



ARINC 600 Press-Fit Power and Quadrax Contacts

More Sizes, More Choice in PCB Attach Connectors that Eliminate Soldering

ARINC 600 Press-Fit Power and Quadrax Contacts

Eliminate Soldering, Reduce Weight Up to 10%



WEIGHT-SAVING DESIGN

- Up to 10% lighter than equivalent standard receptacles (depending on insert arrangement)

LOWER COSTS

- Single-piece monoblock inserts simplify the manufacturing process, helping to reduce cost
- Stamped and formed, selectively plated contacts help provide cost savings over screw-machined contacts

COMPATIBLE

- Completely intermateable with existing ARINC 600 plug connectors
- Equivalent electrical performance vs. legacy design
- Stamped and formed contacts offer excellent performance and reliability

VERSATILE

- Solder tail or press-fit power and Quadrax contacts
- Available with selectively loaded contact configurations

APPLICATIONS

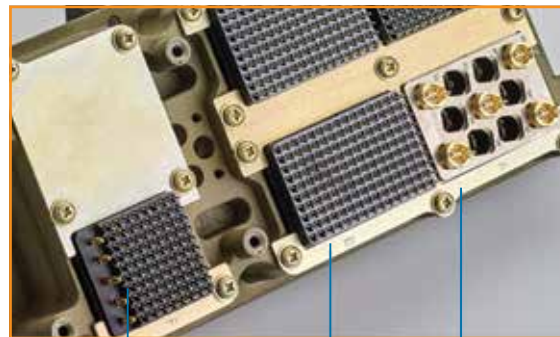
- In-Flight Entertainment
- In-Flight Networks
- Flight Controls and Communication
- Military Ground Vehicles

To simplify application and help lower costs, we were the first to offer size 22 contacts in a press-fit PCB attachment style. The addition of press-fit size 20, 16 and 12 power contacts, as well as press-fit Quadrax contacts to our ARINC 600 product portfolio, enable us to offer you a total press-fit PCB-attach connector solution.

ARINC 600 press-fit power and Quadrax receptacle contacts allow a complete press-fit receptacle solution that will provide manufacturing cost savings by eliminating the PCB soldering process. They also enable up to 10% weight savings (depending on insert arrangement) and backward compatibility, while delivering the high levels of performance and reliability you need.

For Applied Cost Savings during Board Assembly

Size 22 Press-Fit Contact System



Power

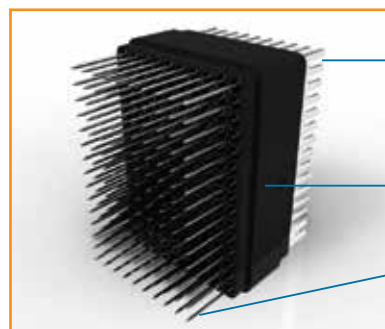
Signal

Quadrax

ALSO AVAILABLE IN NEXT GEN ARINC:

For Complete Backwards Compatibility with Legacy Applications

Size 22 Solder Tail Contact System



High-performance copper-alloy stamped contacts with selectively plated gold contact tips

One-piece insert

Contact solder tails

TE Components . . . TE Technology . . . TE Know-how . . .

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MATERIALS

- **Size 20, 16, 12 Power Contacts***
- **Quadrax Contact Outer Shell***
- **Quadrax Pin Contact***

* High strength copper alloy base.
TE offers various platings.

MECHANICAL/ENVIRONMENTAL

- **Connector Mating/Unmating Forces (after mating cycles):**
Size 2: 60 lbs (267 N)
Size 3: 105 lbs (467 N)
- **Maximum Installation Force (For Pressing Eye of the Needle Connector onto a PCB):**
Size 12 - 11 lbs
Size 16 - 11 lbs
Size 20 - 11 lbs
Size 22 - 8 lbs
Quadrax - 48 lbs
- **Durability:** 500 mating cycles
- **Vibration:** EIA-364-28, Test Condition V
- **Shock:** EIA-364-27, Test Condition A
- **Temperature Range:** -65°C to +125°C
- **Thermal Cycling:** 1000 hours at 125°C
- **Mixed Flowing Gas:** EIA-364-65, Class IIA
- **Process Capability Rating (Solder Tail Only):**
Wave solder processing (270°C for 10 seconds) and vapor phase processing (260°C for 2 minutes)
- **Salt Spray Tolerance:** MIL-STD-1344, Method 1001, Condition B
- **Fluid Imperviousness:** MIL-L-23699; MIL-H-5606: 1:3 mix isopropyl alcohol and mineral spirits (Test immersions of mated connectors in these fluids caused no evident deterioration)
- **Humidity Tolerance:** Insulation resistance: 1 megohm min., 1 to 2 hours after exposure to humidity per MIL-STD-1344, Method 1002-1, Type II 5000 megohms min. after 24 hours at 25°C

ELECTRICAL

- **Dielectric Withstanding Voltage (min.):**
1500 VAC_{rms}, 60 Hz at sea level
500 VAC_{rms}, 60 Hz at 50,000 ft. (15,240 m)
(Tested at rated voltages for 60 seconds produced no flashover and 1 mA leakage, max.)
- **Insulation Resistance:** 1000 megohms min.
(Test conducted on unmated connector after 30 min. exposure to 120°C to 125°C)
- **Contact Resistance:** Mated pairs tested per MIL-STD-1344, Method 3004-1
- **Current Ratings:**
5.0 A (Size 22 contacts)
7.5 A (Size 20 contacts)
13.0 A (Size 16 contacts)
23.0 A (Size 12 contacts)

STANDARDS AND SPECIFICATIONS

- **Industry Specification:** ARINC 600-19
- **Product Specifications:** 108-2384 and 108-32118
- **Application Specification:** 114-13272
- **Seating Tooling:** 230865
- **Product Validation Test Report:** 502-1263
- **Arrangements Available:**
60 Position (Size 1)
85 Position
100 Position
150 Position
68Q2 Position
120T2 Position
13CQ2 Position

For Ordering Information, Contact TE Connectivity.



LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

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Consult TE for the latest dimensions and design specifications.

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