

MTA .156 Quad Connector
NOTE


All numerical values are in metric units [with U.S. customary units in brackets]. Dimensions are in millimeters [and inches]. Unless otherwise specified, dimensions have a tolerance of ± 0.13 [$\pm .005$] and angles have a tolerance of $\pm 2^\circ$. Figures and illustrations are for identification only and are not drawn to scale.

1. INTRODUCTION

This specification covers the requirements for application of MTA .156 Quad connectors. These requirements are applicable to hand or automatic machine application tools. These connectors are available in 2 through 12 positions and are terminated to wire sizes 18, 20, and 22 AWG. The connector provides an interconnection between wires and 1.14-mm [.045-in.] square posts mounted on printed circuit (pc) boards.

When corresponding with personnel, use the terminology provided in this specification to facilitate your inquiries for information. Basic terms and features of this product are provided in Figure 1.

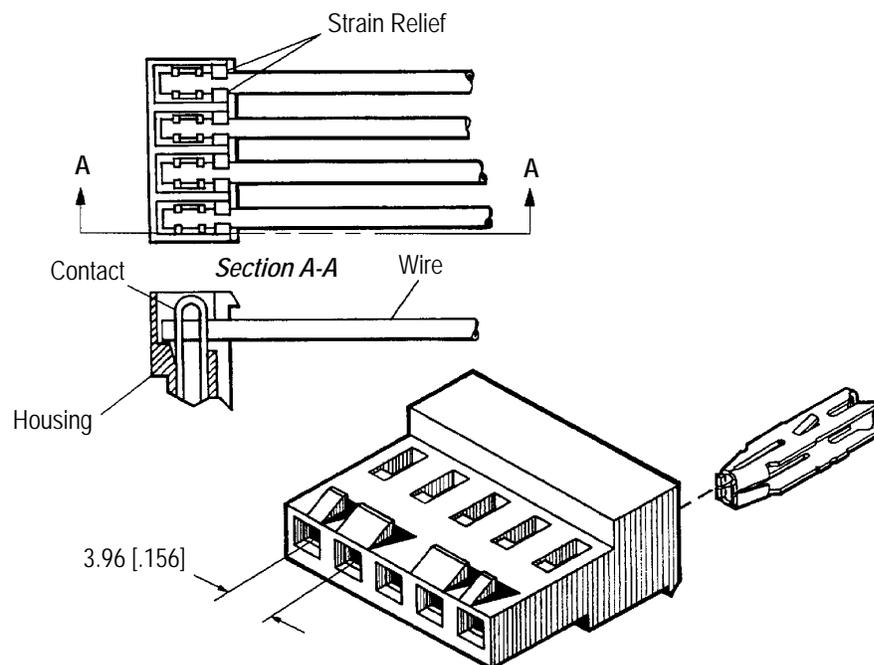


Figure 1

2. REFERENCE MATERIAL
2.1. Revision Summary

- Changed company logo

2.2. Customer Assistance

Reference Product Base Part Number 644329 and Product Code 1521 are representative numbers of MTA Quad connectors. Use of these numbers will identify the product line and expedite your inquiries through a service network established to help you obtain product and tooling information. Such information can be obtained through a local Representative or, after purchase, by calling PRODUCT INFORMATION at the phone number at the bottom of this page.

2.3. Drawings

Customer Drawings for product part numbers are available from the service network. If there is a conflict between the information contained in the Customer Drawings and this specification or with any other technical documentation supplied, call PRODUCT INFORMATION at the phone number at the bottom of this page.

2.4. Specifications

Product Specification 108-1219 covers product performance requirements and test data relating to these connectors.

2.5. Instructional Material

Instruction Sheet 408-9450 provides information on the use and maintenance of the terminating head, which can be used in a manual handle assembly (408-6790), pneumatic handle assembly (408-6789), or the bench-mount power assembly (408-9393).

3. REQUIREMENTS

3.1. Wire

A. Wire Selection

The contacts will accept wire sizes 18, 20, and 22 AWG tin-plated solid, concentric fused stranded, and concentric stranded wire with standard PVC thermoplastic insulation having a maximum insulation diameter as indicated in Figure 2.

Underwriters Laboratories (UL) style No. 1061 and No. 1007 discreet wires are approved in 18 AWG (7, 16, and 19 stranded), 20 AWG (7, 10, and 19 stranded), and 22 AWG (7 and 19 stranded).

Refer to Figure 2 for connector assembly and wire size compatibility.

