

Circular Plastic Connectors (CPC) — Series 1



Standard Sex CPC Connectors



CPC Connectors provide a substantial savings in weight and cost through the use of a plastic shell and a wide variety of pin and socket contacts. The various sizes and densities are supplied unloaded (without contacts). Recognized under the component program of Underwriters Laboratories, Inc. for 250 V service. UL File No. E28476. CSA Certified File No. LR 7189.

Series 1. Standard density, multimate contacts for normal unsealed operations. Materials: 94 V-1 rated, heat stabilized, fire resistant, self extinguishing black thermoplastic. Contacts not included — order as a separate item. Note: Maximum wire insulation dia. is .100 (2.54) except for arrangement 23-24 which will accept insulation dia. of .150 (3.81) max.

Standard Sex Plugs (For Socket Contacts)

Stock No.	Mfr.'s Type	Shell Size	No. of Contacts	With Seal†	EACH		
					1-24	25-99	100-499
512-1100	206060-1	11	4	No	1.86	1.67	1.39
512-8602	211399-1*	13	7	No	2.49	2.24	1.87
512-1105	206708-1	13	9	No	2.04	1.84	1.53
512-8869	211766-1*	17	9	No	3.54	3.18	2.65
512-1110	206037-1	17	16	No	2.13	1.92	1.60
512-8871	211770-2*	23	19	No	4.26	3.84	3.20
512-1120	206837-1	23	24	No	2.74	2.47	2.06
512-1115	206150-1	23	37	No	2.45	2.20	1.84

Standard Sex Square Flange Receptacles (For Pin Contacts)

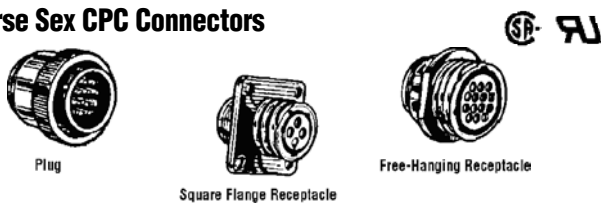
Stock No.	Mfr.'s Type	Shell Size	No. of Contacts	With Seal†	EACH		
					1-24	25-99	100-499
512-1150	206061-1	11	4	No	1.50	1.36	1.14
512-9073	206061-2	11	4	Yes	6.14	5.53	4.61
512-8664	211401-1*	13	7	No	2.77	2.49	2.07
512-1155	206705-1	13	9	No	1.61	1.45	1.21
512-8961	206705-3	13	9	Yes	2.86	2.57	2.14
512-8561	211767-1*	17	9	No	2.74	2.47	2.06
512-1160	206036-1	17	16	No	1.70	1.53	1.28
512-8685	206036-4	17	16	Yes	3.13	2.60	2.40
512-8870	211771-1*	23	19	No	3.49	3.14	2.62
512-1166	206838-1	23	24	No	2.13	1.92	1.60
512-8967	206838-3	23	24	Yes	3.54	3.18	2.65
512-1165	206151-1	23	37	No	1.95	1.75	1.46
512-9078	206151-3	23	37	Yes	7.46	6.71	5.59

Standard Sex Free Hanging Receptacles (For Pin Contacts)

Stock No.	Mfr.'s Type	Shell Size	No. of Contacts	With Seal†	EACH		
					1-24	25-99	100-499
512-1178	206153-1	11	4	No	1.59	1.43	1.19
512-9074	206153-2	11	4	Yes	5.65	4.71	4.35
512-1180	206705-2	13	9	No	1.65	1.49	1.26
512-8963	206705-4	13	9	Yes	2.92	2.63	2.19
512-1182	206036-3	17	16	No	1.75	1.57	1.31
512-8965	206036-5	17	16	Yes	3.01	2.71	2.26
512-1194	206838-2	23	24	No	2.88	2.59	2.16
512-9076	206838-4	23	24	Yes	5.59	5.08	4.56
512-1186	206151-2	23	37	No	2.13	1.92	1.60
512-9079	206151-4	23	37	Yes	5.10	4.21	3.83

*VDE tested. †With pre-installed, bonded peripheral seal.

