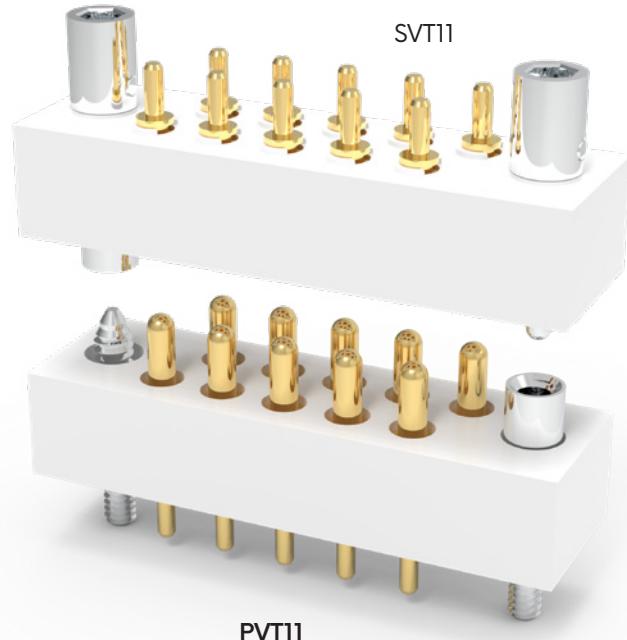


## Plated Thru-Hole (PTH) Connectors

The PowerAmp connector family is a 1- and 2-row high reliability connector solution with a pitch of 5.72 millimeters (0.225"). Available with 5 to 20 contacts and rated up to 23A per contact make it ideal for robust power connections. The connectors can also be customized to address unique design requirements.

- Current rating up to 23A per contact
- High vibration and shock resistant
- Withstands extreme temperatures of -65°C to +125°C
- UL94V-0 flammability rated insulator
- UL Approved, UL 1977 ECBT2.E466640



### Part Number Builder

iP	—	Rows	Body Style	Mounting Ears	—	Size	—	Termination	—	Hardware Style
Series	1		P Plug	0 Without		05		PVT11 Pin: Vertical PTH		J Fixed Jackset
	2		R Receptacle			10		SVT11 Socket: Vertical PTH		JTB Turning Jackset
						20				QTT-1 Quarter Turn (Turning)
										QTF-1 Quarter-Turn (Fixed)

### 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  $\mu$ m Au over 30  $\mu$ m Ni

**Hardware:** Stainless steel

**UL File:** SE466640

#### Electromechanical Performance

**Rated Current:** 23A per contact

**Durability:**  $\geq$  250 mating cycles

**Test Voltage:** 2,000 V AC for 1 minute

**Insulation Resistance:** 5 G $\Omega$  min.

**Contact Resistance:** 1 m $\Omega$  max.

**Insertion Force (Max):** 4 oz. (4.45N) per contact

**Withdrawal Force (Min.):**

0.5 oz. (0.14N) per contact

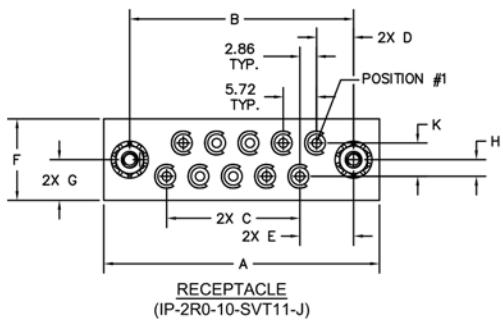
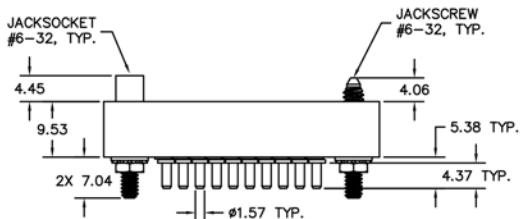
#### Environmental Specifications

