



# MIL-DTL-32139 Nano-D Connectors

## R06 Series Crimping Connectors

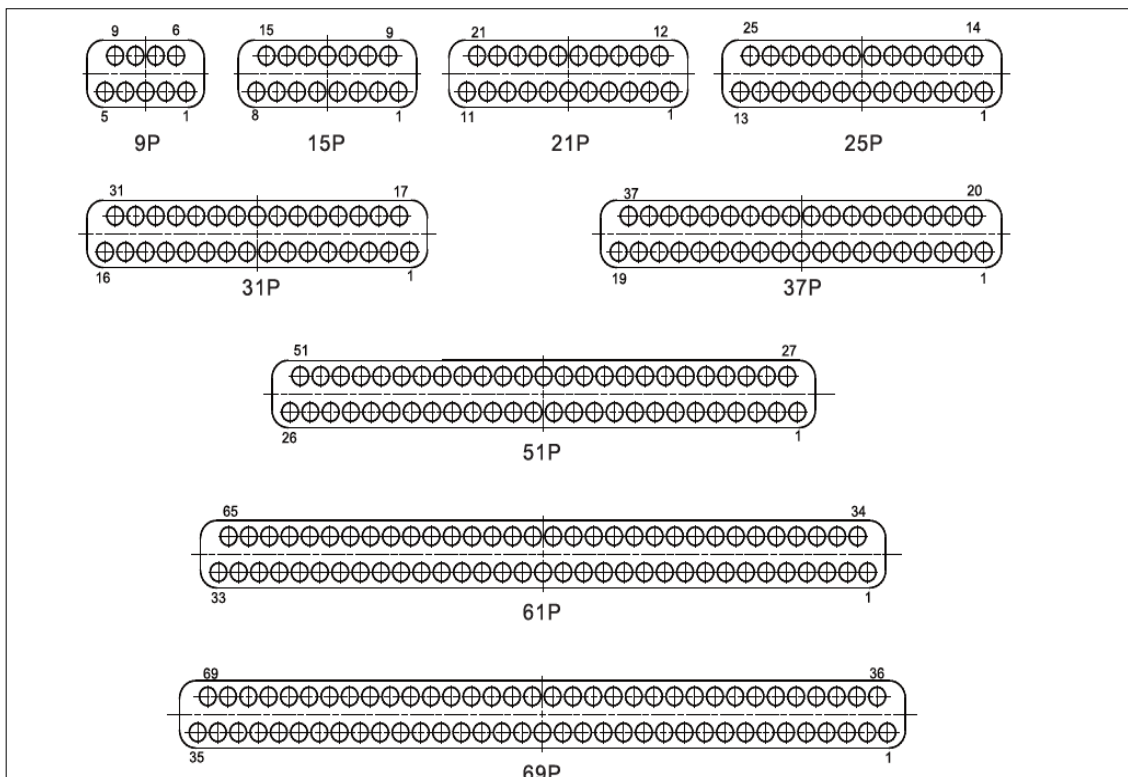
### Brief Introduction

- Contacts: 9, 15, 21, 25, 31, 37, 51, 65, 69 pins
- Twist flexible nano pin (twist pin), 0.635mm pitch, nano miniature outline dimension.
- Screw nut locking, it is gently when insert and extract, stably locked.
- It is used for all kinds for electric circuit system interconnection which have high density, nano, light, highly reliable requirement, it can meet light and miniaturize demand.
- Plug with twist pin, receptacle with socket, free terminal with locking screw, fixed terminal with nut, standard mated connector locked by screw and nut.
- Standard: MIL-DTL-32139.
- The sectional area of crimp conductive cable is  $0.035\text{mm}^2$ .
- Undefined tolerance is  $\pm 0.13\text{mm}$

### Specifications

- |   |                                 |                          |                                  |
|---|---------------------------------|--------------------------|----------------------------------|
| ■ Environment:  | -55°C~+125°C                    | ■ Contact resistance:    | $\leq 21\text{m}\Omega$          |
| ■ Vibration:  | 10HZ~2000HZ 196m/s <sup>2</sup> | ■ Insulation resistance: | $\geq 5000\text{M}\Omega$ 100VDC |
| ■ Shock:  | 980m/s <sup>2</sup> 6ms         | ■ Dielectric strength:   | 250V                             |
| ■ Rated current:  | 1A                              | ■ Machine life:          | 200 times                        |
| ■ Random vibration: power spectrum density 0.4G <sup>2</sup> /Hz, r.m.s value of total acceleration 23.1G |                                 |                          |                                  |

### Contact Arrangements



Remark: The above layout is view from plug mate side end face.