Reverse Sex CPC Connectors



Reverse Sex Plugs (For Pin Contacts)

Stock No.	Mfr.'s Type	Shell Size	No. of Contacts	With Seal†	EACH		
					1-24	25-99	100-499
512-1170	206429-1	11	4	No	1.88	1.69	1.41
512-8603	211400-1*	13	7	No	2.86	2.57	2.14
512-8873	211768-1*	17	9	No	3.04	2.73	2.28
512-1172	206044-1	17	14	No	2.13	1.92	1.60
512-8875	211772-1*	23	19	No	3.56	3.23	2.67
512-1176	206305-1	23	37	No	2.45	2.20	1.84

Reverse Sex Square Flange Receptacles (For Socket Contacts)

Stock No.	Mfr.'s Type	Shell Size	No. of Contacts	With Seal†	EACH		
					1-24	25-99	100-499
512-1171	206430-1	11	4	No	1.54	1.39	1.16
512-9087	206430-3	11	4	Yes	3.69	3.36	3.08
512-8601	211398-1*	13	7	No	2.47	2.22	1.85
512-8872	211769-1*	17	9	No	2.79	2.51	2.09
512-1173	206043-1	17	14	No	1.70	1.53	1.28
512-9107	206043-4	17	14	Yes	3.75	3.61	3.01
512-8874	211773-1*	23	19	No	2.97	2.67	2.23
512-1175	206306-1	23	37	No	1.95	1.75	1.46

Reverse Sex Free Hanging Receptacles (For Socket Contacts)

Stock No.	Mfr.'s Type	Shell Size	No. of Contacts	With Seal†	EACH		
					1-24	25-99	100-499
512-1188	206430-2	11	4	No	1.54	1.39	1.16
512-1190	206043-3	17	14	No	2.15	1.94	1.61
512-1192	206306-2	23	37	No	2.88	2.59	2.02

*VDE tested. †With pre-installed, bonded peripheral seal.

Multimate Pin and Socket Contacts for CPC, Series 1

Phosphor bronze contact body with stainless steel springs. Wire Strip Length: .156" (3.96 mm). Pin Diameter: .062" (1.57 mm). Pins and sockets available in bulk, contact your local sales office.

Tin-Plated Brass Body, Stainless Steel Spring

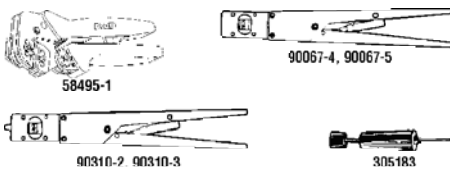
Stock No.	Mfr.'s Type	Style	Wire Size AWG	Wire Insulation Range (In.)	PER PKG./100		
					1-4	5-9	10-24
512-1291	66107-9	Pin	26-24	0.035-0.055	20.32	16.93	15.63
512-1293	1-66109-5	Socket	26-24	0.035-0.055	35.29	29.41	27.15
512-1299	1-66103-5	Pin	24-20	0.040-0.080	19.34	16.12	14.88
512-1295	1-66105-6	Socket	24-20	0.040-0.080	22.91	19.09	17.62
512-1331	66400-6	Pin	24-20	0.080-0.100	19.34	16.12	14.88
512-1332	66399-6	Socket	24-20	0.080-0.100	22.91	19.09	17.62
512-1333	1-66099-2	Pin	18-16	0.080-0.100	19.34	16.12	14.88
512-1334	1-66101-6	Socket	18-16	0.080-0.100	22.91	19.09	17.62
512-1336	66602-6	Pin	18-14	0.110-0.150	19.34	16.12	14.88
512-1337	66601-7	Socket	18-14	0.110-0.150	22.91	19.09	17.62
512-1297	1-66361-0	Pin	18-14	0.080-0.100	19.16	15.96	14.74
512-1325	1-66360-0	Socket	18-14	0.080-0.100	22.52	18.77	17.32
512-1330	202236-4	Pin	Solder Tab	—	40.96	34.14	31.51
512-1335	202237-4	Socket	Solder Tab	—	44.86	37.38	34.51

