

Standard Modular Jacks



Efficient production processes deliver cost-effective Modular Jacks that ensure high performance and superior reliability across a wide range of Ethernet data speeds

Features and Benefits

RJ11 and RJ45 jacks in right-angle, vertical top/bottom-entry styles, through-hole or SMT soldering. Single-port, ganged and stacked multi-port versions

Delivers flexibility for a variety of design applications

Cat 3, Cat 5 and Cat 5e speeds available

Suitable for a wide range of applications

4, 6 and 8 contacts available

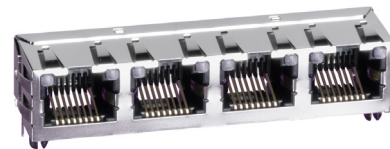
Meets the needs of a variety of applications

Low-profile versions

Allows for tight board stacking

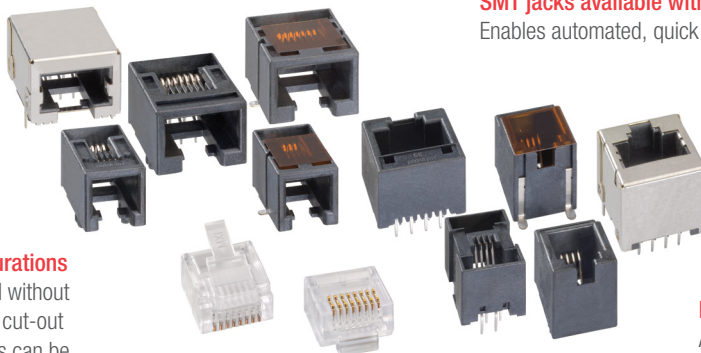
Shielding available for both plugs and jacks

Provides advanced EMI/RFI protection. External and internal shield available in many versions



SMT jacks available with Kapton tape

Enables automated, quick placement on PCBs



1.27µm (50µ") all-gold plating options

Meets FCC68.5, IEC60603-7. Approved for all FCC and IEC license applications

Various panel grounding tab configurations

Available with tabs and without tabs. Fits various panel cut-out needs. PCB ground tabs can be located either in front of or behind plastic peg

Palladium nickel and gold flash plating options

Achieves 2,500 mating cycles. Meets durability requirement of IEC60603-7 PL 2 and FCC68.5

Lightpipes available with modular jacks

Maintains high signal integrity performance. Reduces EMI/RFI

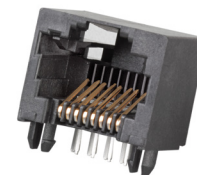


LED options, including lightpipes on modular jacks

Provides a visual indication of port activity

"Keep out" feature available

Latch prevents insertion of an RJ11 plug into an RJ45 housing, which can cause damage to contacts



Applications

Home Appliance

- Vending machines
- Cash registers
- Card swipes
- Gaming
- Printers
- Photo copiers
- Fax machines

Medical

- Home analysis monitors
- Bed monitors
- Breathing devices

Consumer

- Set-top boxes
- Home security
- Web TV
- Gaming devices

Telecommunications/Networking

- Servers
- Switches
- Patch panels
- Routers

Industrial

- Control units
- Vision systems
- Security systems
- Test equipment



Vending Machine



Router

Standard Modular Jacks



Specifications

REFERENCE INFORMATION

Packaging: Tape and Reel, Tube, Tray
UL File No.: E107635
CSA File No.: LR19980
Mates With: RJ11 Modular Jacks Mate with RJ11
Designed In: Inches
RoHS: Yes
Halogen Free: No

ELECTRICAL

Voltage (max.): 150 V rms AC
Current (max.): 1.5A
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: <5 mA
Insulation Resistance (min.): 500 Megohms

MECHANICAL

Plug Retention to Jack (min.): 89N
Mating Force, Shielded (max.): 22N
Mating Force, Unshielded (max.): 35N
Durability (max.): 500 Cycles

PHYSICAL

Housing: Nylon, Glass Filled, UL94V-0
Contact: Phosphor Bronze
Plating:
Contact Area — Gold
Solder Tail Area — Tin
Underplating — Nickel
PCB Thickness: 1.60mm
Operating Temperature: -40 to +85°C

Ordering Information

Series No.	Description	Ports
42410	Cat 3 Vertical Through-Hole Modjack	1
42878	Cat 3 Vertical Through-Hole Modjack	1
43202	Cat 3 Right-Angle Through-Hole Modjack	1
43223	Cat 3 Right-Angle Through-Hole Modjack	2,4,6,8
43249	Cat 3 Right-Angle Through-Hole Modjack	1
43743	Cat 3 Right-Angle SMT Modjack	1
43814	Cat 3 Right-Angle Through-Hole Modjack	2
43841	Cat 3 Right-Angle SMT Modjack	2
43860	Cat 3 Right-Angle Through-Hole Modjack	1
44050	Cat 5e Right-Angle Through-Hole Modjack	1
44144	Cat 3 Right-Angle SMT Modjack	1
44150	Cat 5e Right-Angle Through-Hole Modjack	2,4,6,8
44170	Cat 5e Right-Angle Through-Hole Modjack	8,12
44193	Cat 3 Right-Angle SMT Modjack	2
44248	Cat 3 Right-Angle Through-Hole Modjack	2,4
44282	Cat 3 Right-Angle SMT Modjack	1
44380	Cat 3 Right-Angle Through-Hole Modjack	1
44520	Cat 5e Right-Angle Through-Hole Modjack	8,12
44560	Cat 5e Right-Angle Through-Hole Modjack	2,4
44620	Cat 3 Right-Angle Through-Hole Modjack	1
44661	Cat 5e Right-Angle Through-Hole Modjack	1

www.molex.com/link/stdmodjack.html

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