



Announcements

The Fall JSWAG/JFOWG Technical Interchange Meeting is tentatively scheduled for August 16-18, 2016 in Nashville, TN. For more information as it becomes available, please visit the JSWAG website.

Resources

- Aircraft Wiring Systems Awareness DVD- Defense Imagery PIN #806881
- Fiber Optic Awareness DVD- Defense Imagery PIN #806707
- Joint Services Wiring Manual-Maintenance Techniques DVD- Defense Imagery PIN #806994
- Heatless Splice Application Video- <https://www.youtube.com/watch?v=Op1YMaz454E&feature=youtu.be>
- MIL-HDBK-522- Guidelines for Inspection of Aircraft Wiring Interconnect Systems <http://quicksearch.dla.mil>
- MIL-HDBK-525- Electrical Wiring Interconnect System (EWIS) Integrity- <http://quicksearch.dla.mil>
- Need help locating information on connectors, contacts or accessories? If so, email us at jswag@navy.mil.

Newsletter Contact

JSWAG Coordinator
jswag@navy.mil

MIL-HDBK-1646: The Maintainer's Guidance to Electrical Contacts and Connectors

Do you wish you had clear and organized lecture notes? How about correct answers or a cheat sheet? If any of these questions appeal to you; you may want to consider taking a sneak peek at the new and upcoming MIL-HDBK-1646, the maintainer's guidance to the intricate world of electrical contacts and connectors.

The MIL-HDBK-1646 serves as the ultimate cheat sheet for M39029 contacts and M39012 connectors, which are commonly used in military applications. It is approved for use by all of the Department of Defense. At its core, the MIL-HDBK-1646 is a thorough and complete compilation of hundreds of detail specification sheets found behind every commonly used connector, contact, and tool. The handbook provides the maintainer with guidance essentials for best practices and nothing more. With this handbook, you will be able to quickly identify the proper installation/removal contact extraction, crimp tool, positioner and setting information tools.

Although it is certainly not your average 1-page, 6-sided cheat sheet, the MIL-HDBK-1646 is designed for quick navigation. There are four appendices of interest: A-I for M39029 power contacts, B-I and B-II for M39029 shielded contacts, and C-I for M39012 connectors. Simply go to the appropriate appendix, look down the left-hand column for the desired connector/contact, and then look across for relevant data (see Figures 1, 2, and 3). There, you will find data on compatibility, identification, crimp, installation, and more.

As with all military handbooks, MIL-HDBK-1646 serves only as guidance/reference and cannot be cited as a requirement. Detail specifications sheets are constantly being updated and new data might not be captured in the latest revision. Keep in mind, not all possible electrical wiring interconnect systems connector or configurations have been addressed. If conflicting, the aircraft /platform-specific maintenance manual and/or specifications will take precedence. Please report any discrepancies found in the handbook to JSWAG at jswag@navy.mil.

Handbook from page 1

Empower yourselves with this tool to deliver solid performance with convenience, confidence, and efficiency. The MIL-HDBK-1646 is not mandatory reading, but it certainly provides good and sound guidance for the maintainer and makes the work as easy as possible – it is no surprise that 1646 can be translated to “1 OHM!” Take the path of least resistance and download this free online resource from the ASSIST website at <http://quicksearch.dla.mil/>.

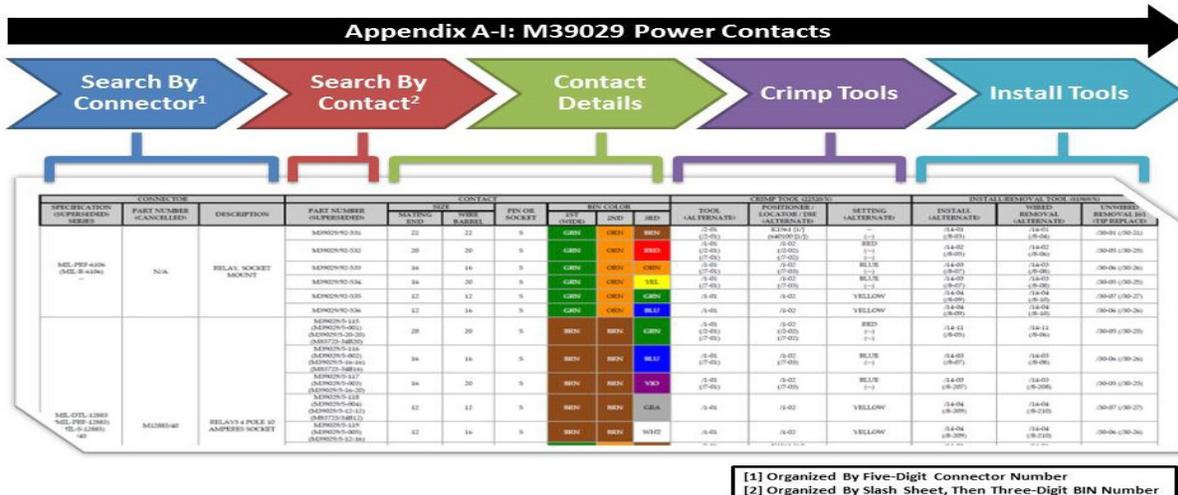


Figure 1: Appendix A-I (M39029 Power Contacts)

