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Miniature Circular Connectors with Quick-Connect Bayonet Coupling and Environmental Sealing to Help Withstand Harsh Environments



DEUTSCH AFD SERIES CONNECTORS

Miniature Connectors Sealed To Help Withstand Harsh Environments



WITHSTAND HARSH ENVIRONMENTS

- Triple wire sealed for sealing over a wide range of wire diameters
- Raised moisture barriers around each pin for individual contact sealing

EASY INSTALLATION

- Bayonet coupled
- Closed entry socket insert for positive pin alignment
- Rear-release crimp contact system for superior contact stability

VERSATILE AND ROBUST DESIGN OPTIONS

- Variety of shell styles in including square flange, single hole mount, cable connecting, solder mount (hermetic only).
- Aluminum alloy material, nickel, black anodic, and olive drab chromate (cadmium) over nickel platings available
- Power and shielded contacts
- Intermateable with MIL-DTL-26482 Series I connectors

APPLICATIONS

- Commercial Aerospace
- Military Aerospace
- Military Ground Vehicles

TE Connectivity's DEUTSCH AFD series connectors are MIL-DTL-26482 Series II-qualified connectors. They feature bayonet coupling and rear release contacts in a miniature circular connector system with environmental sealing.

This series features four receptacle mounting styles: square flange, wide square flange, cable connecting, and single-hole mount. Plugs are available with and without EMI fingers.

MATERIALS

- Shell: Aluminum alloy
- Shell Plating: Nickel, black anodized, or olive drab cadmium over nickel base
- Contacts: Copper alloy, selectively plated 50 μin gold
- Insulator: Rigid plastic dielectric
- Seals: Silicone-based elastomer

ENVIRONMENTAL

- Temperature: -55° to 200°C (class W rated to 175°C)
- Durability: 500 mating cycles
 250 cycles for parts with EMI fingers
- Vibration: Meets performance requirements of MIL-DTL-26482
- Shock: Meets performance requirements of MIL-DTL-26482

ELECTRICAL

- Shielding: EMI spring fingers as per MIL-DTL-26482 Series II
- Conductivity: 5 mV max. drop (with EMI Shielding) 200 mV max. drop (except class A) (without EMI Shielding)
- Contact Retention: Minimum axial force: Size 20: 20 lb • Size 16: 25 lb • Size 12: 30 lb

| Voltage Rating: | Service Rating 1 | Service Rating II | | | |
|-------------------------------|--------------------|----------------------|--|--|--|
| Recommended Operating Voltage | | | | | |
| @ Sea Level | 600 VACRMS/850 VDC | 1000 VACRMS/1275 VDC | | | |
| Test Voltages (VRMS) | | | | | |
| @ Sea Level | 1500 | 2300 | | | |
| @ 50,000 ft. | 500 | 750 | | | |
| @ 70,000 ft. | 375 | 500 | | | |
| @ 110,000 ft. | 200 | 200 | | | |
| | | | | | |

Contacts

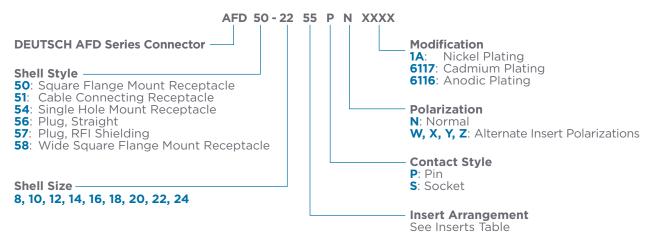
| Size | Pin Contact | Socket Contact | Seal Plug | Insertion/Removal Tool |
|------|----------------|-------------------|--------------|---------------------------|
| 20 | M39029/4-110 | M39029/5-115 | MS27488-20-2 | M81969/14-11 |
| 16 | M39029/4-111 | M39029/5-116 | MS27488-16-2 | M81969/14-03 |
| 12 | M39029/4-113 | M39029/5-118 | MS27488-12-2 | M81969/14-04 |

TE Components...TE Technology...TE Know-how...

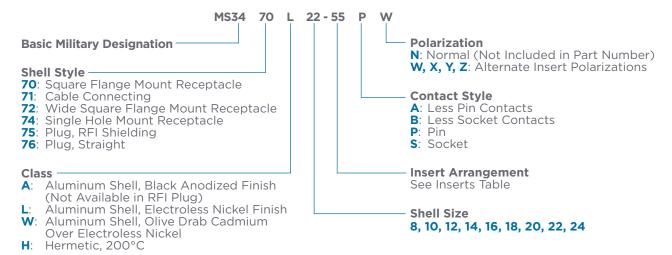
AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Raychem | Rochester | DEUTSCH

Get your product to market faster with a smarter, better solution.

DEUTSCH AFD Series Part Numbering System



MIL-DTL-26482 Part Numbering System



Insert Arrangements

| Imaaut | Contact Size | | | Insert |
|--------|---------------------|----|----|---------------|
| Insert | 20 | 16 | 12 | Positions |
| 8-33 | 3 | _ | _ | N, W |
| 8-98 | 3 | _ | _ | Ν |
| 10-6 | 6 | _ | _ | N, W |
| 12-3 | _ | 3 | _ | N, Y |
| 12-8 | 8 | _ | _ | N, W, X, Y, Z |
| 12-10 | 10 | _ | _ | N, W, X, Y, Z |
| 14-4 | _ | _ | 4 | N, W |
| 14-5 | _ | 5 | _ | N, W, X, Y, Z |
| 14-12 | 8 | 4 | _ | N, W, X |
| 14-15 | 14 | 1 | _ | N, W, X, Y, Z |

| Insert Contact Size | | Insert | |
|---------------------|---|--------------------------------------|---|
| 20 | 16 | 12 | Positions |
| 18 | _ | _ | N, W, X, Y, Z |
| 19 | _ | _ | N, W, X |
| _ | 8 | _ | N, W, X, Y, Z |
| 22 | 1 | _ | N, W |
| 26 | _ | _ | N, W, Y, Z |
| _ | _ | 8 | N, W |
| _ | 11 | _ | N, W, X, Y, Z |
| 29 | 1 | _ | N, W, X, Y, Z |
| 32 | _ | _ | N, W, X, Y, Z |
| _ | 16 | _ | N, W, X, Y, Z |
| | 20 18 19 - 22 26 - - 29 | 20 16 18 - 19 8 22 1 26 11 29 1 32 - | 20 16 12 18 - - 19 - - - 8 - 22 1 - 26 - - - 8 - - 11 - 29 1 - 32 - - |

Contact Size

| lusant | Contact Size | | | Insert |
|--------|--------------|----|----|---------------|
| Insert | 20 | 16 | 12 | Positions |
| 20-39 | 37 | 2 | _ | N, W, X, Y, Z |
| 20-41 | 41 | _ | _ | N, W, X, Y, |
| 22-12 | _ | _ | 12 | N |
| 22-21 | _ | 21 | _ | N, W, X, Y, |
| 22-32 | 32 | | _ | N, W, X, Y, Z |
| 22-41 | 27 | 14 | _ | N, W, X, Y, |
| 22-55 | 55 | _ | _ | N, W, X, Y, Z |
| 24-19 | _ | _ | 19 | N, W, X, Y, |
| 24-31 | _ | 31 | _ | N, W, X, Y, |
| 24-61 | 61 | _ | _ | N, W, X, Y, Z |
| | | | | |

For More Information

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Consult TE for the latest dimensions and design specifications.

