

iW Series

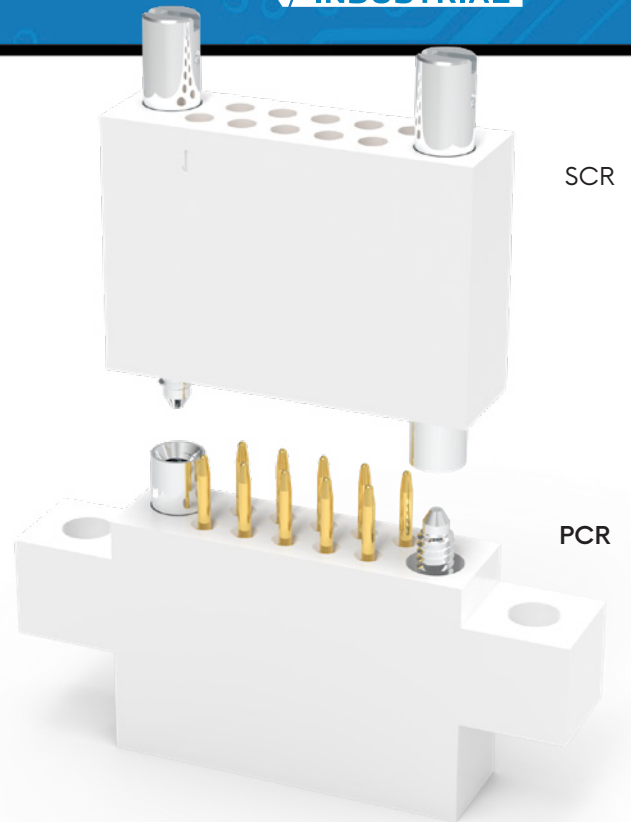
2.54mm (0.100") Pitch — Vertical



Crimp-Removable Cable Connectors

The iW Series 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
- Crimp contacts for AWG 22 (0.34 mm²), AWG 24 (0.25 mm²), & AWG 26 (0.14 mm²)
- Selectively plated, cost efficient for Industrial applications
- Highly reliable connection for demanding applications



Part Number Builder

| iW | 2 | Body Style | Mounting Ears | Size | Termination | Hardware Style |
|--------|------|-----------------|---------------|------|-----------------------------------|------------------------|
| Series | Rows | P Plug | 0 Without | 10 | PCR Pin: Crimp Removable | J Fixed Jackset |
| | | R Receptacle | 1 With | 20 | SCR Socket: Crimp Removable | JTA Turning Jackset |
| | | | | 24 | | |
| | | | | 26 | | |
| | | | | 30 | | |

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 GΩ min.

Contact Resistance: 5 mΩ max.

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

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

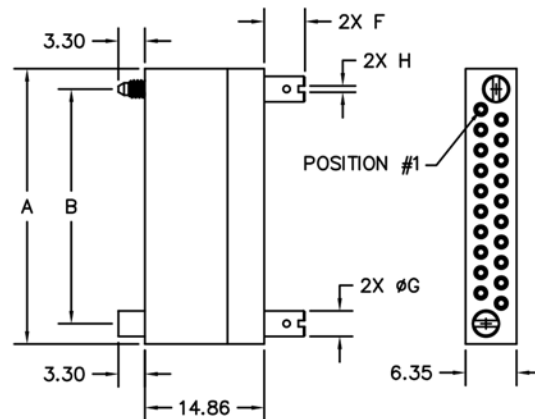
Environmental Specifications

Operating Temperature: -65° to +125°C

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

RoHS: Compliant

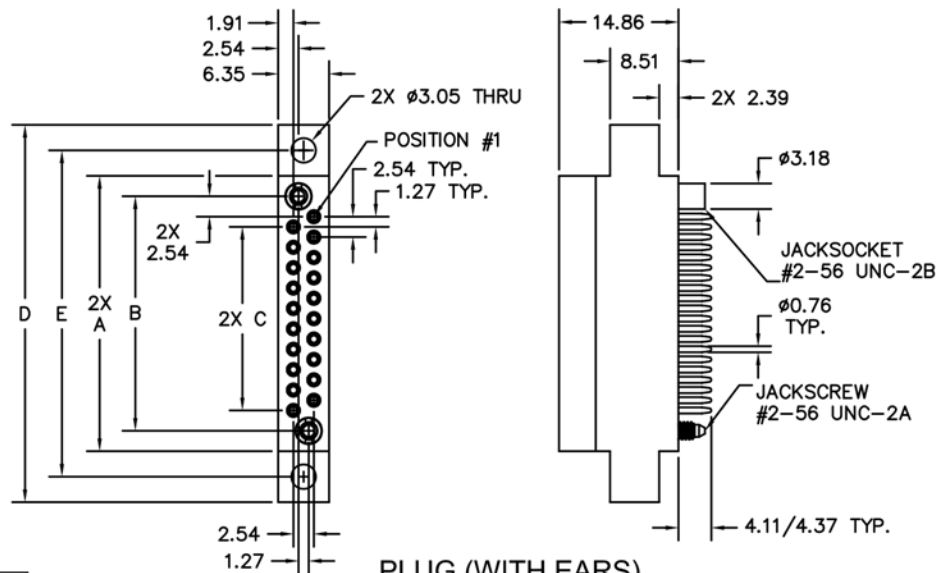
iSeries
BASED ON MIL-SPEC. BUILT FOR INDUSTRIAL.



RECEPTACLE (WITHOUT EARS)
(IW-2R0-20-SCR-JTA)

| DIMENSIONS | | | | | |
|------------|-------|-------|-------|-------|-------|
| SIZE | A | B | C | 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 | H |
| -J | N/A | N/A | N/A |
| -JTA | 5.08 | Ø3.18 | SLOT 0.79 x 0.79 |



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

| DIMENSIONS | | | | | |
|------------|-------|-------|-------|-------|-------|
| SIZE | A | B | C | 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 | H |
| -J | N/A | N/A | N/A |
| -JTA | 5.08 | Ø3.18 | SLOT 0.79 x 0.79 |

All dimensions in millimeters.