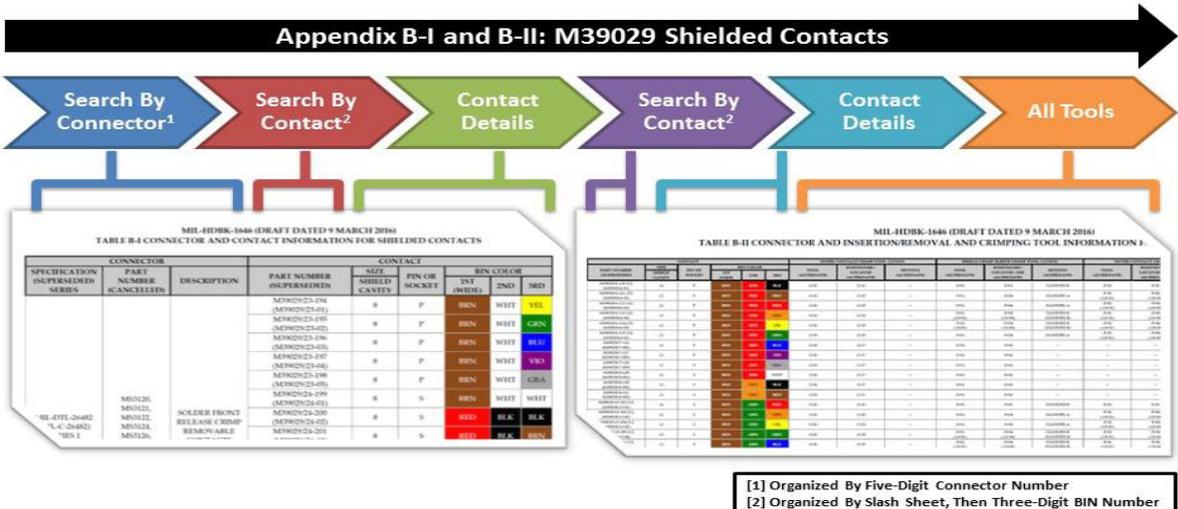


Figure 2: Appendix B-I and B-II (M39029 Shielded Contacts)

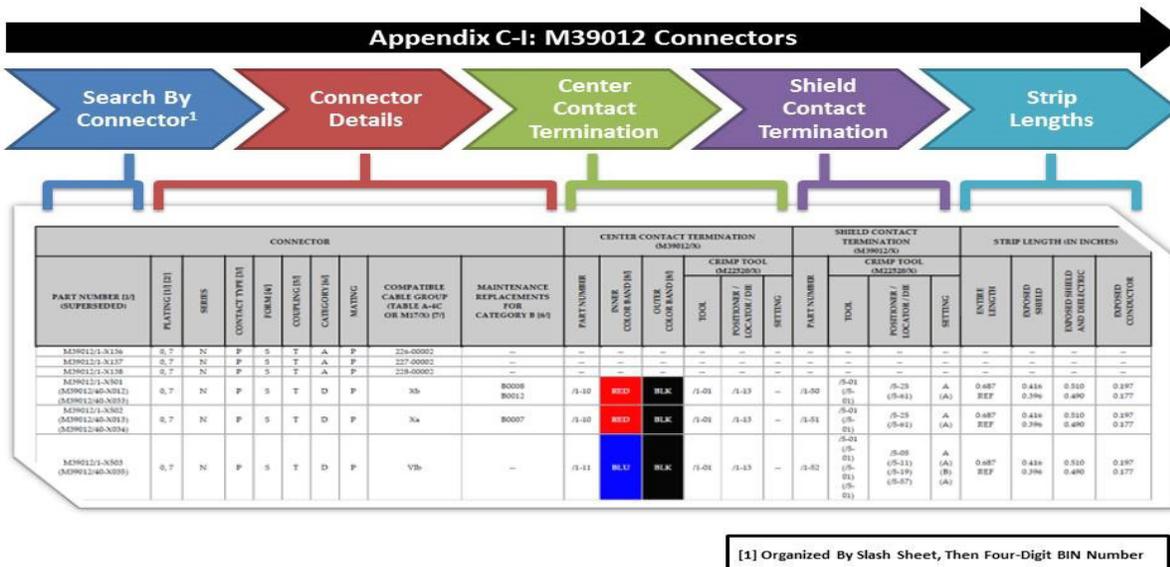


Figure 3: Appendix C-I (M39012 Connectors)

