



NEW! IL-312 Series
0.50mm Connectors (Cont.)



Fig.	No. of Positions	Dimensions (mm)		Digi-Key Part No.	Price Each			JAE Part No.
		A	B		1	25	100	
SMD Receptacle								
	20	6.75	2.2	670-1732-ND	3.21	1.98	1.68	IL-312-A20S-VF-A1
	40	11.75	2.2	670-1898-ND	2.63	1.62	1.38	IL-312-A40S-VF-A1
	50	14.25	2.2	670-2478-ND	5.93	3.36	3.16	IL-312-A50S-VF-A1
	60	16.75	2.2	670-2479-ND	7.00	3.97	3.74	IL-312-A60S-VF-A1
	70	19.25	2.2	670-1738-ND	7.91	4.62	4.22	IL-312-A70S-VF-A1
	80	21.75	2.2	670-1910-ND	8.82	5.15	4.71	IL-312-A80S-VF-A1
	100	26.75	2.2	670-1730-ND	9.68	6.59	5.81	IL-312-A100S-VF-A1
	20	6.75	2.7	670-1733-ND	3.21	1.98	1.68	IL-312-A20S-VFH05-A1
	30	9.25	2.7	670-1895-ND	3.74	2.18	2.00	IL-312-A30S-VFH05-A1
	40	11.75	2.7	670-1899-ND	4.85	2.83	2.59	IL-312-A40S-VFH05-A1
	50	14.25	2.7	670-1902-ND	5.93	3.46	3.16	IL-312-A50S-VFH05-A1
	60	16.75	2.7	670-1905-ND	7.00	4.09	3.74	IL-312-A60S-VFH05-A1
	70	19.25	2.7	670-1739-ND	7.91	4.62	4.22	IL-312-A70S-VFH05-A1
	80	21.75	2.7	670-1911-ND	8.82	5.15	4.71	IL-312-A80S-VFH05-A1
	100	26.75	2.7	670-1731-ND	9.68	6.59	5.81	IL-312-A100S-VFH05-A1
	20	6.75	2.2	670-1892-ND	3.21	1.98	1.68	IL-312-A20SB-VF-A1
	30	9.25	2.2	670-1896-ND	3.74	2.18	2.00	IL-312-A30SB-VF-A1
	40	11.75	2.2	670-1900-ND	4.85	2.83	2.59	IL-312-A40SB-VF-A1
	50	14.25	2.2	670-1903-ND	5.93	3.46	3.16	IL-312-A50SB-VF-A1
	60	16.75	2.2	670-1906-ND	7.00	4.09	3.74	IL-312-A60SB-VF-A1
	70	19.25	2.2	670-1907-ND	7.91	4.62	4.22	IL-312-A70SB-VF-A1
	80	21.75	2.2	670-1912-ND	10.27	6.99	6.17	IL-312-A80SB-VF-A1
	100	26.75	2.2	670-1889-ND	9.68	6.59	5.81	IL-312-A100SB-VF-A1
	20	6.75	2.7	670-1893-ND	3.21	1.98	1.68	IL-312-A20SB-VFH05-A1
	30	9.25	2.7	670-1897-ND	3.74	2.18	2.00	IL-312-A30SB-VFH05-A1
	50	14.25	2.7	670-1904-ND	5.93	3.46	3.16	IL-312-A50SB-VFH05-A1
	60	16.75	2.7	670-1736-ND	7.00	4.09	3.74	IL-312-A60SB-VFH05-A1
	70	19.25	2.7	670-1738-ND	7.91	4.62	4.22	IL-312-A70SB-VFH05-A1
	80	21.75	2.7	670-1913-ND	8.82	5.15	4.71	IL-312-A80SB-VFH05-A1
	100	26.75	2.7	670-1890-ND	9.68	6.59	5.81	IL-312-A100SB-VFH05-A1

NEW! IL-AG5 / 7 / 9 Series
2.5mm Automotive Connectors



IL-AG5/IL-AG7 Series: Features: • Designed for automotive instrument panel applications • Mechanical lock assures positive mating • Unique housing configuration helps prevent mismatching • Double locking mechanism prevents dislodging of contacts
Specifications: • Contact Spacing: 2.5mm (.098") • Current Rating: 3A per contact • Dielectric Withstanding Voltage: 1000VACr.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 10mΩ max. • Operating Temperature: -40°C - 85°C
Applicable Wire (Stranded): • AV, AVS, AVSS: 22 - 20AWG • AVS, AVSS: 18AWG
Materials and Finishes: • Insulator: PBT • Pin Contact: Brass/ Tin plating, Cable plug pin contact: Highly conductive Copper alloy • Socket Contact: Phosphor Bronze/ Tin plating
IL-AG9 Series: Features: • Uses the existing 025 contact tab size (0.64 x 0.64) IL-AG5 terminals • Structure with a key to prevent twisted mating, mis-mating or reverse insertion • Mechanical lock method for withstanding vibration and pulling
Specifications: • Contact Spacing: 2.50mm (.098") • Contact Resistance: 10mΩ max. (initial) • Withstanding Voltage: 1000VACr.m.s. for one minute • Operating Temperature: -40°C - 85°C • Rated Current: 3A • Insulation Resistance: 100MΩ min. (initial) • Rated Life: 50 cycles
Applicable Wire: • AV, AVS, AVSS: 22 - 20AWG • AVS, AVSS: 18AWG
Materials and Finishes: • Insulator: PBT/ Color: green • Relay Pin Contact: Copper alloy/ Tin plating • Socket Contact: Phosphor Bronze/ Tin plating

