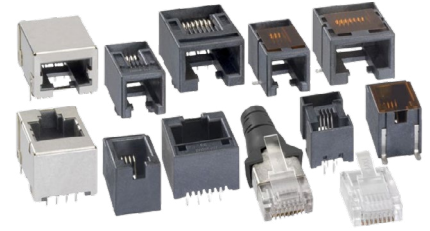


Modular Jacks and Plugs >

With a broad range of components, Modular Jacks and Plugs offer exceptional performance for voice, data and high-speed networking applications in addition to consumer, medical and industrial applications. By offering a wide array of configurations, including right-angle, vertical, single-port and multi-port versions, as well as options for enhanced EMI protection and durability, Molex's Modular Jacks and Plugs address the growing need for connectors that can handle high bandwidth and speed requirements.



ADVANTAGES AND FEATURES

Provides advanced EMI/RFI protection

The shielding of both plugs and jacks minimizes external interference, reduces radiated emissions and ensures signal integrity.

Provides significant flexibility in fitting different panel cut-out needs

The various panel grounding tab configurations on jacks ensure compatibility with a variety of panel cut-out sizes and mounting configurations. This flexibility enables reliable grounding, which improves both signal integrity and electromagnetic shielding while also providing mechanical stability.

Allows for tight board stacking

The low-profile jacks reduce the vertical height of the connectors, which enables better use of available PCB space and supports the design of compact, high-density systems that can fit into space-constrained enclosures.

Current (max.)	1.5A
Voltage (max.)	150V rms AC
Contact Resistance (max.)	20 milliohms
Mating Force, Shielded (max.)	35N
Mating Force, Unshielded (max.)	22N
Operating Temperatures	-40 to +85°C

Helps cater to various performance standards and capabilities

Modular Jacks and Plugs support a range of category ratings from Cat3 to Cat6 speed, which ensures compatibility with various network speeds and requirements.

Meets industry standard IEC60603-7 and is approved for all IEC license applications

The plating options ensure compliance with industry standards by providing excellent electrical performance, corrosion resistance and electromagnetic shielding.

Achieves 2,500 mating cycles

The palladium nickel and gold flash plating significantly contributes to the jack's ability to withstand 2,500 mating cycles by enhancing wear resistance, corrosion protection, electrical conductivity and mechanical stability.

Prevents the insertion of an RJ11 plug into an RJ45 housing

The "keep out" feature protects the contacts from damage by acting as a physical barrier, which ensures that only compatible plugs are inserted into the corresponding jack.

Modular Jacks and Plugs >

MARKETS AND APPLICATIONS

Telecommunications

Telephone systems
Patch panels
Internet connections

Networking

Servers
Switches
Routers

Appliances

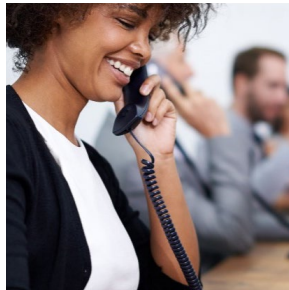
Vending machines
Gaming devices
Printers
Photo copiers
Fax machines

Industrial automation

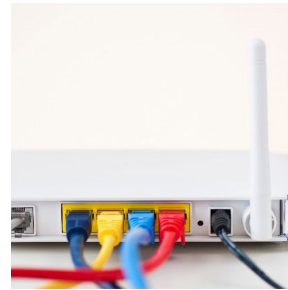
Control units
Security systems
Vision systems
Test equipment

Medtech

Patient monitoring systems
Diagnostic equipment



Telephone Systems



Routers



Printers



Control Units



Patient Monitoring Systems

SPECIFICATIONS

Reference Information

Packaging: Tray, tube, and tape and Reel
UL File No.: E107635
CSA File No.: LR19980
Mates With: IEC-60603-7/IEC-60603-7-1
RoHS: Yes
Low Halogen: No

Electrical

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

Mechanical

Plug Retention to Jack (min.): 89N
Mating Force, Shielded (max.): 35N
Mating Force, Unshielded (max.): 22N
Durability (max.): 500/750/2,500 Cycles

Electrical

Housing: Nylon/PBT/LCP
Contact: copper alloy
Plating:
Contact Area — gold/gold flash
Solder Tail Area — tin
Underplating — nickel/palladium nickel
PCB Thickness: 1.60mm
Operating Temperatures: -40 to +85°C

