

# **Mil-Spec Connectors & Accessories**



## **DEUTSCH ECD**

### **Defense / Aerospace Operations . . .**

*is the world's premier manufacturer of electrical interconnection devices for use in defense, aerospace, and commercial applications. Whether you need an interconnection device for a commercial or military aircraft, missile, tank, truck transmission or a host of other applications, Deutsch has the solution you're looking for.*

#### **Deutsch ECD Defense Aerospace Operations**

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### *High Density Bayonet-locking MIL-C-81511 Connector*



#### DESIGN FEATURES

The Deutsch 815 Series features an Individual Contact Release system (ICR), which permits each crimp-type contact to be individually inserted, released and extracted from the rear of the connector in the coupled or uncoupled position. Also, during contact insertion, there is a positive feel when the contact reaches the locked position.

The low contact insertion force inherent in the ICR system can reduce assembly time tremendously, since in most cases contacts can be inserted into the connector without the use of an insertion tool.

Savings in rework costs are achieved because contacts can be extracted without uncoupling the connector. This feature also does away with the need to insert tools from the connector front, thereby eliminating the possibility of damaging the critical interfacial sealing areas.

The fully bonded insert construction provides full dielectric separation between contacts. This also prevents "cross-pinning," meaning that once the contact enters the contact cavity of the plastic insert, it cannot cross over into an adjacent cavity.

The Deutsch 815 Series connectors are intermateable and intermountable with earlier versions of MIL-C-81511. However, the shorter contacts of the Deutsch connector should not be intermixed with those of Series 1 and 2 connectors.

The scoop-proof feature of these connectors prevents damage to pin contacts if the mating half of the connector is accidentally wiped across the connector front. The 815 connectors are available in two versions: the long shell version (100% scoop-proof) and the short shell version (50% scoop-proof). The short shell version will prevent scooping damage providing the pin contacts are used in the receptacle half of the connector. The long shell version will prevent scooping damage with the pins used in either the plug or receptacle.

#### ADVANTAGES

- Prevention of inadvertent contact release
- Individual contact sealing
- Prevention against bent pins or sockets
- Simplified assembly procedures
- Reduced assembly and rework costs
- Higher temperature resistance
- Low profile
- Environmental sealing
- RFI-EMI grounding fingers

*This information is for reference only. Consult factory for envelope drawings, updated specifications, and additions to the product line.*



# Insert Arrangements

**A01(0804)**  
4 NO. 23  
CONTACTS



**B03(1003)**  
3 NO. 16  
CONTACTS



**B02(1005)**  
5 NO. 20  
CONTACTS



**B01(1012)**  
12 NO. 23  
CONTACTS



**D04(1404)**  
4 NO. 12  
CONTACTS



**D03(1409)**  
9 NO. 16  
CONTACTS



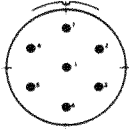
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CONTACTS



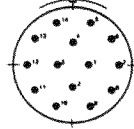
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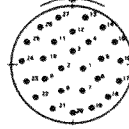
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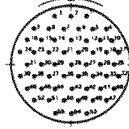
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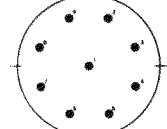
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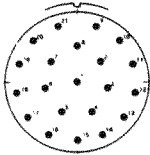
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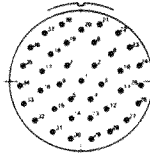
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CONTACTS



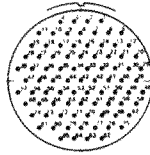
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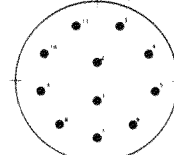
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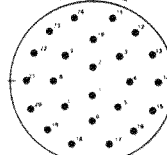
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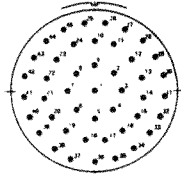
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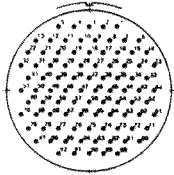
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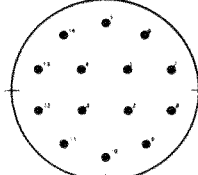
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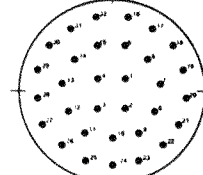
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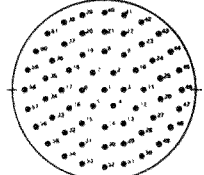
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CONTACTS