0.000030" Gold in the Electrical Engagement Area Over 0.000050" Nickel

512-1322	1-66107-0	Pin	26-24	0.035-0.055	29.21	24.34	22.47
512-1323	1-66109-6	Socket	26-24	0.035-0.055	34.90	29.09	26.85
512-1324	1-66103-7	Pin	24-20	0.040-0.080	29.23	24.36	22.49
512-1325	1-66105-8	Socket	24-20	0.040-0.080	34.92	29.10	26.87
512-1351	66400-9	Pin	24-20	0.080-0.100	29.25	24.38	22.50
512-1352	66399-9	Socket	24-20	0.080-0.100	34.92	29.10	26.87
512-1348	1-66099-4	Pin	18-16	0.080-0.100	29.25	24.38	22.50
512-1349	1-66101-8	Socket	18-16	0.080-0.100	34.97	29.14	26.90
512-1327	66602-7	Pin	18-14	0.110-0.150	29.31	24.43	22.55
512-1328	66601-8	Socket	18-14	0.110-0.150	32.91	27.42	25.31
512-1338	1-66361-1	Pin	18-14	0.080-0.100	29.52	24.60	22.71
512-1329	1-66360-1	Socket	18-14	0.080-0.100	43.70	36.41	33.61
512-1353	66182-2	Pin	26-20	Solder Type	46.63	38.86	35.87
512-5254	66183-2	Socket	26-20	Solder Type	58.67	48.89	45.13
512-1356	66180-3	Pin	18-16	Solder Type	46.63	38.86	35.87
512-1357	66181-3	Socket	18-16	Solder Type	71.71	65.19	59.76
512-8973	202236-3	Pin	Solder tab	—	41.43*	34.53*	31.87*
512-8977	202237-3	Socket	Solder tab	—	92.27	76.89	70.98

*Pack of 50.

Tools For CPC Connectors with Multimate Contacts



Crimping Tools

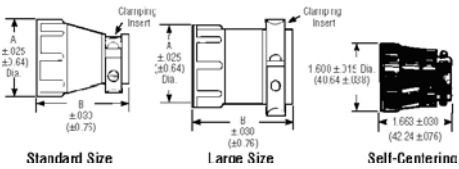
512-9134. 58495-1. PRO-CRIMPER™II for 28-16 AWG	EACH	161.63
512-9137. 90066-7. CERTI-CRIMP™ for 30-20 AWG.....	EACH	379.44
512-9136. 90067-4. CERTI-CRIMP™ for 24-16 AWG. 0.040-0.080 Insulation Dia.....	EACH	448.76
512-9139. 90067-5. CERTI-CRIMP™ for 24-16 AWG. 0.080-0.100 Insulation Dia.....	EACH	418.84
512-9138. 90310-2. CERTI-CRIMP™ for 18-14 AWG. 0.110-0.150 Insulation Dia.....	EACH	461.72
512-9141. 90310-3. CERTI-CRIMP™ for 18-14 AWG. 0.080-0.100 Insulation Dia.....	EACH	461.72

Insertion/Extraction Tools

512-0031. 91002-1. Tweezer Style Insertion Tool.....	EACH	15.28
512-9140. 305183. Extraction Tool.....	EACH	17.14

Cable Clamps

94 V-1 rated, black thermoplastic. Used to prevent transmitting excessive strain on cable or wire to contacts. Can be threaded directly onto plugs or receptacles.



Stock No.	Mfr.'s Type	Shell Size	Dim. A		Dim. B		Cable O.D. Shell		EACH		
			In.	mm	In.	mm	In.	mm	1-24	25-99	100-499
512-1250†	206062-1*	11	0.825	20.96	1.250	31.75	0.329	8.33	2.74	2.47	2.06
512-8609†	206062-3*	11	0.825	20.96	1.250	31.75	0.329	8.33	2.74	2.47	2.06
512-1255†	206966-1	13	0.950	24.13	1.400	35.56	0.453	11.51	2.77	2.49	2.07
512-1260†	206070-1	17	1.125	28.58	1.400	36.56	0.453	11.51	2.77	2.49	2.07
512-1265†	206138-1	23	1.600	40.64	1.555	39.50	0.703	17.86	2.86	2.57	2.14
512-1270†	206358-1	11	0.850	21.59	1.450	36.50	0.453	11.51	2.74	2.47	2.06
512-1275†	207008-1	13	0.950	24.13	1.400	35.56	0.703	17.86	2.90	2.61	2.18
512-1280†	206322-1	17	1.131	28.73	1.655	42.04	0.703	17.86	3.08	2.77	2.31
512-1285†	206512-1	23	1.600	40.64	1.655	42.04	1.125	28.58	3.63	3.26	2.72

Self Centering Type

512-1286	207774-1	23	1.600	40.64	1.663	42.24	1.125	28.58	4.22	3.79	3.16
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*Screw Length: -1 is .375"; -3 is .500". Size: †Standard, ‡Large.

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