**Operating Temperature:** -65° to +125°C

**Vibration:** 10Hz to 2,000Hz, 1.52mm, 147.1m/s<sup>2</sup> (15G), duration 12h

**RoHS:** Compliant

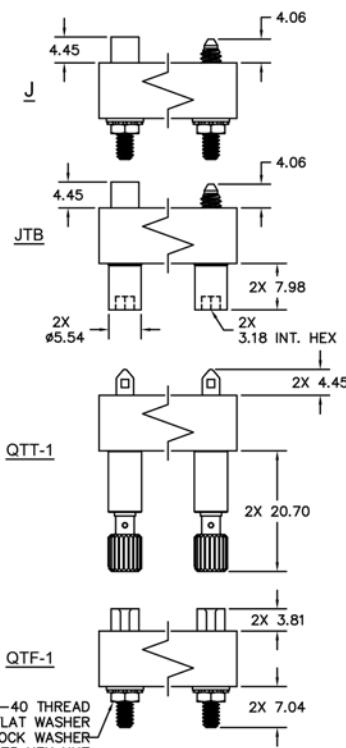
**iSeries**  
BASED ON MIL-SPEC. BUILT FOR INDUSTRIAL.



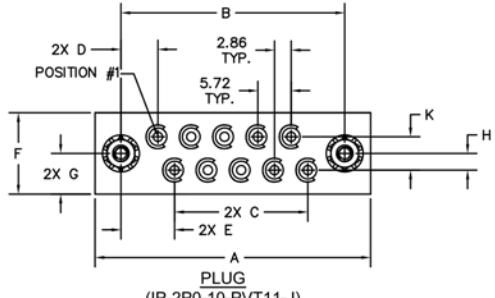
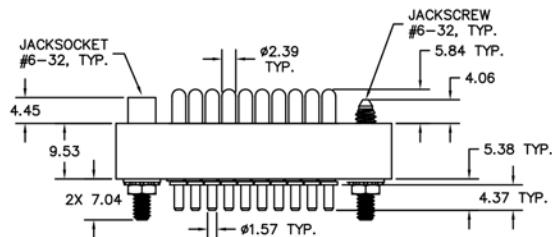
NOTES:

SIZE 5 - SINGLE ROW  
SIZE 10 - 2-ROW STAGGERED GRID  
SIZE 20 - 2-ROW SQUARE GRID

SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	K
5	44.45	35.56	22.86	6.35	N/A	9.53	4.78	N/A	N/A
10	47.29	38.40	22.86	6.35	9.22	13.97	6.99	2.86	5.72
20	73.03	64.14	51.44	6.35	6.35	13.97	6.99	2.86	5.72



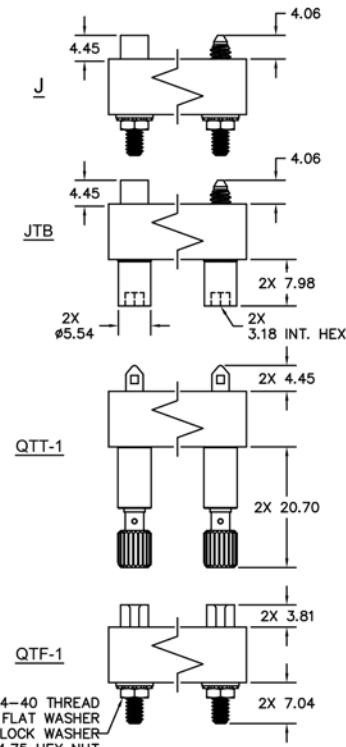
HARDWARE OPTIONS  
(J, JTB, QTT-1, QTF-1)



NOTES:

SIZE 5 - SINGLE ROW  
SIZE 10 - 2-ROW STAGGERED GRID  
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20	73.03	64.14	51.44	6.35	6.35	13.97	6.99	2.87	5.72



HARDWARE OPTIONS  
(J, JTB, QTT-1, QTF-1)

All dimensions  
in millimeters.