



# NANONICS CONNECTORS

ACCORDING TO MIL-DTL-32139

QPL-Approved Nanominiature Connectors Offering  
Space- and Weight-Saving Durability and Intermateability/  
Interchangeability with Other M32139 Connectors

# NANONICS CONNECTORS

According to MIL-DTL-32139



## Versatile, Durable Dual-Row Assemblies

An important addition to our line of nanominiature rectangular connectors, our new two-row Nanonics connector assemblies are qualified to MIL-DTL-32139 specifications.

### ENVIRONMENTAL/MECHANICAL

- **Operating Temperatures:** -65°C to +125°C
- **Durability:** 200 mating cycles

### MATERIALS

- **Shell:** Electroless nickel-plated aluminum or passivated stainless steel
- **Contacts:** Gold-plated copper alloy

### ELECTRICAL

- **Dielectric Withstanding Voltage:** 250 V at sea level, 100 V at 70,000 feet

### FLYING LEADS

- **Size:** 30 AWG, 7 strand
- **Conductor:** Silver-plated copper or high-strength copper alloy
- **Insulation:**
  - DX:** White PTFE (NEMA HP3-ETXBBB9)
  - DM:** Color-coded PTFE (NEMA HP3-ETEBBB( ), MIL-STD-681, System 1 color coding)
  - DT:** White ETFE (M22759/33-30-9)
  - TM:** Color-coded ETFE (M22759/33-30-( ), MIL-STD-681, System 1 color coding)
- **Standard Lengths:** 6, 18, 36 inches

## SIZE AND WEIGHT SAVINGS

- Ultra-compact
- .025" contact centerline
- Small form factor and narrow footprint

## RELIABLY RUGGED

- Keying feature helps eliminate mismatching and prevent stubbing
- 200 mating cycles
- Corrosion-resistant shells help withstand harsh environments

## COST SAVINGS

- Factory-terminated leads help reduce installation costs
- Captive plug jackscrews eliminate need for additional accessory hardware

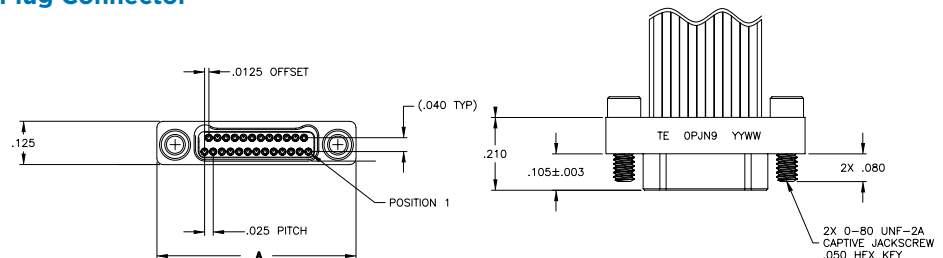
## VERSATILE

- Range of shell finishes, wire types, and lead lengths
- Intermateable/interchangeable with competitive MIL-DTL-32139 products
- Seven sizes from 9 to 51 positions

## APPLICATIONS

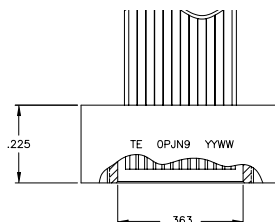
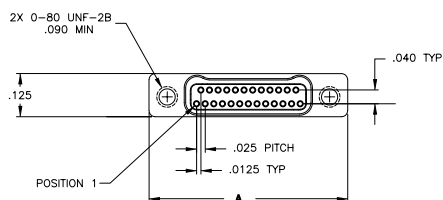
- Aerospace and Defense
- Test and Measurement
- Marine, Oil, and Gas
- Commercial Air

## Plug Connector



| No. of Positions | Dim A |
|------------------|-------|
| 9                | .375  |
| 15               | .450  |
| 21               | .525  |
| 25               | .575  |
| 31               | .650  |
| 37               | .725  |
| 51               | .900  |

## Receptacle Connector



| No. of Positions | Dim A |
|------------------|-------|
| 9                | .375  |
| 15               | .450  |
| 21               | .525  |
| 25               | .575  |
| 31               | .650  |
| 37               | .725  |
| 51               | .900  |

