

**A**

**Modular Plugs: Product Facts:** • FCC and TIA/EIA industry standard size and performance • True mass displacement termination of jacketed cable with tinsel, solid or stranded conductors • Available for round or flat-oval cable • One-piece construction with preloaded contacts • Selectively gold plated terminals • Plugs supplied in loose piece form, some available in strip form • Various positions and housing styles available • Semi-automatic and manual termination capabilities **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ **Mechanical Specifications:** • Cable-to-plug tensile strength: 17lbs. (76N) minimum • Durability: 750 mating cycles • Temperature Rating: -40°C – 60°C

**External Strain Relief: Product Facts:** • Positively engaged to the plug housing • Improved shield contact path redundant contact points • 360° wrap on cable jacket and shield foil, extraordinary strain relief • Improved shield coverage of housing • For 8 – 10 position plugs

**Single-Port Modular Jacks: Product Facts:** • Meets or exceeds FCC Part 68 rules and regulations; REA PE-76 and UL 1863 Communication Circuit Accessories • Meets 1000 volt dielectric requirement • Designed for direct mounting on PC boards • Designed for ease of soldering and board cleaning • Selectively gold plated contacts for lower cost • All jacks are UL 94V-0 flame retardant polyester, standard color black, unless specified otherwise **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum

• Dielectric Withstanding Voltage: 1000VAC, RMS, 60Hz, 1 minute • Surge Test: to 1000 volts **Mechanical Specifications:** • PC Board Retention: will not dislodge from PC board when subjected to 1lb. (4.4N) pull before soldering and 10lbs. (44N) pull after soldering • Durability: 750 mating cycles **Material and Finish:** • Housing: Thru-hole: Polyester, UL 94V-0 rated; Surface mount: Polyphenylene Sulfide, UL 94V-0 rated • Contact: .014 (0.36) thick phosphor bronze; plated .50µ" gold in contact area and 150µ" tin-lead on solder tails, over .50µ" nickel underplate

**Multi-Port Modular Jacks: Product Facts:** • Meets or exceeds FCC Part 68 rules and regulations with standard pc board footprints • Low profile and narrow width allow more ports to be packed into less space • Unshielded and shielded versions in popular size configurations • Positive connection throughout life of equipment with insert molded contacts • Accurately positioned solder tails reduce assembly labor while selectively deposited gold plating results in lower cost • Center mounting leg available on 8 port shielded and unshielded versions • Available with two grounding paths; pc board and panel **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ • Shielding Effectiveness: 20dB minimum, 10 – 200 MHz **Mechanical Specifications:** • Durability: 750 mating cycles • Mating/Unmating Forces: 5lbs. maximum • Operating Temperature: -40°C – 60°C **Material and Finish:** • Housing: High temperature nylon, black UL 94V-0 rated • Contact: .013 (0.33) phosphor bronze; plated .50µ" gold in localized area and 150µ" tin-lead on solder tails, over .50µ" nickel underplate • Shield: .010 (0.25) or .0077 (0.20) copper alloy tin-lead plated