CONNECTOR ASSEMBLY PART NUMBER	WIRE		
	SIZE (AWG)	INSULATION DIAMETER (Max)	
		INDIVIDUAL TERMINATION	MASS TERMINATION
644329	18	2.41 [.095]	1.78 [.070]
644370	20		
644371	22		

Figure 2

B. Wire Preparation

The contacts feature insulation displacement terminating slots which do not require any wire preparation.

3.2. Contact

A. Termination Requirements

After termination, wire shall meet the requirements specified in Figure 3.

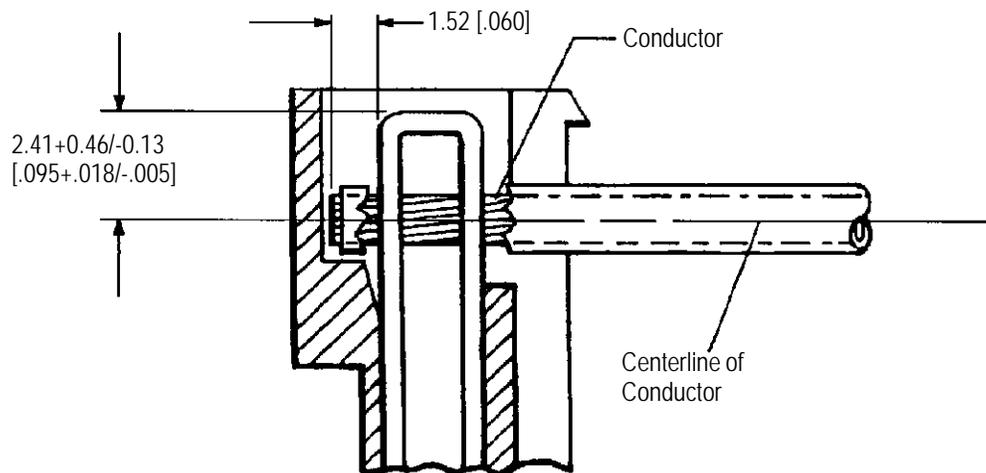


Figure 3

B. Contact Damage

There shall be no evidence of physical damage or distortion to any portion of the contact.

C. Broken Strands

There shall be no broken strands in the conductor.

D. Exposed Conductor

Exposed conductors shall not exceed the limits specified in Figure 4.

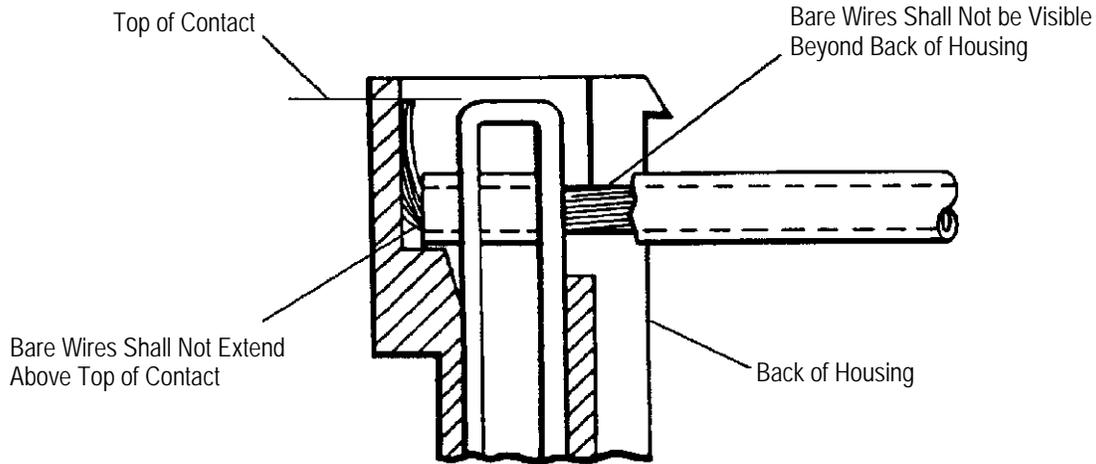


Figure 4

E. Conductor Insulation

Conductor insulation shall be contained within the confines of the insulation strain relief as indicated in Figure 5.

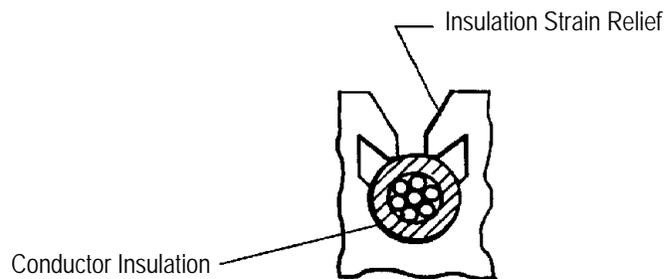


Figure 5

3.3. Housing

A. Housing Damage

There shall be no cracks, breaks, or other visible damage to the housing due to wire termination.

