# **iWSeries**

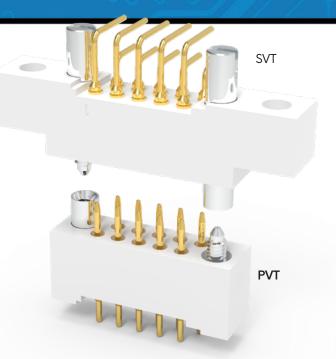
2.54mm (0.100") Pitch — Vertical & Right Angle

## Rorn

### 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 Hardware Body Mounting iW 2 Size Termination Style Ears Series Rows 0 10 PVT7 Without Fixed Jackset Plug Pin: Vertical 14 PVT9 R 1 Pin: Vertical 20 Receptacle With Turning Jackset SVT7 24 Socket: Vertical 26 SVT9 Socket: Vertical 30 SRT7 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 µin Au over 30 µin Ni

Hardware: Stainless steel

#### **Electromechanical Performance**

Rated Current: 5A per contact

Durability: ≥ 250 mating cycles

Test Voltage: 1,000 V AC for 1 minute

Insulation Resistance:  $5 G\Omega$  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° to +125°C

Vibration: 10Hz to 2,000Hz, 1.52mm, 147.1m/s2 (15G), duration 12h

Style

J

JTA

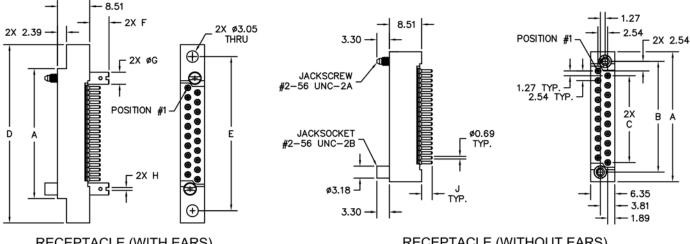
**RoHS:** Compliant



www.airborn.com/markets/industrial

### **iWSeries**



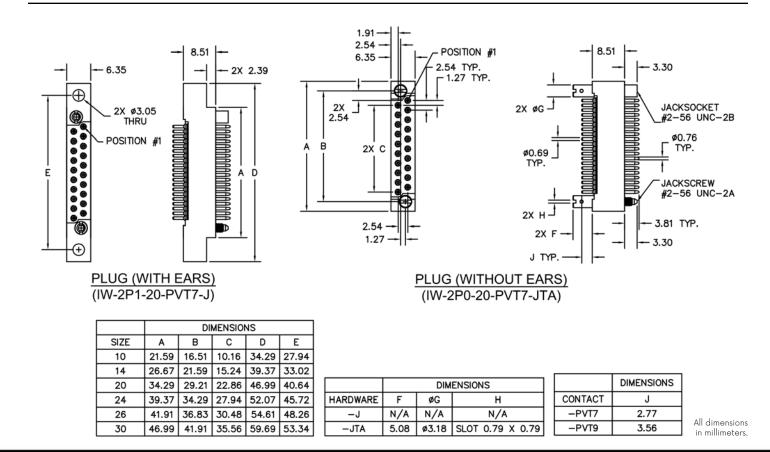


RECEPTACLE (WITH EARS) (IW-2R1-20-SVT7-JTA)

	DIMENSIONS								
SIZE	Α	В	С	D	Е				
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				

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

∠						
4		DIMENSIONS				DIMENSIONS
2	HARDWARE	F	øG	н	CONTACT	J
6	—J	N/A	N/A	N/A	-SVT7	2.77
4	-JTA	5.08	ø3.18	SLOT 0.79 x 0.79	-SVT9	3.56



#### www.airborn.com/markets/industrial