

## PRODUCT SELECTION GUIDE

A



**Contacts**  
A-2



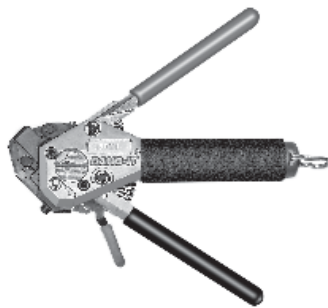
**Crimp Tools**  
A-6



**Insertion/Extraction Tools**  
A-8



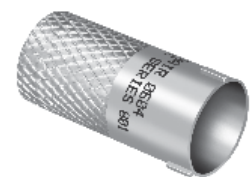
**Contact Retention  
Tester**  
A-8



**BAND-IT® Tool**  
A-9



**Jam Nut Tightening  
Tools**  
A-10



**Connector Holding  
Tools**  
A-10

### About Mil Spec Contacts For Series 80 Connectors

*Aerospace Standard AS39029* (SAE) defines the design, dimensions and performance of contacts used in aerospace grade electrical connectors. The "*general specification*" covers a variety of contacts including thermocouple, hermetic, coaxial and triaxial types.

The "*slash sheets*" contain dimensions and other information for specific types of contacts. For example, pin contacts used in MIL-C-38999 connectors are specified in AS39029/58.

Each contact is assigned a *Basic Identification Number (BIN)*, a non-significant three digit code corresponding to the color code on the contacts.

A *Qualified Products List (QPL)* identifies those manufacturers whose products have been verified to meet all requirements.

*Series 80 Size #23 contacts* conform to the AS39029 requirements, but are not covered by a slash sheet. Size #16 and size #12 contacts are standard "QPL" contacts used in MIL-DTL-38999 connectors.

*Coaxial contacts* are covered by AS39029. These contacts are not recommended for high frequency applications. Note 6.1.2 states "Type D contacts are coaxial contacts...to shield the circuit from unwanted interference (RFI and EMI). These contacts are not impedance matched and, therefore, are not recommended for RF use." A matched impedance 50 ohm coaxial contact is available but is not directly covered by the AS39029 specification.

### About Mil Spec Crimp Tools

Series 80 signal, power and coaxial contacts are crimped to wire using mil spec crimpers. *Military Specification MIL-DTL-22520* provides the aerospace/defense industry with a common set of rugged, reliable hand crimp tools. This specification controls the voltage drop and tensile strength of crimp terminations.

*Before ordering, check to see if you might already have these tools!* We have listed the military part number and the Daniels part number. Daniels Manufacturing Corporation is the leading manufacturer of these tools. The size 23 positioner part number 809-005 is not a standard tool. Chances are, you will need this positioner.

*Calibration:* gage pins are available for checking crimp tool calibration. Tools should be checked periodically. If a tool needs calibration, the mil spec requires calibration to be performed by the manufacturer or a certified ANSI-Z540.1 agency. Gaging and calibration information is supplied in the box with the tool.