Modular Jacks and Plugs

ORDERING INFORMATION

SINGLE PORTS

Series	Orientation	Ports	Category	PCB attachment		Shielding	Visual Indication	Positions/Loaded Contacts	Height (mm)	Description			
				Signal tails	Body tails								
95009	Right angle	1	3	Through hole	Through hole	None	No	4/4 6/4 6/6 8/8	16.00	Flush or flange			
95501									11.50	Optional Key			
95622				Through hole, SMT				External shield	8/8	13.00	Shield tabs and solder pins		
95540					Internal shield	11.50		SMT or through hole shield tabs/nails					
85502				SMT	Through hole, SMT				None	4/4 6/4 6/6 8/8			
85542				Through hole, SMT		External shield							
85543			5e	Through hole, SMT	Through hole, SMT	8/8		13.00	Shield tabs				
85503				Through hole	Through hole				11.50	Unshielded through hole			
85504										Internal shield	Internally shielded		
85505								External shield		Optional EMI tabs			
43202				3					External none	4/2, 4/4, 6/2, 6/4, 6/6, 8/2, 8/4, 8/6, 8/8, 8/10	11.58/ 11.81.12.09	Ultra-low profile	
43249			6/2, 6/4, 6/6, 8/6, 8/8, 8/10			12.83/13.00					Shield option on 8-circuit only		
43743			SMT			SMT					None	6/2, 6/4, 6/6, 8/4, 8/6, 8/8	11.74
43860			Through hole			Through hole	External, none				Lightpipes/ No	6/2, 6/4, 6/6, 8/4, 8/8	13.21/13.53/ 13.54
44144			SMT		SMT	None	No	6/2, 6/4, 6/6, 8/2, 8/4, 8/6, 8/8	11.73	Inboard fitting nails			
44282								8/8	12.19	Low profile			
44380							External, none	Lightpipes/ No	6/4, 6/6, 8/4, 8/6, 8/8	13.21/ 13.53	Mini PCIe available with or without lightpipes		
44620								Lightpipe		13.21/ 13.46	RJ-11 keep-out feature, single lightpipe		
44050				5e				Through hole	Through hole	No	8/8	12.83/ 13.06	Option to omit side tabs for side-to-side stacking
44661			External			9.19/ 9.53	Three different shielding options						

Modular Jacks and Plugs

Series	Orientation	Ports	Category	PCB attachment		Shielding	LED	Positions/Loaded Contacts	Height (mm)	Description
				Signal tails	Body tails					
95503	Vertical	1	3	Through hole SMT		None	No	4/4 6/4 6/6 8/8	12.7 or 15.7	Flush or flange. Low or high profile
95522				Through hole						16.25
95551								6/6		
95552						Internal shield		Internally shielded flush or flange		
95623				External shield		16.50		Shielded top entry		
85510			SMT	SMT	None	4/4 6/4 6/6 8/8		15.70	SMT solder tabs, optional pick & place tape	
85513						None		12.70	None	
85506			5e	Through hole	Through hole	8/8		16.30	Unshielded through hole	
85507								Internal shield	16.25	Flush or flange
85508								External shield	16.50	Shielded top entry
85511								None	12.70 or 15.70	Low and high profile
42410			3	Through hole	Through hole	External		4/2, 4/4, 6/2, 6/4, 6/6, 8/2, 8/4, 8/6, 8/8	16.38	Flush/flangeless
42878						None		8/2, 8/4, 8/6, 8/8, 8/10	12.70	
43090					No			8/10		Radius housing

Modular Jacks and Plugs

MULTIPORTS

Series	Orientation	Ports	Category	PCB attachment		Shielding	LED	Positions/Loaded Contacts	Height (mm)	Description	
				Signal tails	Body tails						
43814	Right angle	2	3	Through hole	Through hole	None	No	6/2, 6/4, 6/6	12.70	Inverted flangeless	
43841								6/2, 6/4, 6/6, 8/4, 8/6, 8/8	11.80	Outboard fitting nails	
44193										Inboard fitting nails	
43223		2, 3, 4, 5, 6, 8	3			External, none	No	6/2, 6/4, 6/6, 8/4, 8/6, 8/8, 8/10	12.83/13.31	Multi-port, low profile	
44560		2, 4	5e					8/8	9.19/9.53	Low profile	
44150		2, 4, 6, 8	5e			External, none	No	8/8	12.83/13.31	Press-fit or snap-fit pegs	
44248		2, 4	3				Lightpipes	6/4, 6/6, 8/8	13.21/13.45	Inverted	
44170		8, 12, 16	5e			External	Lightpipes	8/8	25.41	Press-fit or snap-fit pegs	
44520							No				