

**RELIABLE MATING AND DEMATING, APPLICATION SPECIFIC MOUNTING, & KEEPING IT ALL TOGETHER DURING THE “SHAKE, RATTLE AND ROLL”**

There are many options for mating and mounting Micro-D connectors. We will discuss them here and make recommendations based on our application experiences.

**Basic concepts:**

1. Micro-D hardware serves up to three purposes:
  - a. The jacking action insures that the connectors are fully mated under proper alignment.
  - b. The mated jackscrew and post keep the connectors mated during service.
  - c. The jackposts are utilized to achieve various panel mounting schemes as appropriate to a given application.
2. For any Micro-D connector with more than 25 contacts, we encourage the use of hardware to facilitate ease of mating and to insure proper mating alignment.
3. All hardware is sold as a set of two of each component. When you order hardware, order one set per each connector.

**M83513 Hardware**

Applications that require mil spec connectors will also require mil spec hardware that is covered by M83513/05. Information on these jackscrews and jackposts is located on the M83513/05 datasheet in this section. Mil spec hardware must always be ordered as a separate line item from the mil spec connector. There are so many combinations of layouts, terminations and hardware that the part numbers in the government’s database would have been extremely cumbersome.



The jackscrews are shipped with a retention ring for customer installation and the jackposts come with a nut and lockwasher. If you would like Cristek to install the hardware on your mil spec connector, you may request this, but they must be billed and certified as separate line items.



Customer feedback has indicated some concern about the loose clips on the jackscrews. Particularly on the high contact count layouts there have been reported instances of the clips coming loose during mating/demating. If you have this concern we can solve it by referring you to our MOTS non-removable hardware depicted on the MICRO HARDWARE datasheets in this section.

**CMD/CMA Hardware**

You may order the mil spec jackscrews referred to above installed on your MOTS connector if you wish to maintain maximum hardware reparability and flexibility; however, if you would like to increase the reliability of your system the permanently swaged hardware is the right selection for you to make. Refer to the CMD datasheet in the MOTS section for ordering information.





**JPK Jackpost Kits**

Micro-D connectors that are to be mounted on or through a panel will require a jackpost kit. For mounting options and panel cut outs please refer to the appropriate sheet in this section of the catalog. Jackpost kits are available to accommodate a wide variety of panel thicknesses and ordering information is shown on the JPK data sheet. Cristek has also made several specialized versions that enable the user to have a bit more slop in panel cut out tolerances. Contact the factory for further information.



**Float Mount Hardware**

Most CMD connectors can be supplied with float mount hardware as required. See CMD datasheet for details and contact the factory if you don't see what you need.

**Hardware for PCB Mounted Micro-D Connectors**

Connectors designed for printed circuit boards present a special hardware challenge because they require hardware to mount them to the board as well as to mate. Sometimes they also require the jackpost to panel mount the connector also. The standard configuration includes a permanently installed jackpost but most parts can be supplied with a Helicoil to facilitate multiple tasking of the post. If you don't see the configuration you want in the catalog contact us because we have probably already done it for someone else.



**Polarizing Hardware**

For applications with multiple mating possibilities Cristek offers several different polarizing hardware approaches to prevent connections that could be damaging or hazardous. This unique hardware system will yield you many more mating combinations than you could ever possibly need. There is at least one polarizing approach available on every Micro-D style connector we offer. Contact the factory for further information.



**Micro D Savers**

Cristek Micro D connectors are fabricated to withstand hundreds of mating cycles; however, some customers need the added control and protection of a connector saver. These are available in both metal and plastic on the MSAV and PSAV data sheets. Cristek will make a connector saver to fit any connector it manufactures. Consult the factory for further details



**Backshell Hardware**

When EMI performance for your cabling is critical you may choose from one of Cristek's standard BSM series backshells or send us your EMI leakage, cable bundle and exit requirements so we can design one to fit your application.

**SEE THE MTST DATA SHEET TO LEARN ABOUT OUR NEW OFF THE SHELF TEST PROBE SPECIFICALLY DESIGNED FOR USE WITH MICRO CONNECTORS!**