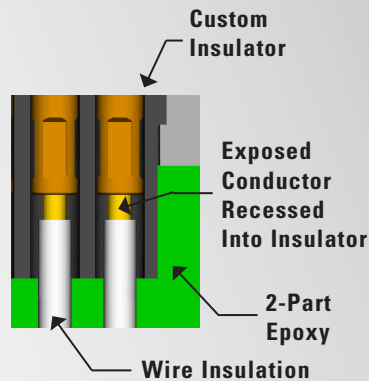# CINCH® Dura-Con™

## High Temperature "DCPM" Dura-Con™ Micro-D Plug Connectors

## Technology

Cinch has teamed our proven twist pin technology with these custom designed insulators capable of meeting the extreme mechanical and electrical needs in the harshest environments of military/ aerospace and industrial applications such as Down Hole Directional Drilling.

Cinch's unique plug insulators are designed to provide increased electrical protection between contact cavities preventing any potential shorts due to exposed wire or epoxy voids. Comprised of PEEK material these connectors offer superior performance and long life in severe environments.

**Custom Insulator**

**Exposed Conductor Recessed Into Insulator**

**2-Part Epoxy**

**Wire Insulation**

## Product Offerings

- Full harnessing capabilities ranging from simple point-point to complex with many branches

- Custom configurations and modifications available to fit unique packaging and design requirements
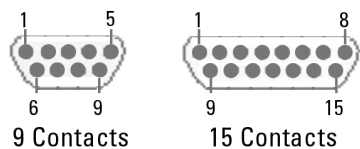
## Cinch's Twist Pin Advantage

- Combine the twist pin performance with increased temperature range

- BeCu wire strands provide seven points of electrical contact

- Achieve high mating cycles and better resistance to shock and vibration

- Approved system applications (Aerospace, Defense and Geo-thermal)

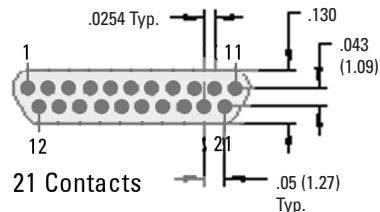- Qualified and approved to Mil-DTL-83513

**Detail of Dura-Con™ Twist Pin**

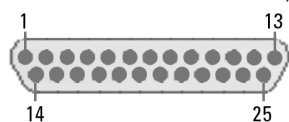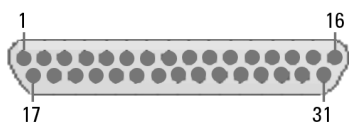## CINCH

## Contact Arrangements
### (Face View)

**9 Contacts**
1 5
6 9

**15 Contacts**
1 8
9 15

**21 Contacts**
.0254 Typ. .130
1 11 .043 (1.09)
12 21
.05 (1.27) Typ.

**25 Contacts**
1 13
14 25

**31 Contacts**
1 16
17 31
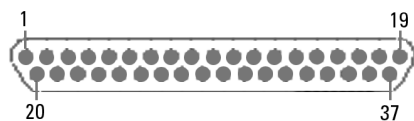
**37 Contacts**
1 19
20 37

## Shell Dimensions
### Plug
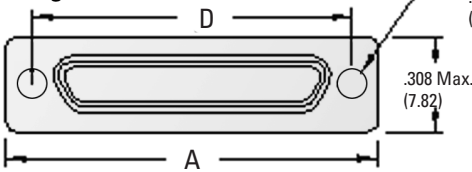
Two. Mtg. Holes .096/ .088 Dia. (2.44/2.24)
D
.308 Max. (7.82)
A

.186 (4.72) Max.
B
.416 Max. (10.57)
C
.098 Max. (2.50)

**Standard**
.270 (6.86) Max.
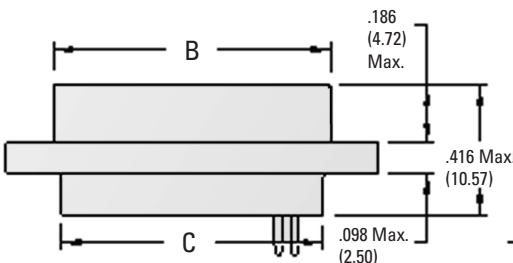
**Solder**
.100 (2.54) Max.
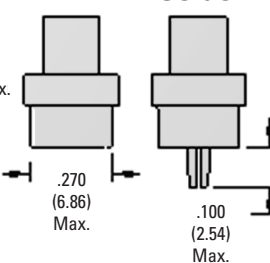
| No. of Contacts | A Max. | | B Max. | | C Max. | | D Nominal | |
|---|---|---|---|---|---|---|---|---|
| | In. | mm. | in. | mm. | in. | mm. | in. | mm. |
| 9 Plug | .785 | 19.94 | .334 | 8.48 | .400 | 10.16 | .565 | 14.35 |
| 15 Plug | .935 | 23.74 | .484 | 12.29 | .550 | 13.97 | .715 | 18.16 |
| 21 Plug | 1.085 | 27.56 | .634 | 16.10 | .700 | 17.78 | .865 | 21.97 |
| 25 plug | 1.185 | 30.10 | .734 | 18.64 | .800 | 20.32 | .965 | 24.51 |
| 31 Plug | 1.335 | 33.97 | .884 | 22.45 | .950 | 24.13 | 1.115 | 28.32 |

### Part Number

DC P M XX P 6 N 2 - 18.0 B N

- Cinch Dura-Con "D"
- Insulator Type P=Peek High Temperature
- M=Metal Shell
- Contact Positions xx=9,15, 21, 25, 31, 37
- Contact Type P = Plug (PIN)
- Wire Size (in AWG) 4=24, 6=26, 8=28 S=Solder Cup (Skip to Mounting Hardware)
- Insulated Wire Type N = Mil-W-22759/33
- Shell Plating N = Nickel
- Mounting hardware B = No Hardware M = Jackscrew Hex Head Low Profile Per M83513/05-02
- Lead Length (in Inches) XX.X
- Insulation Color 1 = White 5 = Color Coded Per Mil-Std 681 System 1 6 = Coded Per Mil-Std 681 System 1 First 10 Colors then repeat

| Performance Characteristics | |
|---|---|
| Operating Temperature | -40°C  to 175°C  (-40°F to 347°F) |
| Shock | 50 G's per MIL-STD-1344, Method 2004, Condition E (EIA-364-27, Condition E) |
| Vibration | 20 G's per MIL-STD-1344, Method 2005, Condition IV (EIA-364-28, Condition IV) |
| Sizes | 9, 15, 21, 25, available. Please consult factory for larger sizes. |

**CINCH**