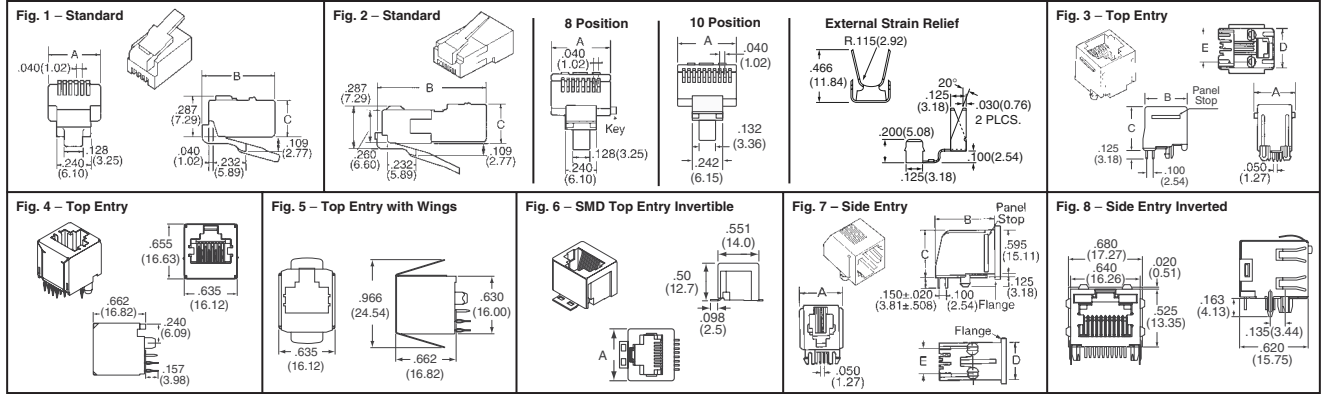


Fig.	Description	Positions Contacts	Dimensions - Inch (mm)					Digi-Key Part No.	Price Each			AMP Part No.	
			A	B	C	D	E		1	25	100		
<b>Modular Plugs and External Strain Relief</b>													
1	Plug, Handset, Stranded, Flat Oval	4-4	.300 (7.62)	.525 (13.33)	.260 (6.60)	—	—	A9091-ND	.34	.28	.21	5-641334-3	
	Plug, Stranded, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9092-ND	.34	.28	.21	5-641335-3	
	Plug, Solid, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9116-ND	.50	.41	.33	5-556384-3	
	Plug, Stranded, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9093-ND	.68	.56	.42	5-641337-3	
	Plug, Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9118-ND	.52	.42	.33	5-555042-3	
	Plug, Stranded, Round	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9117-ND	.48	.39	.31	5-554710-3	
	Plug, Small Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9119-ND	.46	.37	.30	5-557970-3	
	Plug, Long Body, Solid, Flat Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9120-ND	1.03	.83	.67	5-555426-3	
	Plug, Stranded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9122-ND	.97	.78	.63	5-555177-3	
	Plug, Stranded, Flat Oval, Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9121-ND	.97	.78	.63	5-555178-3	
	Plug, Stranded, Shielded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9128-ND	2.47	1.98	1.58	5-555175-3	
	Plug, Shielded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9027-ND	3.62	2.91	2.33	5-555174-2	
	Plug, Stranded, Flat Oval, Small	6-2	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24921-ND	.36	.29	.23	5-641333-2	
	Plug, Solid, Flat Oval, Small	6-4	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24922-ND	.58	.47	.38	5-557965-2	
	2	Plug, Stranded, Flat Oval	8-8	.460 (11.68)	.845 (21.46)	.312 (7.92)	—	—	A9094-ND	.77	.63	.48	5-554739-3
Plug, Solid, Flat Oval		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9126-ND	1.03	.83	.67	5-554720-3	
Plug, Solid, Round		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9123-ND	.77	.63	.50	5-557315-3	
Plug, Stranded, Round		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9125-ND	.73	.59	.47	5-554169-3	
Plug, Stranded, Small, Round, Cable		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24923-ND	.83	.67	.54	5-557961-2	
Plug, Solid, Round, Keyed		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9127-ND	.73	.59	.47	5-554170-3	
Plug, High Performance, Stranded, Round		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9059-ND	1.12	.90	.72	5-558530-3	
Plug, Stranded, Shielded, High Perform., Round		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9111-ND	2.44	1.96	1.57	5-569552-3	
Plug, Solid, Shielded, High Performance, Round		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9112-ND	2.55	2.04	1.64	5-569550-3	
Plug, Solid, Unshielded, High Performance		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24920-ND	1.14	.92	.74	5-569278-3	
Plug, Solid, Flat Oval, Small		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24924-ND	.77	.62	.50	5-557972-2	
Plug, Stranded, Flat Oval, Small		8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24925-ND	.80	.64	.52	5-557973-3	
Plug, Stranded, Shielded, Flat Oval		8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9113-ND	2.48	1.99	1.59	5-569542-3	
