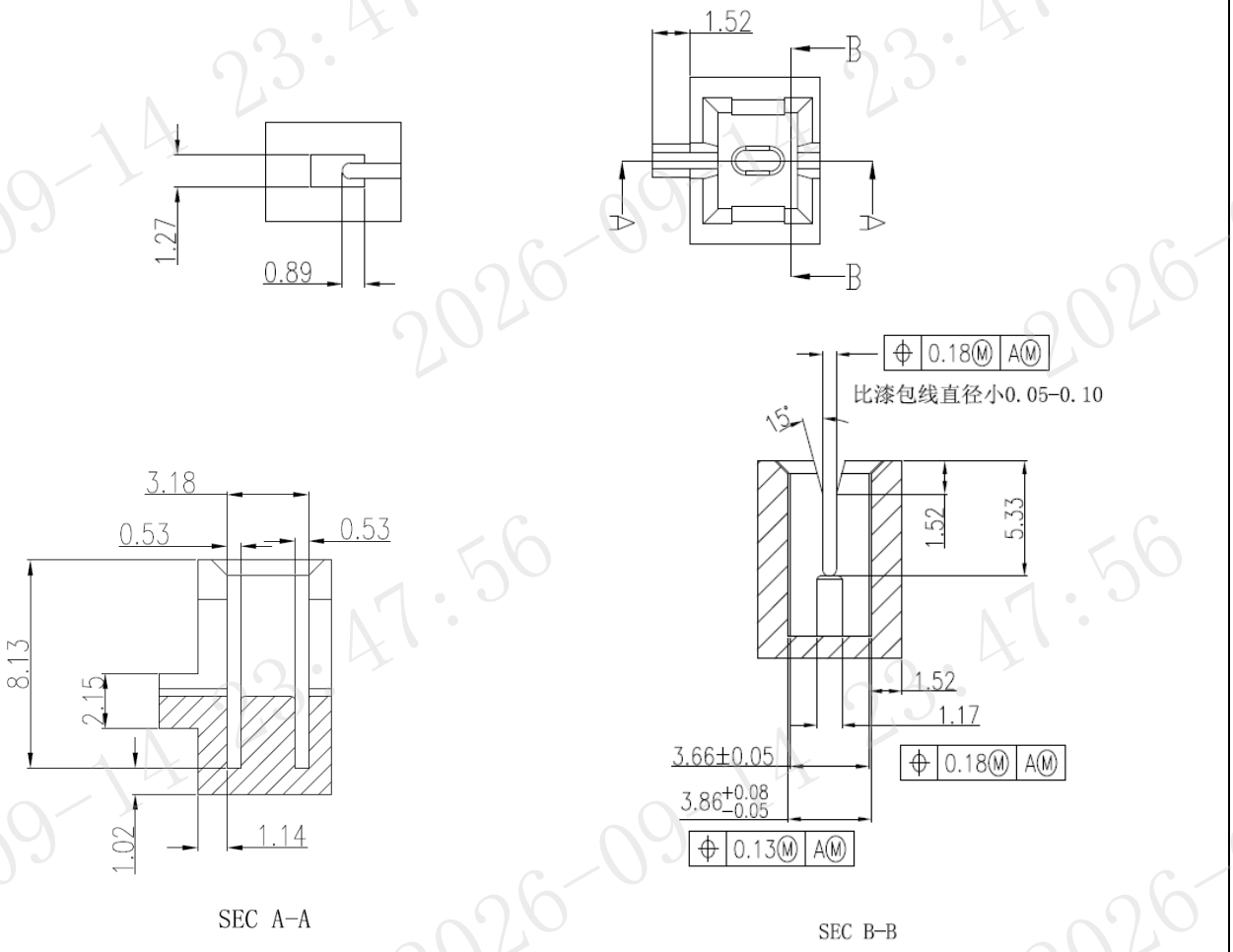


图 3 Figure 3

3.2 隐藏线端的塑壳 Housing with Concealed Wire End

这种塑壳设计在砧座上方设有金属丝支撑结构，这样在终端完全就位之前就可以对金属丝进行切割。当终端就位后，它会将金属丝末端拉下并将其隐藏在金属丝支撑结构后面的凹槽中。图 3 中给出的所有暴露金属丝末端的腔体尺寸均适用，但图 4 中的尺寸除外。