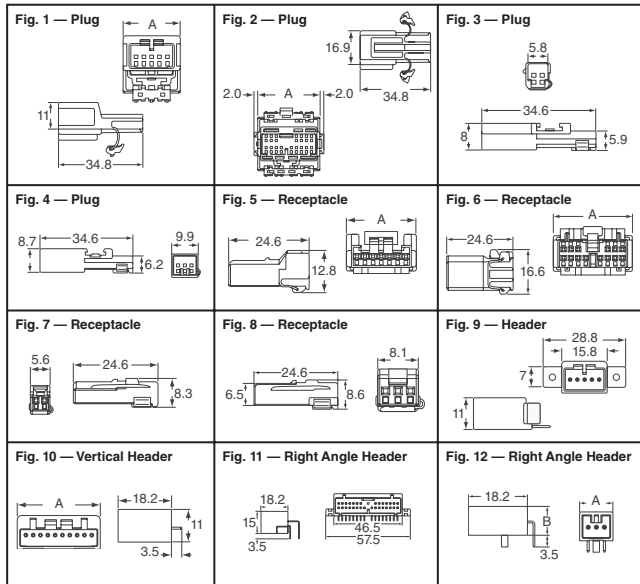
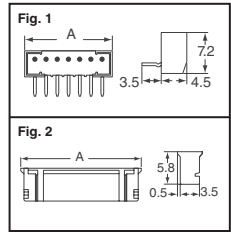


Fig.	No. of Positions	Dimensions (mm)		Digi-Key Part No.	Price Each			JAE Part No.
		A	B		1	25	100	
Plug								
	5	18.3	—	670-2209-ND	1.39	.87	.70	IL-AG5-5P-S3C1
	7	23.3	—	670-2210-ND	3.00	1.82	1.55	IL-AG5-7P-S3C1
	16	30.8	—	670-2208-ND	3.33	2.02	1.72	IL-AG5-16P-D3C1
	22	38.3	—	670-1817-ND	3.95	2.23	1.78	IL-AG5-22P-D3C1
	3	—	—	670-2410-ND	.73	.37	.30	IL-AG9-2P-S3C1
	4	—	—	670-2215-ND	2.33	1.46	1.17	IL-AG9-3P-S3C1

Fig.	No. of Positions	Dimensions (mm)		Digi-Key Part No.	Price Each			JAE Part No.	
		A	B		1	25	100		
Receptacle									
	7	21.1	—	670-2211-ND	1.30	.82	.66	IL-AG5-7S-S3C1	
	7	21.1	—	670-2212-ND	1.00	.59	.48	IL-AG5-7S-S3C1-B	
	5	—	—	670-1802-ND	.54	.27	.21	IL-AG5-5SK-S3C1-LB	
	5	16.1	—	670-1799-ND	.54	.27	.21	IL-AG5-5S-S3C1	
	6	18.6	—	670-1800-ND	.61	.31	.23	IL-AG5-6S-S3C1	
	10	28.6	—	670-1814-ND	.67	.34	.27	IL-AG5-10S-S3C1	
	14	26.7	—	670-1815-ND	1.35	.68	.54	IL-AG5-14S-D3C1-A	
	16	29.2	—	670-1816-ND	1.57	.89	.71	IL-AG5-16S-D3C1-A	
	22	36.7	—	670-2407-ND	1.66	.94	.75	IL-AG5-22S-D3C1	
	30	46.7	—	670-1818-ND	2.22	1.49	1.26	IL-AG5-30S-D3C1	
	7	2	—	670-2133-ND	.61	.31	.23	IL-AG9-2S-S3C1	
	8	3	—	670-2217-ND	1.19	.71	.57	IL-AG9-3S-S3C1	
Header									
	5	—	—	670-2214-ND	2.00	1.22	1.04	IL-AG7-5P-S3T2	
Vertical Header									
	4	13.3	—	670-1819-ND	2.96	1.98	1.68	IL-AG5-4P-S3T2	
	5	15.8	—	670-2409-ND	1.17	.66	.53	IL-AG5-5P-S3T2	
	10	28.3	—	670-1813-ND	2.06	1.17	.93	IL-AG5-10P-S3T2	
Right Angle Header									
	30	—	—	670-2131-ND	4.32	3.03	2.77	IL-AG7-30P-D3L2	
	4	13.3	—	670-2408-ND	1.89	.95	.85	IL-AG5-4P-S3L2	
	5	15.8	11	670-1812-ND	1.51	.76	.61	IL-AG5-5P-S3L2-LB	
	3	10.3	8.9	670-2216-ND	3.62	2.20	1.87	IL-AG9-3PL-S3L2	
Contacts									
				Crimp Socket Tin 18 - 22 AWG	670-1785-1-ND†	.20	.09	.08	IL-AG5-C1-5000
				Socket Gold 18 - 22 AWG	670-2213-ND	.80	.41	.33	IL-AG5-C1-IE-5000
				Pin Tin 18 - 22 AWG	670-1790-1-ND†	.28	.12	.10	IL-AG5-PC1-5000
					670-1790-2-ND‡	282.07/5,000			IL-AG5-PC1-5000