Plug, Stranded, Shielded, Round Long		8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9114-ND	2.57	2.06	1.65	5-569532-3	
Plug, Solid, Shielded, Round		8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9115-ND	2.46	1.97	1.58	5-569530-3	
3	Plug, Stranded, Round	10-10	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9129-ND	1.44	1.15	.92	5-557963-3	
	External Strain Relief Modular Connector	—	—	—	—	—	—	A9130-ND	—	.97	.87	558527-1	
	Crimp Tool Assembly, External Strain Relief	—	—	—	—	—	—	A9800-ND	290.86	—	—	224928-1	
	Die Set, Strain Relief Modular, use with A9996	—	—	—	—	—	—	A9801-ND	233.30	—	—	224928-2	
	Pro-Crimper II Hand Tool Without Die	—	—	—	—	—	—	A9996-ND	50.90	—	—	354940-1	
	<b>Single-Port Modular Jacks</b>												
	Jack With Stops	4-4	.555 (14.10)	.630 (16.00)	.650 (16.51)	.455 (11.56)	.300 (7.62)	A31409-ND	1.00	.87	.69	5520257-2	
	Jack With Stops	6-4	.635 (16.13)	.630 (16.00)	.650 (16.51)	.535 (13.59)	.400 (10.16)	A31410-ND	1.07	.92	.73	5520258-2	
	Jack With Panel Stops	6-6	.635 (16.13)	.630 (16.00)	.650 (16.51)	.535 (13.59)	.400 (10.16)	A31411-ND	1.10	.95	.75	5520258-3	
	Jack With Stops	8-8	.715 (18.16)	.630 (16.00)	.650 (16.51)	.625 (15.88)	.450 (11.43)	A31412-ND	1.12	.97	.77	5520259-4	
	Jack With Stops, Keyed	8-8	.715 (18.16)	.630 (16.00)	.650 (16.51)	.625 (15.88)	.450 (11.43)	A31413-ND	1.20	1.04	.82	5520260-4	
	Jack, Top Entry Without Stops	4-4	—	.630 (16.00)	.650 (16.51)	.455 (11.56)	.300 (7.62)	A31431-ND	1.07	.92	.73	5558872-1	
	Jack, Top Entry Without Stops	6-4	—	.630 (16.00)	.650 (16.51)	.535 (13.59)	.400 (10.16)	A31414-ND	1.25	1.08	.86	5520425-2	
	Jack, Top Entry Without Stops	6-6	—	.630 (16.00)	.650 (16.51)	.535 (13.59)	.450 (11.43)	A31415-ND	1.32	1.14	.90	5520425-3	
	Jack, Top Entry Without Stops	8-8	—	.630 (16.00)	.650 (16.51)	.625 (15.88)	.450 (11.43)	A31428-ND	.94	.82	.65	5556416-1	
Jack, Top Entry Without Stops, Keyed	8-8	—	.630 (16.00)	.650 (16.51)	.620 (15.75)	.450 (11.43)	A31425-ND	1.63	1.41	1.11	5555799-1		
Jack, Top Entry With Stops, Shielded	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A98458-ND	3.20	2.67	2.14	5557484-1		
Jack, Top Entry With Stops, Shielded	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A31430-ND	1.83	1.58	1.25	5557969-1		
Jack, Top Entry With Stops, Shielded	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A97708-ND	2.83	2.44	1.93	5557969-2		
Jack, Top Entry With Stops, Shielded, Keyed	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A31429-ND	1.92	1.65	1.31	555730-1		
Jack, Top Entry With Stops, Offset Latch	6-6	.630 (16.00)	.630 (16.00)	.645 (16.38)	.535 (13.59)	.400 (10.16)	A36246-ND	1.13	.98	.78	5554990-1		
Jack, Top Entry With Stops	6-6	0.630 (16.0)	0.5 (12.7)	0.646 (16.4)	—	—	A99307CT-ND†	1.67	—	1.01	216548-1		
Jack, Top Entry With Stops	6-6	0.630 (16.0)	0.5 (12.7)	0.646 (16.4)	—	—	A99307TR-ND‡	—	574.68/800	—	216548-1		
Jack, Top Entry With Stops	8-8	0.709 (18.00)	0.5 (12.7)	0.646 (16.4)	—	—	A99308CT-ND†	1.59	—	.96	216550-1		
Jack, Top Entry With Stops	8-8	0.709 (18.00)	0.5 (12.7)	0.646 (16.4)	—	—	A99308TR-ND‡	—	547.27/800	—	216550-1		

† Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

(Continued)

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