Contacts (Pins and Sockets) – Series 1, 2, 3 and 4

Series 4 requires a combination of Fig. 5 and 6.

Fig. 1 – Crimp

Fig. 2 – Solder Tab

Fig. 3 – Crimp with Insulation Support

Fig. 4 – Contacts

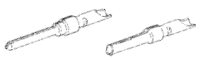


Fig. 5 – Power Contacts

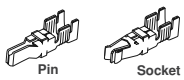


Fig. 6 – Crimp

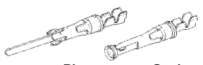


Fig.	Desc.	Type	Wire Size AWG	Contact Finish	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Series 1								
1	Pin	Crimp	18-14	Tin	A1320-ND	.34	.24	66361-2
	Socket	Crimp	18-14	Tin	A1321-ND	.40	.28	66360-2
	Socket	Crimp	18-14	SG†	A1341-ND	.77	.54	66360-4
	Pin	Crimp	18-14	SG†	A1650-ND	.52	.36	66361-4
1	Pin	Crimp	18-16	SG†	A1340-ND	.51	.36	66099-4
	Socket	Crimp	18-16	SG†	A16080-ND	.61	.43	66101-4
	Pin	Crimp	18-16	Tin	A1649-ND	.34	.24	66099-2
	Socket	Crimp	18-16	Tin	A1665-ND	.40	.28	66101-2
1	Pin	Crimp	24-20	SG†	A1648-ND	.51	.36	66400-4
	Socket	Crimp	24-20	SG†	A1661-ND	.61	.43	66399-4
	Pin	Crimp	24-20	Tin	A1647-ND	.34	.24	66400-1
	Socket	Crimp	24-20	Tin	A1656-ND	.40	.28	66399-1
1	Pin	Crimp	24-20	Tin	A1322-ND	.34	.24	66103-2
	Socket	Crimp	24-20	Tin	A1323-ND	.40	.28	66105-2
	Pin	Crimp	24-20	SG†	A1342-ND	.51	.36	66103-4
	Socket	Crimp	24-20	SG†	A1343-ND	.61	.43	66105-4
1	Pin	Crimp	26-24	Tin	A1324-ND	.35	.24	66107-2
	Socket	Crimp	26-24	Tin	A1654-ND	.62	.43	66109-2
	Pin	Crimp	26-24	SG†	A1344-ND	.51	.36	66107-4
	Socket	Crimp	26-24	SG†	A1345-ND	.61	.43	66109-4
2	Pin	Solder	—	Tin	A1629-ND	.77	.54	202236-2
	Socket	Solder	—	Tin	A1631-ND	.85	.59	202237-2
	Pin	Solder	—	Duplex‡	A16081-ND	1.36	.95	202236-1
	Socket	Solder	—	Duplex‡	A1668-ND	1.52	1.06	202237-1
Signal Contact – Series 2								
3	Pin	Crimp	24-20	SG*	A1008-ND	.18	.17	1-66506-0
	Socket	Crimp	24-20	SG*	A1009-ND	.19	.18	1-66504-0
3	Pin	Crimp	24-20	SG†	A1679-ND	.18	.17	66506-9
	Socket	Crimp	24-20	SG†	A1680-ND	.19	.18	66504-9
4	Pin	Solder	24-20	SG†	A1028-ND	.25	.15	66570-3
	Socket	Solder	24-20	SG†	A1029-ND	.30	.27	66569-3

Fig.	Desc.	Type	Wire Size AWG	Contact Finish	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Series 3								
5	Pin	Crimp	16 & 14-12	Tin	A16021-ND	1.77	1.24	66261-1
	Socket	Crimp	16 & 14-12	Tin	A16025-ND	3.22	2.25	66740-8
	Pin	Crimp	16 & 14-12	SGΔ	A16022-ND	4.44	3.11	66261-2
	Socket	Crimp	16 & 14-12	SGΔ	A16026-ND	5.49	3.84	66740-6
5	Pin	Crimp	10	Tin	A16023-ND	1.77	1.24	66259-1
	Socket	Crimp	10	Tin	A16027-ND	4.19	2.93	66741-8
	Pin	Crimp	10	SGΔ	A16024-ND	4.57	3.19	66259-2
	Socket	Crimp	10	SGΔ	A16028-ND	6.08	4.25	66741-6
Series 4 — Requires a combination of Fig. 5 & 6								
6	Pin	Crimp	18-14	Tin	A1320-ND	.34	.24	66361-2
	Pin	Crimp	18-14	SGΔ	A1340-ND	.51	.36	66099-4
	Socket	Crimp	18-14	Tin	A1321-ND	.40	.28	66360-2
	Socket	Crimp	18-14	SGΔ	A1341-ND	.77	.54	66360-4
	Pin	Crimp	18-14	SGΔ	A1650-ND	.52	.36	66361-4
6	Socket	Crimp	18-16	SGΔ	A16080-ND	.61	.43	66101-4
	Pin	Crimp	18-16	Tin	A1649-ND	.34	.24	66099-2
	Socket	Crimp	18-16	Tin	A1665-ND	.40	.28	66101-2
6	Pin	Crimp	24-20	SGΔ	A1648-ND	.51	.36	66400-4
	Socket	Crimp	24-20	SGΔ	A1661-ND	.61	.43	66399-4
	Pin	Crimp	24-20	Tin	A1647-ND	.34	.24	66400-1
	Socket	Crimp	24-20	Tin	A1656-ND	.40	.28	66399-1
	Socket	Crimp	26-24	Tin	A1654-ND	.62	.43	66109-2
6	Pin	Crimp	24-20	Tin	A1322-ND	.34	.24	66103-2
	Pin	Crimp	24-20	SGΔ	A1342-ND	.51	.36	66103-4
	Socket	Crimp	24-20	Tin	A1323-ND	.40	.28	66105-2
	Socket	Crimp	24-20	SGΔ	A1343-ND	.61	.43	66105-4
6	Pin	Crimp	28-24	Tin	A1324-ND	.35	.24	66107-2
	Pin	Crimp	28-24	SGΔ	A1344-ND	.51	.36	66107-4
	Socket	Crimp	28-24	SGΔ	A1345-ND	.61	.43	66109-4