† Cut Tape ‡ Tape and Reel

NEW! IL-S Series
2.0mm Connectors

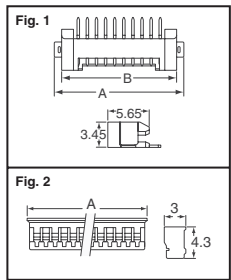


Features: • Box type pin header prevents mismatching • Design prevents flux wicking
Specifications: • Current Rating: 3A • Operating Voltage: 300VAC, 400VDC • Dielectric Withstanding Voltage: 1,000VACr.m.s. (one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 20mΩ max. • Applicable Wire: 24 - 28AWG, stranded • Operating Temperature: -40°C - 85°C
Materials and Finishes: • Insulator: 6-6 Nylon (UL94V-0, Light Brown) • Pin Contact: Brass/Tin plating over Nickel • Socket Contact: Phosphor Bronze/ Tin plated

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Pricing			JAE Part No.
				1	25	100	
Header							
	3	7.6	670-2228-ND	.34	4.21	12.62	IL-S-3P-S2L2-EF
Receptacle							
	3	7.6	670-2220-ND	.18	1.96	6.17	IL-S-3S-S2C2
	8	17.6	670-1751-ND	.34	3.86	12.62	IL-S-8S-S2C2
	8	17.6	670-2223-ND	.34	4.21	14.03	IL-S-8S-S2C2-S
	—		Crimp Socket Tin 24 - 28 AWG	.11	1.40	3.71	IL-S-C2-10000
	—		670-2368-2-ND‡	203.55/10,000			IL-S-C2-10000

† Cut Tape ‡ Tape and Reel

NEW! IL-Z Series
1.25mm Connectors



Features: • Crimp type for efficient wire termination • High reliability socket contacts • Boxed pin header design prevents mismatching • Anti-wicking feature
Specifications: • Current Rating: AC/DC 1A per contact • Dielectric Withstanding Voltage: 500VACr.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 20mΩ max. • Operating Temperature: -40°C - 70°C • Applicable Wire: 32 - 28AWG (stranded) • Voltage Rating: AC/DC 200V
Materials and Finishes: • Insulator: Pin Header and Socket Housing: 6-6 Nylon (UL94V-0, Light Brown), SMT Pin Header: PPS (UL94V-0, Light Gray) • Pin Contact: Brass/ Tin plating • Socket Contact: Phosphor Bronze/ Tin plating • Hold-down: Phosphor Bronze/ Tin plating

Fig.	No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Pricing			JAE Part No.	
		A	B		1	25	100		
Header									
	2	7.65	5.65	670-1752-ND	.84	10.53	33.66	IL-Z-2PL-SMTYE	
Receptacle									
	2	3.95	—	670-1753-ND	.24	2.74	8.42	IL-Z-2S-S125C3	
	—			Crimp Socket Tin	670-2369-1-ND†	.19	2.20	6.64	IL-Z-C1-A-7000
	—			22 - 26 AWG	670-2369-2-ND‡	297.78/7,000		IL-Z-C1-A-7000	
	—			Socket Tin	670-2370-1-ND†	.10	1.10	3.32	IL-Z-C3-A-15000
	—			28 - 32 AWG	670-2370-2-ND‡	299.25/15,000		IL-Z-C3-A-15000	
	—			Socket Gold	670-2231-1-ND†	.20	2.50	6.57	IL-Z-C3-A-1-15000
	—			28 - 32 AWG	670-2231-2-ND‡	449.22/15,000		IL-Z-C3-A-1-15000	

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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