

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)

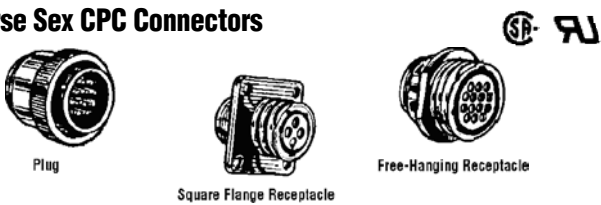
| Stock No. | Mfr.'s Type | Shell Size | No. of Contacts | With Seal† | EACH |       |         |
|-----------|-------------|------------|-----------------|------------|------|-------|---------|
|           |             |            |                 |            | 1-24 | 25-99 | 100-499 |
| 512-1150  | 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

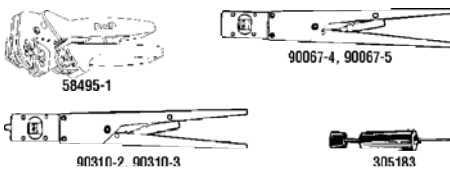
| Stock No. | Mfr.'s Type | Style  | Wire Size AWG | Wire Insulation Range (In.) | PER PKG./100 |       |       |
|-----------|-------------|--------|---------------|-----------------------------|--------------|-------|-------|
|           |             |        |               |                             | 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



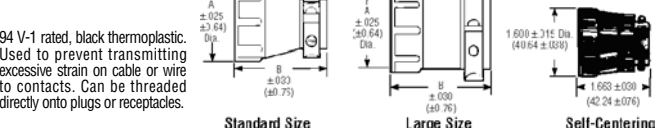
Crimping Tools

|           |          |                                                             |      |        |
|-----------|----------|-------------------------------------------------------------|------|--------|
| 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



| 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 |
|----------|----------|----|-------|-------|-------|-------|-------|-------|------|------|------|

\*Screw Length: -1 is .375"; -3 is .500". Size: †Standard, ‡Large.

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