† Selective gold, gold flash over .000050 nickel on entire contact, with .000030 gold on electrical engagement area.
‡ Duplex plated .000030 gold in mating area over .000050 nickel on contact body; bright tin-lead on solder tab.
* Gold flash over nickel on entire contact. Δ Selective gold, .000030 selective gold over .000030 nickel.

AMP Circular Plastic Connector Sealing Accessories

Fig. 1

Fig. 2

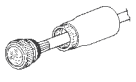


Fig. 3

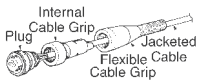


Fig. 4

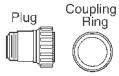


Fig. 5

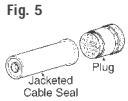


Fig. 6

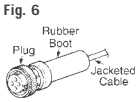


Fig. 7

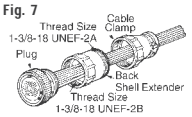


Fig. 8

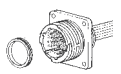


Fig.	Description	Shell Size	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Sealing Cap for Receptacles, Plastic Strap	11	A16038-ND	2.58	2.40	206903-1
	Sealing Cap for Receptacles, Plastic Strap	13	A16039-ND	2.36	2.19	211870-1
	Sealing Cap for Receptacles, Plastic Strap	17	A16040-ND	2.79	2.59	207445-1
	Sealing Cap for Receptacles, Plastic Strap	23	A16041-ND	3.22	2.99	207446-1
1	Sealing Cap for Receptacles, Metal Bead Chain	11	A16042-ND	4.33	4.01	208800-1
	Sealing Cap for Receptacles, Metal Bead Chain	13	A16043-ND	5.13	4.75	213485-1
	Sealing Cap for Receptacles, Metal Bead Chain	17	A16044-ND	4.16	3.86	208652-1
	Sealing Cap for Receptacles, Metal Bead Chain	23	A16045-ND	5.00	4.64	208680-1
2	Cable Entry Seal, Heat Shrinkable Sealing Boots	11	A16046-ND	5.90	5.48	54010-1
	Cable Entry Seal, Heat Shrinkable Sealing Boots	13	A16047-ND	6.52	6.05	54123-1
	Cable Entry Seal, Heat Shrinkable Sealing Boots	17	A16048-ND	6.42	5.95	54011-1
	Cable Entry Seal, Heat Shrinkable Sealing Boots	23	A16049-ND	7.20	6.67	54012-1
3	Flexible Cable Boot, Black Thermoplastic	11	A16050-ND	1.70	1.58	207489-1
	Flexible Cable Boot, Black Thermoplastic	17	A16052-ND	3.08	2.85	207241-1
3	Internal Cable Grip, Black Thermoplastic	11	A16051-ND	1.85	1.71	207490-1
	Internal Cable Grip, Blk. Thermoplastic 8.25mm	17	A16053-ND	2.56	2.38	207387-1
	Internal Cable Grip, Blk. Thermoplastic 9.78mm	17	A16054-ND	2.48	2.30	207387-2
4	Replacement Coupling Ring	11	A16055-ND	.72	.68	213811-1
	Replacement Coupling Ring	13	A16056-ND	1.02	.95	213813-1
	Replacement Coupling Ring	17	A16057-ND	.81	.76	213810-1
	Replacement Coupling Ring	23	A16058-ND	1.30	1.21	213812-1
5	Jacketed Cable Seals, Cable Dia. 7.62mm	23	A16063-ND	10.15	9.41	207052-1
	Jacketed Cable Seals, Cable Dia. 11.43mm	23	A16064-ND	16.83	15.60	207052-2
	Jacketed Cable Seals, Cable Dia. 15.24mm	23	A16065-ND	9.39	8.71	207052-3
6	Rubber Boots*	11	A16059-ND	3.30	3.06	206304-1
7	Back Shell Extenders	23	A16062-ND	3.08	2.85	207055-1
8	Peripheral Seals for Receptacles Only	11	A1335-ND	.56	.45	206403-1
	Peripheral Seals for Receptacles Only	13	A1336-ND	.82	.66	206403-4
	Peripheral Seals for Receptacles Only	17	A1337-ND	.63	.51	206403-2
	Peripheral Seals for Receptacles Only	23	A1338-ND	1.15	.93	206403-3
Keying Plug, Series 1 & 4			A16066-ND	.16	.14	200821-1
Keying Plug, Series 2			A16067-ND	.35	.33	206509-1
Keying Plug, Series 3 & 4 (Socket Cavities)			A16068-ND	.52	.49	206508-1
Keying Plug, Series 3 & 4 (Pin Cavities)			A16069-ND	1.41	1.31	207597-1

