



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%



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.

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

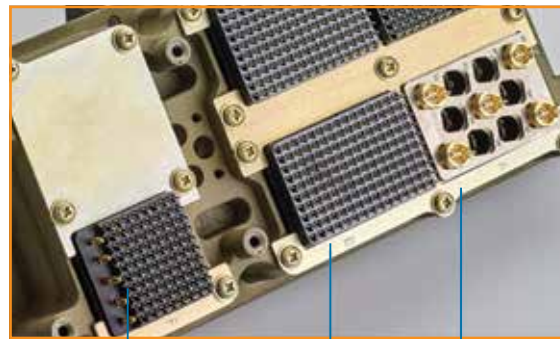
- Solder tail or press-fit power and Quadrax contacts
- Available with selectively loaded contact configurations

APPLICATIONS

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

For Applied Cost Savings during Board Assembly

Size 22 Press-Fit Contact System



Power

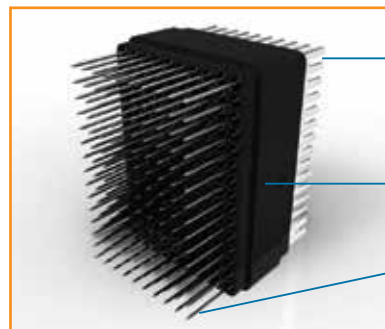
Signal

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 . . .

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem
SEACON | Rochester | DEUTSCH

Empower Engineers to Solve Problems, Moving the World Forward.



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.