## Part Numbers: Electroless Nickel-Plated Aluminum Shell

Contact TE for other configurations and shell types

| Positions | Wire Type | Part No.    |             |             |             |             |             |
|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
|           |           | 6" Lead     |             | 18" Lead    |             | 36" Lead    |             |
|           |           | Plug        | Rcpt        | Plug        | Rcpt        | Plug        | Rcpt        |
| 9         | DX        | 1925214-1   | 1925221-1   | 1925214-3   | 1925221-3   | 1925214-5   | 1925221-5   |
|           | DM        | 1925214-7   | 1925221-7   | 1925214-9   | 1925221-9   | 1-1925214-1 | 1-1925221-1 |
|           | DT        | 1-1925214-3 | 1-1925221-3 | 1-1925214-5 | 1-1925221-5 | 1-1925214-7 | 1-1925221-7 |
|           | TM        | 1-1925214-9 | 1-1925221-9 | 2-1925214-1 | 2-1925221-1 | 2-1925214-3 | 2-1925221-3 |
| 15        | DX        | 1925215-1   | 1925222-1   | 1925215-3   | 1925222-3   | 1925215-5   | 1925222-5   |
|           | DM        | 1925215-7   | 1925222-7   | 1925215-9   | 1925222-9   | 1-1925215-1 | 1-1925222-1 |
|           | DT        | 1-1925215-3 | 1-1925222-3 | 1-1925215-5 | 1-1925222-5 | 1-1925215-7 | 1-1925222-7 |
|           | TM        | 1-1925215-9 | 1-1925222-9 | 2-1925215-1 | 2-1925222-1 | 2-1925215-3 | 2-1925222-3 |
| 21        | DX        | 1925216-1   | 1925223-1   | 1925216-3   | 1925223-3   | 1925216-5   | 1925223-5   |
|           | DM        | 1925216-7   | 1925223-7   | 1925216-9   | 1925223-9   | 1-1925216-1 | 1-1925223-1 |
|           | DT        | 1-1925216-3 | 1-1925223-3 | 1-1925216-5 | 1-1925223-5 | 1-1925216-7 | 1-1925223-7 |
|           | TM        | 1-1925216-9 | 1-1925223-9 | 2-1925216-1 | 2-1925223-1 | 2-1925216-3 | 2-1925223-3 |
| 25        | DX        | 1925217-1   | 1925224-1   | 1925217-3   | 1925224-3   | 1925217-5   | 1925224-5   |
|           | DM        | 1925217-7   | 1925224-7   | 1925217-9   | 1925224-9   | 1-1925217-1 | 1-1925224-1 |
|           | DT        | 1-1925217-3 | 1-1925224-3 | 1-1925217-5 | 1-1925224-5 | 1-1925217-7 | 1-1925224-7 |
|           | TM        | 1-1925217-9 | 1-1925224-9 | 2-1925217-1 | 2-1925224-1 | 2-1925217-3 | 2-1925224-3 |
| 31        | DX        | 1925218-1   | 1925225-1   | 1925218-3   | 1925225-3   | 1925218-5   | 1925225-5   |
|           | DM        | 1925218-7   | 1925225-7   | 1925218-9   | 1925225-9   | 1-1925218-1 | 1-1925225-1 |
|           | DT        | 1-1925218-3 | 1-1925225-3 | 1-1925218-5 | 1-1925225-5 | 1-1925218-7 | 1-1925225-7 |
|           | TM        | 1-1925218-9 | 1-1925225-9 | 2-1925218-1 | 2-1925225-1 | 2-1925218-3 | 2-1925225-3 |
| 37        | DX        | 1925219-1   | 1925226-1   | 1925219-3   | 1925226-3   | 1925219-5   | 1925226-5   |
|           | DM        | 1925219-7   | 1925226-7   | 1925219-9   | 1925226-9   | 1-1925219-1 | 1-1925226-1 |
|           | DT        | 1-1925219-3 | 1-1925226-3 | 1-1925219-5 | 1-1925226-5 | 1-1925219-7 | 1-1925226-7 |
|           | TM        | 1-1925219-9 | 1-1925226-9 | 2-1925219-1 | 2-1925226-1 | 2-1925219-3 | 2-1925226-3 |
| 51        | DX        | 1925220-1   | 1925227-1   | 1925220-3   | 1925227-3   | 1925220-5   | 1925227-5   |
|           | DM        | 1925220-7   | 1925227-7   | 1925220-9   | 1925227-9   | 1-1925220-1 | 1-1925227-1 |
|           | DT        | 1-1925220-3 | 1-1925227-3 | 1-1925220-5 | 1-1925227-5 | 1-1925220-7 | 1-1925227-7 |
|           | TM        | 1-1925220-9 | 1-1925227-9 | 2-1925220-1 | 2-1925227-1 | 2-1925220-3 | 2-1925227-3 |

## For More Information

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