B. Skiving

Peeling of plastic on the inside wall of the housing cavity is permissible provided that conditions specified in Paragraph 3.3.A are met.

4. QUALIFICATIONS

No qualifying support was given for MTA .156 Quad connectors at the time of publication of this document.

5. TOOLING

No tooling is required for the application of this product.

6. VISUAL AID

The illustration below shows a typical application of this product. This illustration should be used by production personnel to ensure a correctly applied product. Applications which DO NOT appear correct should be inspected using the information in the preceding pages of this specification and in the instructional material shipped with the product or tooling.

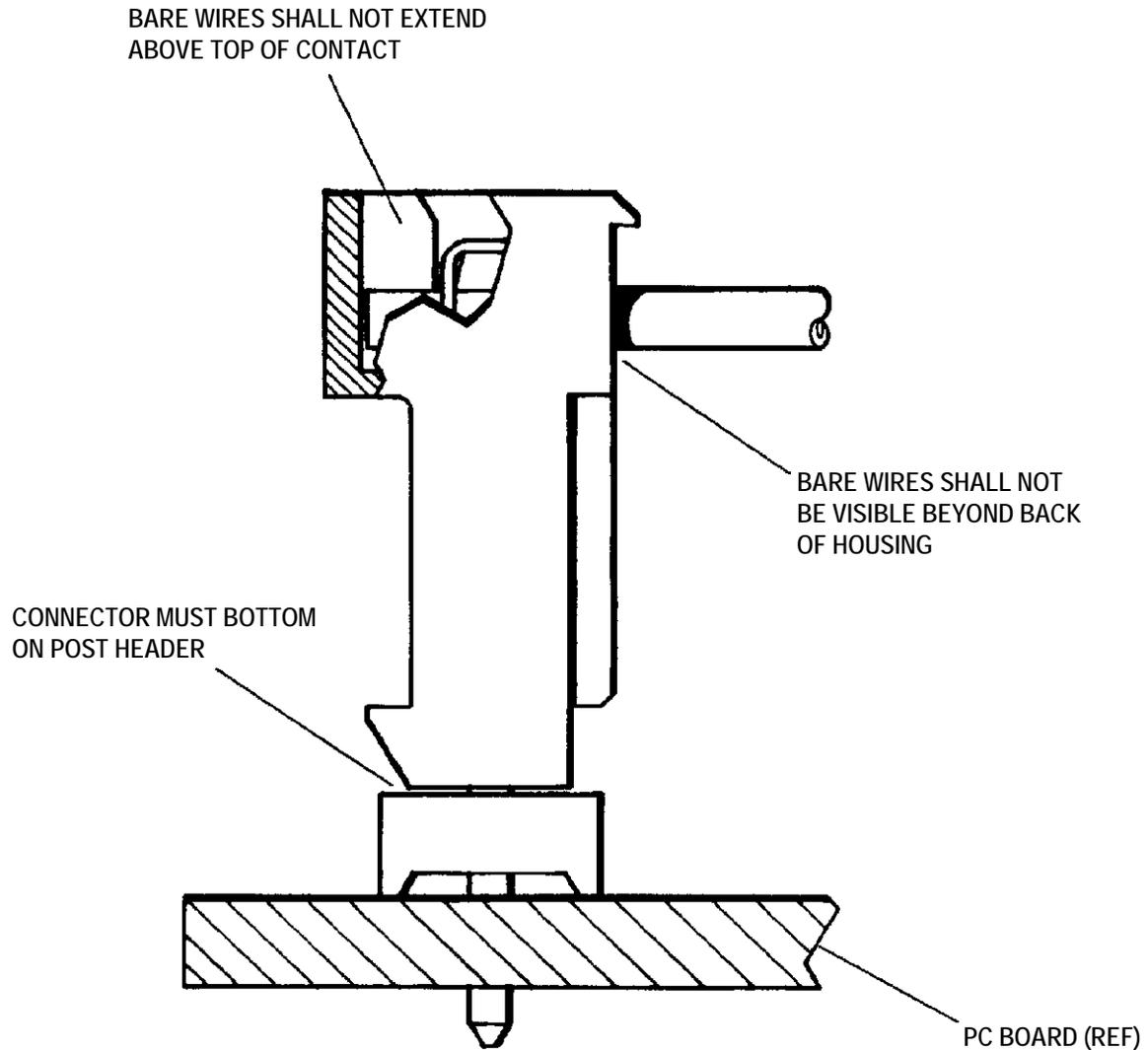


FIGURE 6. VISUAL AID