## How To Order

<b>Series</b>	R06	-2	2	1	-C	1	-9	PI	0	-JC	30	9	10
<b>Contact Row:</b> 2—Two Rows													
<b>Shell Plating:</b> 2—Nickel Plating													
<b>Contact Plating:</b> 1—Gold Plating													
<b>Tail Termination Type :</b> C—Crimp													
<b>Mounting Style:</b> 1—Free Mounted 2—Vertical Mounted 3—Horizontal Mounted 4—Crimp Siamese 5—Nut Mounted 6—Flange Mounted 7—Floating Mounted													
<b>Contact Number:</b> 9,15,21,25,31,37,51,65,69pins													
<b>Contact Type</b> PI—Pin in Plug RH—Socket in Receptacle													
<b>Tail Cover :</b> 0—Without Tail Cover 1—With Tail Cover (For Free Mounted C1 Series,Vertical Mounted C2 Series and Horizontal Mounted C3 Series Only)													
<b>Locking Hardware Type:</b> 00—No Locking Hardware JC—Locking Screw (Straight Slot) JC1—Locking Screw (Hex, Not Recommend) TH—Connect Nut NH—Guide Hole With Nut Mounted													
<b>Wire Gage:</b> 30—AWG30													
<b>Wire Color:</b> 9—White                      T—Ten Color Repeating													
<b>Wire Length:</b> 10—Wire Length in cm. "10" Specifies 10cm													

## Choose mating connector

- When choosing mating connector with locking accessories usually choose the locking component which one side with connect nut(TH), the other side with locking screw(JC).
- When choosing product with guide accessories,connector without locked component but only with guide component,it need fix on mounting panel after mated,for avoiding connector take off. When choosing mating connector with guide components usually choose the guide component which one side with guide pin, the other side with guide hole.

# Nut Mounted Crimp Receptacle with Guid Hole Series

## How To Order

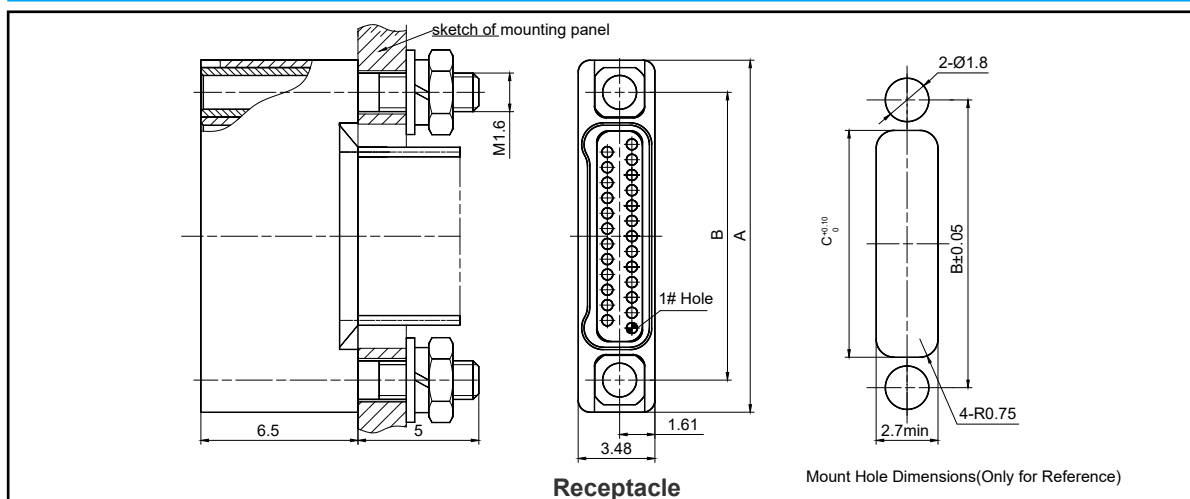
<b>Series</b>	R06	-2	2	1	-C	5	-25	RH	0	-NH	30	9	10
<b>Contact Row:</b>													
2—Two Rows													
<b>Shell Plating:</b>													
2—Nickel Plating													
<b>Contact Plating:</b>													
1—Gold Plating													
<b>Tail Termination Type:</b>													
C—Crimp													
<b>Mounting Style:</b>													
5—Nut Mounted													
<b>Contact Number:</b>													
9,15,21,25,31,37,51,65,69pins													
<b>Contact Type:</b>													
RH—Socket in Receptacle													
<b>Tail Cover:</b>													
0—Without Tail Cover													
<b>Locking Hardware Type:</b>													
NH—Guide Hole With Nut Mounted													
<b>Wire Gage:</b>													
30—AWG30													
<b>Wire Color:</b>													
9—White      T—Ten Color Repeating													
<b>Wire Length:</b>													
10—Wire Length in cm. "10" Specifies 10cm													



**Receptacle**

Remark: Connectors with guide holes are usually mated with plugs with guide pins.

## Outline Dimensions



Pin Count	Dimensions			Pin Count	Dimensions			Pin Count	Dimensions		
	A	B	C		A	B	C		A	B	C
9pins	9.63	6.86	4.2	15pins	11.53	8.76	6.1	21pins	13.44	10.67	8
25pins	14.71	11.94	9.3	31pins	16.61	13.84	11.2	37pins	18.52	15.75	13.1
51pins	22.96	20.19	17.55	65pins	27.41	24.64	22	69pins	28.68	25.91	23.25

Remark: All dimensions are in mm.