This housing design has a wire support above the anvil that allows the wire to be cut before the terminal is fully seated. As the terminal is seated, it pulls the wire end down and conceals it in the pocket behind the wire support. All the dimensions given for the exposed wire end cavity in Figure 3 apply, except for those that appear in Figure 4.

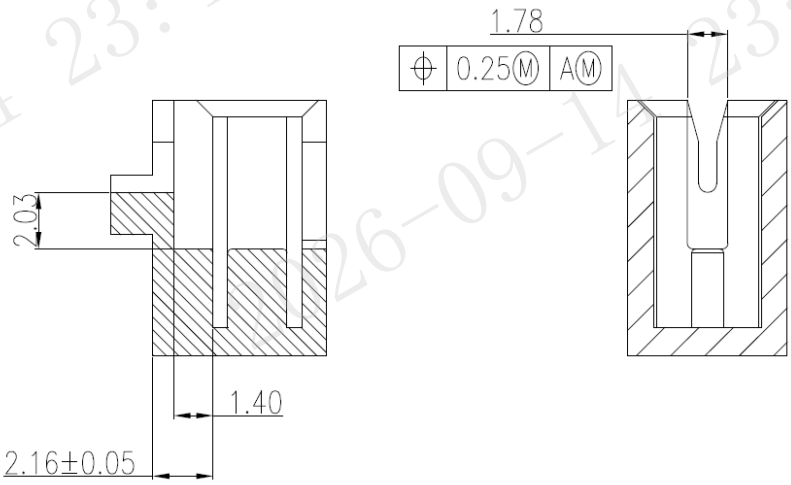


图 4 Figure 4

3.3 共用多腔的塑壳 Commoned Multiple Cavity Housings

多腔外壳可制成露出或隐藏线端以及有或无受控飞边的线槽，其尺寸如图 3 和图 4 所示。它们也可以通过在腔体之间使用较短的壁来适应共用端子，见图 5。

Multiple cavity housings can be made with exposed or concealed wire ends and wire slots with or without controlled flash as defined by the dimensions in Fiqure 3 and Fiqure 4. They can also be made to accommodate commoned terminals by using a shorter wall between cavities. See Figure 5.

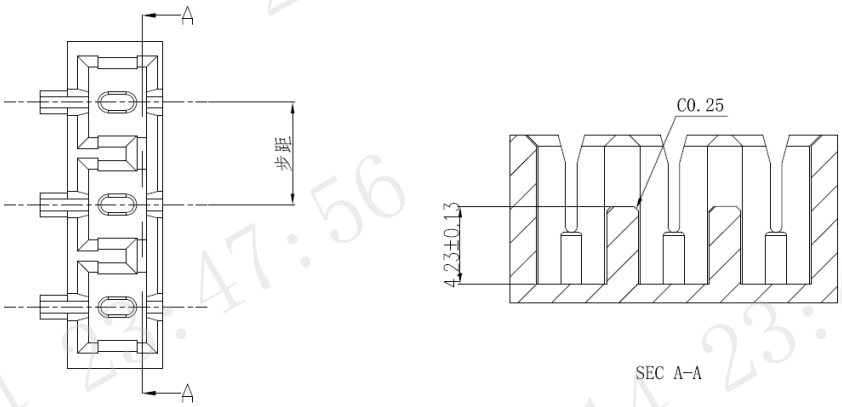


图 5 Figure 5

4. 产品压接指导 Product Crimp guide

4.1 线路布局 Wire Placement

从磁场组件、线圈或线轴上引出的电磁线在插入接线端之前，必须预先放置在塑壳内。导线必须预先插入腔体的槽中，使其与从腔体底部中间伸出的顶砧接触。导线可能会从顶砧反弹，但必须保持在腔体的狭窄槽内；不能停在槽的引线区域或腔体开口之外。绕组与接线盒之间的余量必须充足。这是为了防止在插入接线端时拉伸磁性导线。见图 6。

