Features and Benefits

- Signal integrity remains high due to no interference
- Compact design saves PCB real estate
- The RJ45 Lightpipe modular jack provides Category 5 level The plug latches are located at the top of the upper row performance for Ethernet applications
- Manufacturability is improved since there are no LED leads Fully shielded housing features enhanced grounding tabs to solder to the board
- Meets FCC 68.5 specification
- Molex modular jacks are 100% electrically tested



Molex's New Stacked Multi-port Modular Jack with Rework of LEDs is more efficient since the LED chip is Lightpipes Exceeds Category replaced on the PCB and the Molex stacked, multi-port jack 5 Level Performance, providing easy thumb depression for mating and unmating **Reduces Electrical** Interference and Saves PCB Each lightpipe arrow is divided to provide 2 indicators per **Real Estate**

Typical Applications

- Networking Products
- Hubs
- Routers

- Ethernet Switches
- Bridges

port

ATM Transmission Equipment

can be resoldered to the board

Traditional industry pin layout

Molex's new stacked, multi-port jack was tested in accordance with EIA/TIA 568A and surpassed all requirements for Category 5. The product is fully shielded with enhanced panel grounds to optimize shielding effectiveness.

The Molex lightpipe design replaces standard leaded LEDs integrated into other manufacturers' multi-port jacks. This innovative design allows the placement of any color surface mount LED on the PCB along with other surface mount components. Molex offers the flexibility to select any color or special LED requirements for specific applications. The Molex Category 5 stacked multi-port jack with lightpipes is then soldered to the board over the surface mount LEDs.

The patented lightpipes are located above the top row of the stacked multi-port jacks so hanging cables do not obstruct visibility. These lightpipes are designed as distinctive arrow shapes. The downward pointing arrow indicates activity on the lower port and the upward pointing arrow indicates activity on the upper port.

Placement of the Molex multi-port jack is easier as there are fewer leads to locate and solder on the board. This design maintains signal integrity because there is no inference from LED leads. The combination of PCB mounted LEDs and lightpipes reduces the potential for undesirable electrical noise being

radiated across transmission lines. PCB real estate is reduced since there are no integrated LEDs at each port.

The stacked multi-port modular jack with lightpipes is offered in a through hole version for wave soldering in 8-port (2 rows of 4 ports), 12-port (2 rows of 6 ports) and 16-port (2 rows of 8 ports) configurations.



查询"44170-0001"供应商

Features and Benefits

- Exceeds Category 5 performance
- Traditional industry pin layout
- Distinctive lightpipe arrow indicators
- Lower electrical noise than LED offerings
- 30% fewer leads than LED offeringsSpace saving design

Reference Information

Product Specification: PS-44170-0003 Packaging: Tray UL File No.: E107635 CSA File No.: LR149980 Mates With: FCC 68 Plugs Designed In: Inches

Electrical

Voltage: 125V Current: 1.5A max. Contact Resistance: $10m\Omega$ max. Dielectric Withstanding Voltage: 1000V AC Insulation Resistance: 500 M Ω min.

Mechanical Durability: 500 Cycles

Physical

Housing: Black glass-filled Polyester, UL 94V-0 Plating: Contact Area—1.27µm (50µ") min. Gold Solder Tails—1.27µm (50µ") Tin/Lead on both contact area and solder tails Underplating—Nickel Temperature: -40 to +80°C

molex[®] Modular Jack

44170

High Speed, Stacked, Multi-Port Right Angle Shielded with Lightpipes





ORDERING INFORMATION AND DIMENSIONS

Circuits	Loaded Contacts	No. of Ports	Order No.		Dimension		
			Snap Fit Pegs	Press Fit Pegs	А	В	C
8	8	8	44170-0001	44170-0004	59.18 (2.33)	8.89 (.350)	53.34 (2.10)
8	8	12	44170-0002	44170-0005	87.12 (3.43)	8.89 (.350)	81.28 (3.20)
8	8	16	44170-0003	44170-0006	115.06 (4.53)	8.89 (.350)	109.22 (4.30)

Note: Contact Inside Sales for 30µ" select Gold plating or for alternative rear and center grounding tab option order numbers.



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