

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.



milc81511hi_dens_bayonet_locking

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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



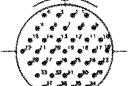
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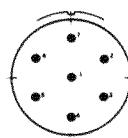
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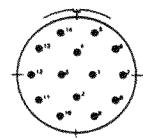
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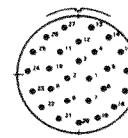
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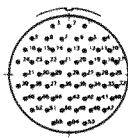
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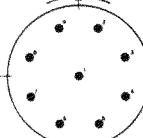
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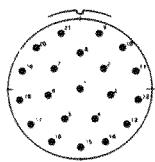
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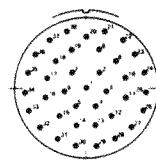
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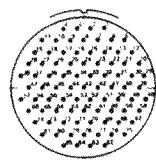
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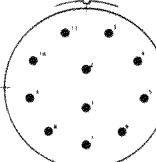
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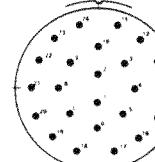
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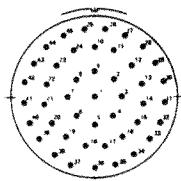
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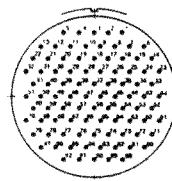
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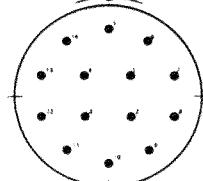
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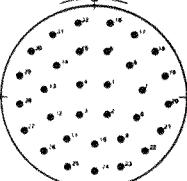
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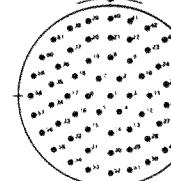
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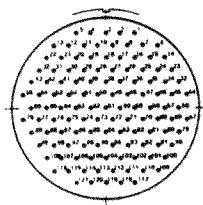
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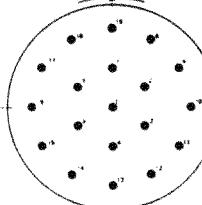
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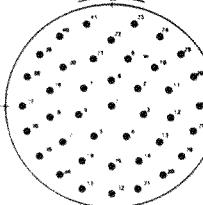
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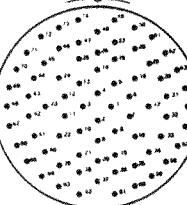
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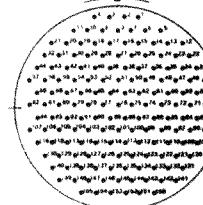
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CONTACTS



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

M81511/ 41 F D 01 P 1

Basic Military Part No. _____

Specification Slash No. and Shell Style _____

Series 3.=Long shell series (100% scoop proof)¹

/41 Square Flange Receptacle

/42 Solder Mount Receptacle (Class D Hermetic)

/44 Single Hole Mount Receptacle
(Class D Hermetic)

/45 Cable Connecting Receptacle

/46 Plug

/47 Solder Mount Receptacle (Class L Hermetic)

/48 Single Hole Mount Receptacle
(Class L Hermetic)

/49 Single Hole Mount Receptacle

Series 4.=Short shell series (50% scoop proof)¹

/50 Single Hole Mount Receptacle
(Class L Hermetic)

/51 Square Flange Receptacle

/52 Solder Mount Receptacle (Class D Hermetic)

/53 Single Hole Mount Receptacle

/54 Single Hole Mount Receptacle
(Class D Hermetic)

/55 Cable Connecting Receptacle

/56 Plug

/57 Solder Mount Receptacle (Class L Hermetic)

Alternate Keying Positions:

1, 2, 3, 4, 5, 6

Position 1=Normal

Contact Style:

P = Pin

S = Socket

A = Less Pin Contact

B = Less Socket Contacts

Insert Arrangement:

Shell Size: (use letter designation)

8	10	14	16	18	20*	22*	24*
A	B	D	E	F	G	H	J

Class:

A = 200°C. Grommet Seal

Fluid Resistant

F = 175°C. Grommet Seal

Fluid Resistant

D = 175°C. Hermetic Solder Contacts

L = 175°C. Hermetic Crimp Contacts

W=Grommet Seal Fluid Resistant
500 Hour Salt Spray 175°C.

**Available in long series only.*

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



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