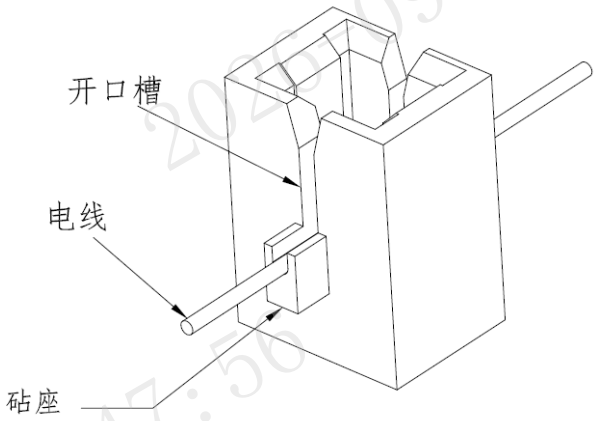


图 6 Figure 6

4.2 端子压接深度 Terminal Insertion Depth

端子应插入塑壳中，直至导线位于图 7 所示的尺寸范围内。

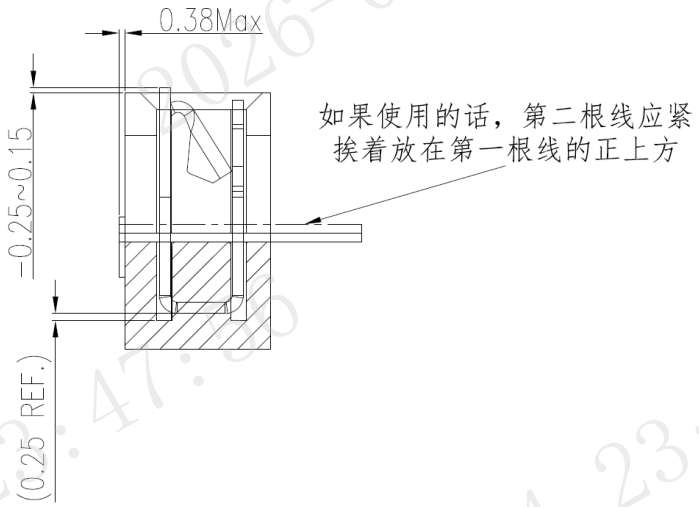


图 7 Figure 7

5. 3D 图示　3D Illustration

下面的图示展示了该产品的典型应用。生产人员应参照此图示来确保正确使用该产品。如果应用方式不正确，可以利用本规范前几页的信息以及随产品或工具配套的使用说明来进行检查。

