ARINC 600 NEXT GENERATION RECEPTACLE CONNECTOR
HISTORIC HIGH PERFORMANCE WITH UP TO 10% WEIGHT SAVINGS OVER STANDARD RECEPTACLES...BACKWARD COMPATIBILITY
**ARINC 600 NEXT GENERATION RECEPTACLE CONNECTOR**

The Same High Performance With Up To 10% Weight Savings Over Standard Receptacles

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**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, saving cost
• Stamped and formed, selectively plated contacts provide substantial 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 (eye of the needle) contacts
• Available with selectively loaded contact configurations

**APPLICATIONS**

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

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Whether you are designing collision avoidance systems, in-flight entertainment, or air-to-ground communications, you face a challenging economic environment and an ever-increasing demand for weight reduction. TE Connectivity’s (TE) ARINC 600 next generation receptacle connector allows you to reduce both weight and costs.

TE’s ARINC 600 next generation receptacle uses proven connector design principles that represent breakthrough technologies in the ARINC 600 connector marketplace. By combining stamped and formed contacts with a one-piece insert, we’ve lowered the cost and weight of ARINC 600 receptacle connectors without lowering performance.

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**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

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**For Applied Cost Savings during Board Assembly**

**Size 22 Press-Fit Contact System**

Eye of needle press-fit contact tails

One-piece insert

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

AMP | Agastat | CII | Hartman | Klovac | Microdot | Nanonics | Raychem | Rochester | DEUTSCH

Get your product to market faster with a smarter, better solution.
ARINC 600 Next Generation Receptacle Connector

STANDARDS AND SPECIFICATIONS

- **Industry Standard**: ARINC 600 - 18: Air Transport Avionics Equipment Interfaces
- **Product Specification (solder tail)**: 108-2423
- **Product Specification (EON design)**: 108-2384
- **Product Validation Test Report**: 502-1263
- **Application Specification (EON Design)**: 114-13272

MECHANICAL

- **Mating/Unmating Forces (after mating cycles)**:
  - Size 2: 60 lbs (267 N)
  - Size 3: 105 lbs (467 N)
- **Contact Retention Against Axial Load**: Size 22: 12 lbs (53 N)
- **Durability**: 500 mating cycles
  (In testing, wired mated connectors cycled at a rate slower than 300 cycles per hour, showed no apparent damage or contact resistance greater than rated values)
  (Testing to these conditions, including vibration for 8 hours in each of 3 mutually perpendicular axes, caused no visible cracking, breaking or loosening of parts, and no discontinuities exceeding 1 microsecond)

ENVIRONMENTAL

- **Temperature Range**: -65°C to 125°C
- **Process Capability Rating**: Wave solder processing (270°C for 10 seconds) and vapor phase processing (260°C for 2 minutes)
- **High-Temperature Tolerance**: 1000 hours min. at 125°C (Wired, mated connectors)
- **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 VACrms, 60 Hz at sea level
  500 VACrms, 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)
For More Information

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