* Rubber boots are used with jacketed cable to provide splashproof connections for Series 1 & 3 connectors. Black neoprene.

AMP NEW! Flexible Corrugated Tubing and Connectors

Fig. 1 - All-plastic Tubing

Fig. 2 - Straight Tubing Connections

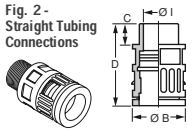
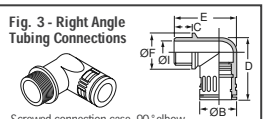


Fig. 3 - Right Angle Tubing Connections



Screwed connection case, 90° elbow type and fixed PG connecting thread DIN 40430

PLASTIC TUBING: • **Properties:** Air- and liquid-tight, oil resistant up to +80°C, benzine resistant, highly resistant to acids and solvents, ozone resistant, free of silicon, cadmium and halogen, self-extinguishing and flame retarding • **Temperature Range:** Approximately -40°C to +115°C, temporarily withstands temperatures up to approx. +150°C • **Color:** Black • UL File No. E86359, GGVS certified

CONNECTIONS: • One-piece plastic quick screw connection with PG-thread acc. to DIN 40430 for corrugated tubings • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** From approximately -30°C up to +100°C • **Color:** Black • GGVS certified

Trade Size Tubing Outer Dia. - In. (mm)	Bending Radius (mm) ±10%	Digi-Key Part No.	Note: X in Part No. = Meters Per Roll Price Per Roll 5 meter	10 meter	25 meter	50 meter	AMP Part No.
Fig. 1 — All-Plastic Tubing							
0.51 (13.0)	20	A16090-X-ND	11.70	21.45	48.75	78.00	969789-2
0.62 (15.8)	35	A16091-X-ND	14.70	26.95	61.25	98.00	969789-3
0.83 (21.2)	45	A16092-X-ND	24.00	44.00	100.00	160.00	969789-4
1.12 (28.5)	55	A16093-X-ND	37.65	69.03	156.88	251.00	969789-5

Trade Size Tubing Outer – Dia. Inch (mm)	Thread DIN 40430 PG	Smallest Inner ø	Dimensions (mm) Largest Inner øB	Thread Length C	Total Length D	Total Height E	Connection øF	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 2 — Panel Mount Straight Tubing Connections											
0.51 (13.0)	9	10.0	20.0	10	35.0	—	—	A16094-ND	1.60	1.53	969803-2
0.62 (15.8)	11	12.5	23.0	10	37.0	—	—	A16095-ND	1.62	1.56	969803-3
0.83 (21.2)	16	17.0	29.5	12	43.5	—	—	A16096-ND	1.70	1.64	969803-4
1.12 (28.5)	21	23.5	37.0	12	46.0	—	—	A16097-ND	3.02	2.89	969803-5
Fig. 3 — Panel Mount Right Angle Tubing Connections											
0.51 (13.0)	9	12.0	20.0	10	36.0	34.0	20.0	A16098-ND	2.94	2.82	969817-2
0.62 (15.8)	11	15.5	23.0	10	42.0	37.5	23.0	A16099-ND	3.05	2.94	969817-3
0.83 (21.2)	16	18.0	29.5	12	50.0	47.0	27.0	A16100-ND	3.13	3.02	969817-4
1.12 (28.5)	21	24.0	37.0	12	57.0	55.0	34.0	A16101-ND	5.21	5.01	969817-5

Note: Must order counternuts and seals separately.

Thread	Dimensions (mm) Thickness	Hex Width	Height	Outer Dia.	Inner Dia.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Counternuts									
9	5.0	22	—	—	—	A16106-ND	.22	.20	796260-2
11	5.0	24	—	—	—	A16107-ND	.23	.21	796260-3
16	6.0	30	—	—	—	A16108-ND	.24	.23	796260-5
21	7.0	36	—	—	—	A16109-ND	.38	.36	796260-6
Flat O-Ring Seal									
9	—	—	1.6	19	15	A16110-ND	.39	.37	796257-2
11	—	—	1.8	23	18	A16111-ND	.42	.41	796255-2
16	—	—	1.8	27	21.5	A16112-ND	.45	.43	796255-3
21	—	—	2.2	43	34	A16113-ND	.76	.72	796258-6