## *iWSeries*

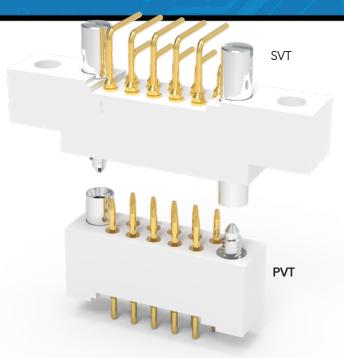
2.54mm (0.100") Pitch — Vertical & Right Angle



# Plated Thru-Hole (PTH) Connectors

The iWSeries connector family is a 2-row high reliability connector solution with a pitch of 2.54 millimeters (0.100"). Available with 10 to 30 contacts and rated up to 5A per contact make it versatile for either signal or power applications. The connectors can also be customized to address unique design requirements.

- Current rating up to 5A per contact
- High vibration and shock resistant
- Withstands extreme temperatures of -65°C to +125°C
- Vertical & right-angle options
- Selectively plated, cost efficient for Industrial applications
- Highly reliable connection for demanding applications



#### Part Number Builder

| iW     | _ 2  | Body<br>Style    | Mounting<br>Ears    | Size | Termination                     | Hardware<br>Style         |
|--------|------|------------------|---------------------|------|---------------------------------|---------------------------|
| Series | Rows | <b>P</b><br>Plug | <b>0</b><br>Without | 10   | <b>PVT7</b><br>Pin: Vertical    | <b>J</b><br>Fixed Jackset |
|        |      | R                | 1                   | 14   | PVT9                            | JTA                       |
|        |      | Receptacle       | With                | 20   | Pin: Vertical                   | Turning Jackset           |
|        |      |                  |                     | 24   | Socket: Vertical                |                           |
|        |      |                  |                     | 26   | <b>SVT9</b><br>Socket: Vertical |                           |
|        |      |                  |                     | 30   | Socket: Vertical                |                           |
|        |      |                  |                     |      | Socket: Right Angle             |                           |
|        |      |                  |                     |      | SRT9                            |                           |
|        |      |                  |                     |      | Socket: Right Angle             |                           |

#### **Technical Information**

#### **Material Specifications**

Insulator Material:

Glass-filled PPS (polyphenylene sulfide)

Insulator Color: White

Material (Contacts): Pins: copper alloy

Sockets: beryllium copper

Terminal Material: Copper alloy

Plating (Contacts):

Minimum 15  $\mu$ in Au over 30  $\mu$ in Ni

Hardware: Stainless steel

#### **Electromechanical Performance**

Rated Current: 5A per contact  $\label{eq:Durability:} \textbf{Durability:} \geq 250 \text{ mating cycles}$   $\label{eq:Durability:} \textbf{Test Voltage:} 1,000 \text{ V AC for 1 minute}$   $\label{eq:Durability:} \textbf{Insulation Resistance:} 5 \text{ } \Theta\Omega \text{ min.}$ 

Contact Resistance:  $5 \text{ m}\Omega$  max.

Insertion Force (Max): 4 oz. (1.1N) per contact

Withdrawal Force (Min.): 0.5 oz. (0.14N) per contact

#### **Environmental Specifications**

Operating Temperature:  $-65^{\circ}$  to  $+125^{\circ}$ C

**Vibration:** 10Hz to 2,000Hz, 1.52mm, 147.1m/s2

(15G), duration 12h

RoHS: Compliant



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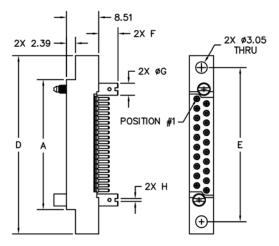
2X C

> 6.35 3.81

- 1.89

2X 2.54

В



3.30 POSITION #1
JACKSCREW
#2-56 UNC-2A

JACKSOCKET
#2-56 UNC-2B

93.18

TYP.

3.30

TYP.

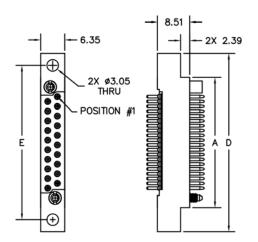
RECEPTACLE (WITHOUT EARS)
(IW-2R0-20-SVT7-J)

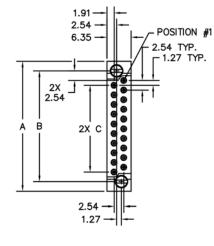
RECEPTACLE (WITH EARS) (IW-2R1-20-SVT7-JTA)

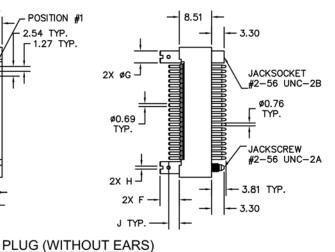
|      | DIMENSIONS |       |       |       |       |
|------|------------|-------|-------|-------|-------|
| SIZE | Α          | В     | С     | D     | E     |
| 10   | 21.59      | 16.51 | 10.16 | 34.29 | 27.94 |
| 14   | 26.67      | 21.59 | 15.24 | 39.37 | 33.02 |
| 20   | 34.29      | 29.21 | 22.86 | 46.99 | 40.64 |
| 24   | 39.37      | 34.29 | 27.94 | 52.07 | 45.72 |
| 26   | 41.91      | 36.83 | 30.48 | 54.61 | 48.26 |
| 30   | 46.99      | 41.91 | 35.56 | 59.69 | 53.34 |

|          | DIMENSIONS |       |                  |  |
|----------|------------|-------|------------------|--|
| HARDWARE | F          | øG    | Н                |  |
| -J       | N/A        | N/A   | N/A              |  |
| -JTA     | 5.08       | ø3.18 | SLOT 0.79 x 0.79 |  |

|         | DIMENSIONS |  |
|---------|------------|--|
| CONTACT | J          |  |
| -SVT7   | 2.77       |  |
| -SVT9   | 3.56       |  |







PLUG (WITH EARS) (IW-2P1-20-PVT7-J)

|      | DIMENSIONS |       |       |       |       |
|------|------------|-------|-------|-------|-------|
| SIZE | Α          | В     | С     | D     | Ε     |
| 10   | 21.59      | 16.51 | 10.16 | 34.29 | 27.94 |
| 14   | 26.67      | 21.59 | 15.24 | 39.37 | 33.02 |
| 20   | 34.29      | 29.21 | 22.86 | 46.99 | 40.64 |
| 24   | 39.37      | 34.29 | 27.94 | 52.07 | 45.72 |
| 26   | 41.91      | 36.83 | 30.48 | 54.61 | 48.26 |
| 30   | 46.99      | 41.91 | 35.56 | 59.69 | 53.34 |

(IW-2P0-20-PVT7-JTA)

| DIMENSIONS |
|------------|
| J          |
| 2.77       |
| 3.56       |
|            |

All dimensions in millimeters.