

UltraJAX

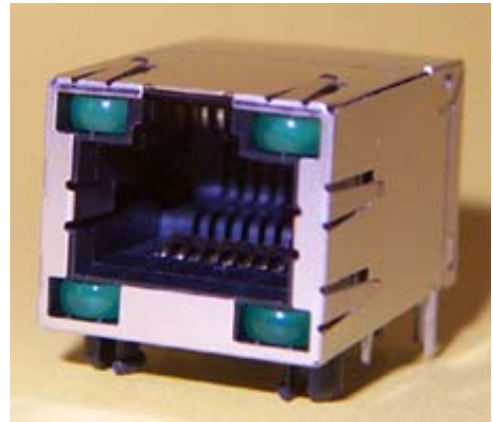
The Ultimate RJ Connector

Dual Function, High Density RJ

Revotech UltraJAX's design employs contact assemblies housed in both the top and the bottom of the UltraJAX female connector, providing double contact density within a standard sized RJ connector. UltraJAX's efficient design accepts existing, single-sided RJ11 and RJ45 male connectors in multiple directions supporting multiple functions, while UltraJAX double-sided male connectors utilize both sets of contacts, doubling the capacity and functionality of a single connector. Revotech UltraJAX doubles the port count of standard equipment in the networking and telephone equipment, as well as in any environment utilizing RJ connectivity.

Revotech UltraJAX are available in RJ45 and RJ11 formats, as well as RJ11/RJ45 combo. PCB mount UltraJAX female connectors may be designed into current and future products employing RJ connectivity, and UltraJAX keystone connectors insert into a standard wall plate, providing increased efficiency in the home or business. Both PCB mount and keystone type female UltraJAX accept existing, single-sided RJ male plugs or the new UltraJAX, double sided male plug and "Y-Cable." The UltraJAX male plug provides contacts on both the top and bottom, utilizing both sets of contacts in the RJ11, RJ45 or RJ45/RJ11 UltraJAX female connector.

Revotech UltraJAX effectively doubles the capacity and functionality with no increase in size, providing unprecedented efficiency. UltraJAX is a perfect connection for use on countless applications including computer motherboards, laptops, networking and telephone products. Revotech UltraJAX may be custom keyed for proprietary locking and insertion.



PRODUCT FACTS

- ✦ UltraJAX female connectors feature contacts in the top and bottom of the housing, providing double contact density and dual functionality.
- ✦ UltraJAX male plugs feature contacts in the top and bottom of the assembly, providing double contact density and dual functionality.
- ✦ UltraJAX female connectors receive existing, single sided male RJ plugs, as well as double sided UltraJAX male plugs.
- ✦ UltraJAX male plug mates up to 20 contacts utilizing both sets of contacts in the UltraJAX female connector.
- ✦ UltraJAX male plug is available in RJ11, RJ45, or in an RJ11/RJ45 combination.
- ✦ Customizable contact configurations.
- ✦ Optional gold plating.
- ✦ Various styles of inner/outer shields available.
- ✦ Multiple housing colors available (Gray/Black).
- ✦ UltraJAX manufactured under license for Patent.

- **Requirements for the Modular Jacks**

- Tests at ambient environmental conditions: 23+-3°C, 70+-10%RH

- **Electrical characteristics:**

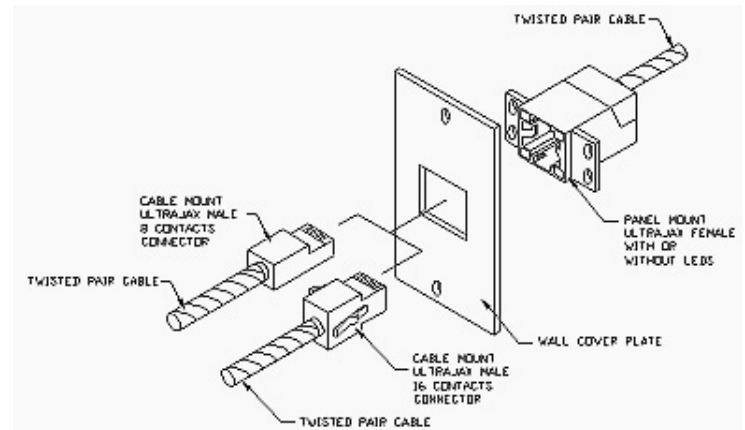
- Current rating: 1A max.
- Voltage rating: 150VAC max.
- Contact resistance: 20mohm max. (30mohm max. after environmental exposure)
- Dielectric withstanding voltage:
 - At 1,000Vems 1 min. (60Hz) between adjacent contacts
 - At 1,500Vrms 1 min. (60Hz) between shield and contacts
- Insulation resistance:
 - 500Mohm / 100VDC min. between adjacent contacts
 - 200Mohm / 100VDC min.
 - After environmental exposure
- Capacitance: <= 10pF at 100KHz

- **Mechanical characteristics:**

- Contact normal force: 100g min.
- Insertion force:
 - 2 contacts <= 1.6Kg f
 - 4 contacts <= 1.8Kg f
 - 6 contacts <= 2.1Kg f
 - 8 contacts <= 2.3Kg f
 - 10 contacts <= 2.5Kg f
 - 16 contacts <= 2.6Kg f
 - 20 contacts <= 2.6Kg f

- **Material:**

- Housing: pbt polyester UL-94V-0
- Standard color: black
- Terminal: 0.35mm thick phos-bronze plated with hard gold and tin/lead in solder area
- Shield -0.25mm thick copper alloy, plated with nickel



- **Environmental:**

- Humidity, steady state:
 - Relative humidity (95%)
 - Temperature: 40°C
 - Test condition: 96 hours
- High temperature life:
 - Test temperature: 65°C
 - Test duration: 144 hours
- Durability: number of cycles: 500, contact resistance (30mohm max.)
- Operating temperature: -40°C to 70°C

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