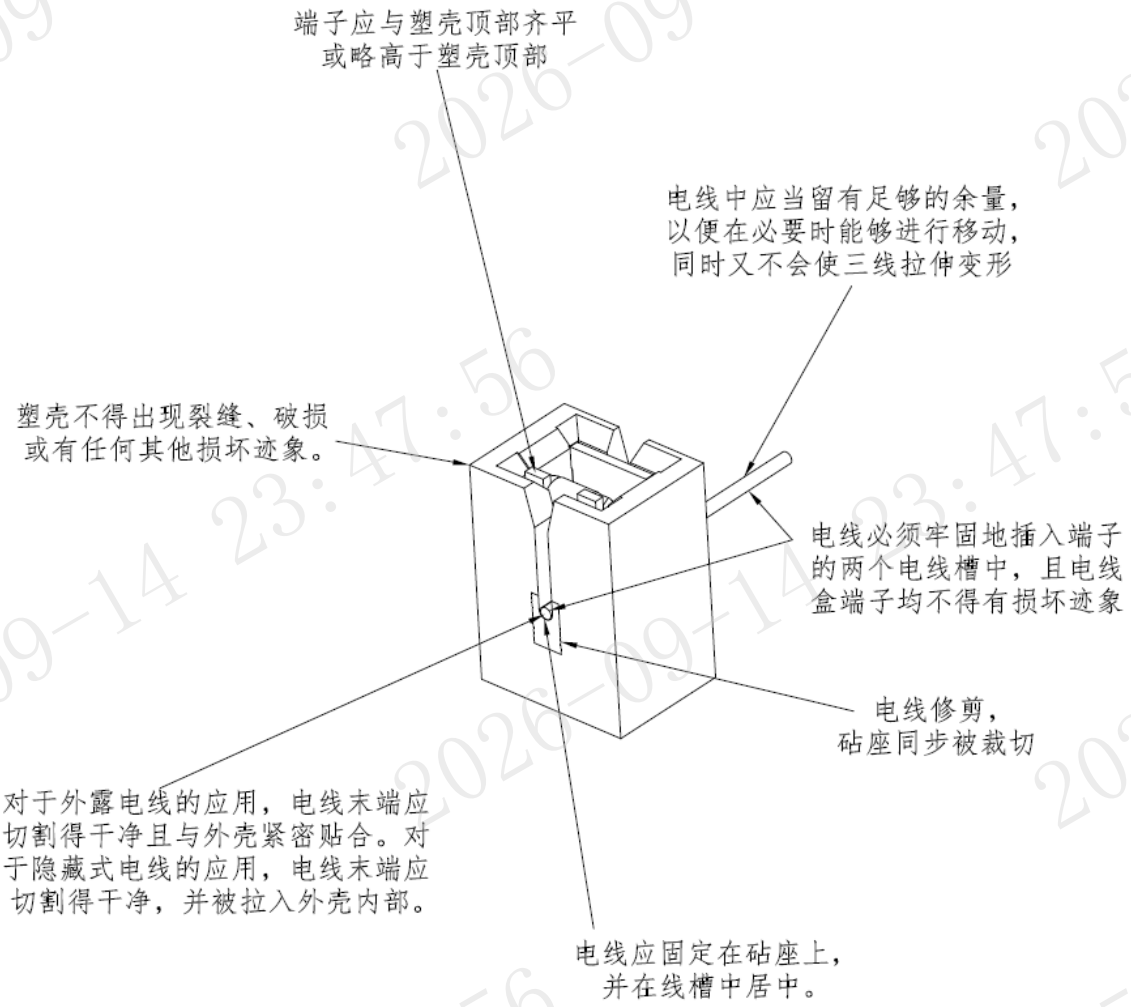
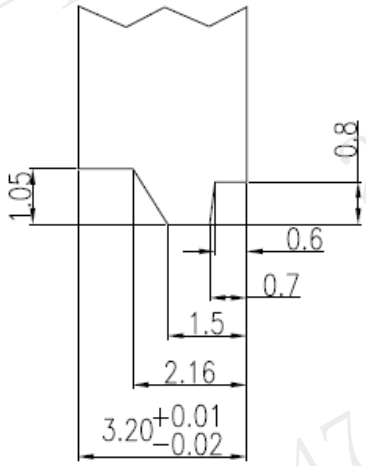
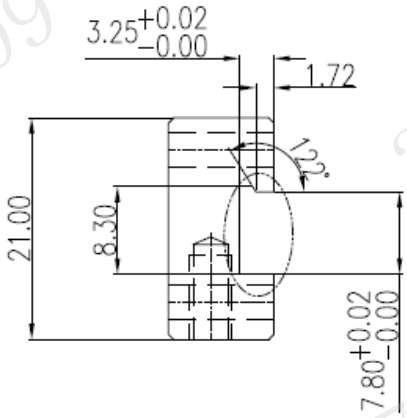


图 8 Figure 8

6. 压接设备尺寸参考 Reference dimensions for crimping equipment



压接设备压入头
的尺寸参考



压接设备料槽的
尺寸参考