

The Ultimate RJ CONNECTOR

CAPABLE OF MULTIPLE APPLICATIONS AND USES

UltraJax is a revolutionary new RJ connector providing double the wire contact density of existing RJ Connectors. A printed circuit board is located in the center of the connector with contact pads on both the top and bottom of the board. The male UltraJAX plug has contact points on both the top and bottom of a slotted cavity which when inserted surrounds both the top and bottom of the printed circuit board. The UltraJax provides the capability of being used with both RJ11 and RJ45 with the use of adapter cables which have an UltraJAX male connector at one end and multiple RJ45 or RJ11 connectors at the other. UltraJax connectors have 16 contacts and therefore one UltraJAX connector provides the same capability as two RJ45 connectors. The UltraJAX 16 contacts can be configured as multiple RJ11/RJ45 combo connectors as well. The UltraJax male plug is design to not only provide double the contact capability but also provides a perfect solution for high-speed 10/100Mbps, Gigabit or 10Gb networking requirements. .

With the new UltraJax multi-port and stackable connectors, users have double the port count of existing non-UltraJax connectors with the use of the UltraJax male plug and optional adapter cables. The UltraJax male plug cannot misalign or bend when an RJ11 is inserted in an RJ45 position. UltraJax female connectors are provided with optional LEDs which provide status for both the connection on top and the bottom of the connector.

UltraJax is a perfect connection for use on computer motherboards, laptops, networking products, handheld products, and telephone products. UltraJax female are keyed for customize locking and insertion.



PRODUCT FACTS

- Doubles the Contact Capacity of Existing RJ45 connectors and Supports Multiple Applications
- UltraJax Female Connectors have Multiple Wire Assemblies located on the Top and Bottom inside the Connector. Male Modular RJ Plugs determine Which Wire Assembly They Attach To By Which Direction They Are Inserted Into The Connector Opening.
- UltraJax Optional Cable Adapters Provide Connections To Existing RJ45 and RJ11 cables.
- UltraJax Male Plug Mates Up to 12 wire contacts With An RJ11 Connector Type Plug and Up To 16 Wire Contacts With An RJ45.
- UltraJax is a Ruggedized Connector with no moving spring contacts
- UltraJAX are Keyed with Customized Locking Assure Excellent Connections To 16 Wire Cables.
- UltraJax manufactured under license for U.S. Patent Pending
- UltraJax soon to be available with integrated magnetic for 10/100Mbps and Gigabit.

LED MODULAR JACK SPECIFICATIONS

Mechanical

- **Durability** – 4500 mating cycles
- **Mating/Unmating Force** – 4.5 lbs. max.
- **Operating Temperature** - -40°C to 70°C
- **Storage Temperature** - -20°C to 85°C

Electrical

- **Current Rating** - 1.5 amp max. at 25°C
- **Voltage Rating** - 150 VAC max.
- **Dielectric Withstanding Voltage** – 1000 VAC
- **Insulation Resistance** – 500 megohms min.
- **Shielding Effectiveness** - 20dB min., 10 to 200 MHz

Material & Finish

- **Housing** - High temperature Nylon, Black, UL 94V-0 rated
- **Contact Pad** –0.33 Phosphor bronze Plated gold, nickel underplate
- **Shield** - 0.25 [.010] copper alloy, nichol plated



The UltraJAX Connector And Cables for Harsh Environments

The UltraJaX connectors have no exposed contact pins which can have corrosion issues in harsh environments. The UltraJAX's superior ruggedized connector design coupled with the embedded printed circuit board contact pad technology, provides improved system reliability, and advanced features ideal for your hardware being located in all environments. Pictured below is the UltraJAX to multiple (two) RJ45 adapter cable. Adapter cables are confirmed in many different arrangements using either RJ45 and RJ11 plugs or jacks depending on the applications.

UltraJAX Slotted Male Plug with 16 contact pads.



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