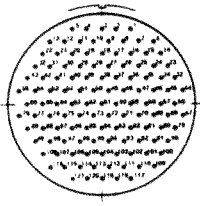
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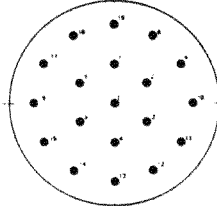
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CONTACTS



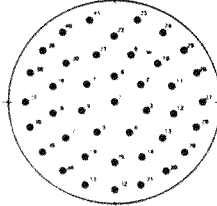
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CONTACTS



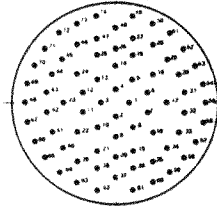
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19 NO. 12  
CONTACTS



**J03(2441)**  
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CONTACTS



**J02(2474)**  
74 NO. 20  
CONTACTS



**J01(24155)**  
155 NO. 23  
CONTACTS

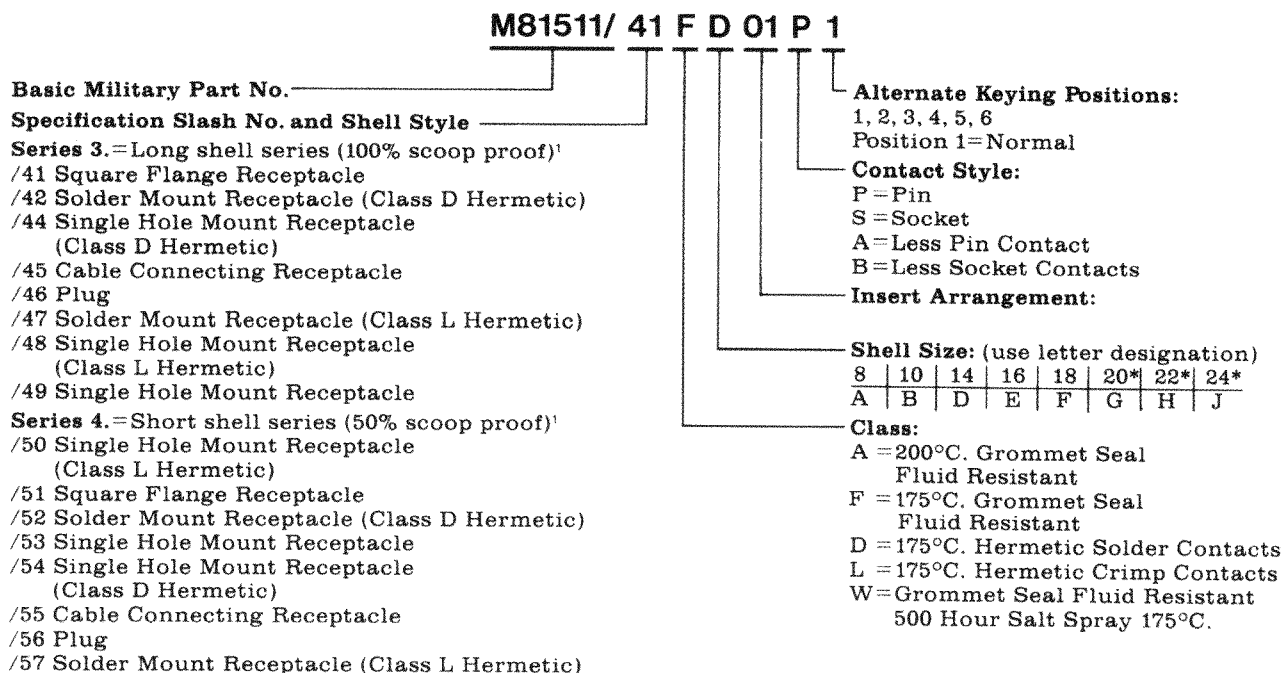


Arrangements are shown looking at pin face (socket is opposite). Cavity identifying numbers are for reference only. Actual marking shall be as required by applicable specifications.

This information is for reference only. Consult factory for envelope drawings, updated specifications, and additions to the product line.



## Parts Information



<sup>1</sup>Available in long series only.

Note: 1. For shell configuration see applicability of classes.

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