



**HWE**



# 2020

**PRODUCT CATALOG**

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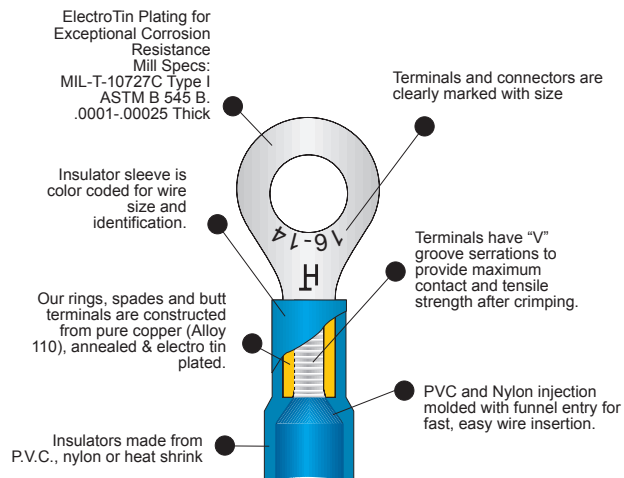
## About Hillsdale Terminal

HILLSDALE TERMINAL is proud of our 40 years of continuous service to the industry. The now 3rd generation Company was started back in 1976 by the founder, Harry F. Condon. We are confident that you will find our quality, service, and delivery to be the very best.

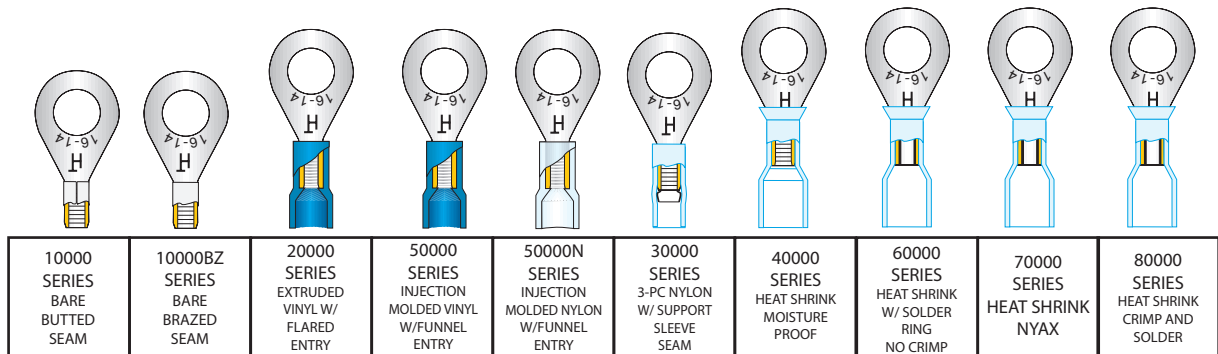
There are three locations in Michigan. The 35,000 Sq. Ft. manufacturing plant is where all the stamping and production is being done. Just down the road, a short distance is the 24,000 Sq. Ft. Hillsdale plant. This building houses our sales and administrative offices as well as our shipping and packaging departments. Just around the corner, is our new 12,500 Sq. Ft. molding facility. This building houses all the injection molding and extruder processing. It also offers additional storage for material and stock.

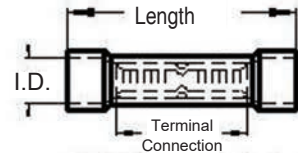
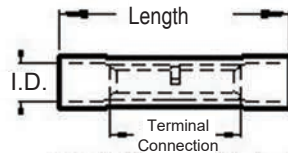
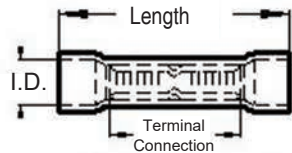
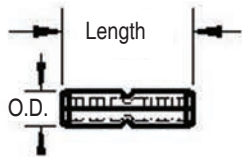
Please contact a Hillsdale representative to discuss your needs or for additional information about our products and services.

## Terminal Terminology



## Recognizing Terminal Types





L = Length  
M = Material Thickness

Vinyl Insulated Butted Seam Butt Connector Shown

Extruded Nylon Insulated Seamless or Butted Seam Butt Connector

Molded Nylon Insulated Seamless or Butted Seam Butt Connector

## Bare Butted Seam

| Wire Size | Part Number | L    | O.D.      | M    |
|-----------|-------------|------|-----------|------|
| 22-18     | 10080*      | .560 | .133/.135 | .028 |
|           | 10080E      | .560 | .112/.115 | .020 |

|       |        |      |           |      |
|-------|--------|------|-----------|------|
| 16-14 | 10170* | .560 | .152/.156 | .030 |
|       | 10170E | .560 | .134/.135 | .020 |

|       |        |      |           |      |
|-------|--------|------|-----------|------|
| 12-10 | 10310* | .625 | .212/.215 | .035 |
|       | 10310E | .625 | .208/.210 | .030 |

## Bare Seamless

|       |       |      |      |      |
|-------|-------|------|------|------|
| 26-24 | 12403 | .475 | .084 | .018 |
|-------|-------|------|------|------|

|       |        |      |           |      |
|-------|--------|------|-----------|------|
| 22-18 | 10083  | .565 | .133/.135 | .030 |
|       | 10083L | .625 | .133/.135 | .030 |

|       |         |      |           |      |
|-------|---------|------|-----------|------|
| 16-14 | 10173   | .565 | .152/.156 | .030 |
|       | 10173L  | .630 | .152/.156 | .030 |
|       | 10173XL | .665 | .152/.156 | .030 |

|       |        |      |           |      |
|-------|--------|------|-----------|------|
| 12-10 | 10313  | .625 | .212/.215 | .035 |
|       | 10313L | .810 | .212/.215 | .035 |

|   |       |      |           |      |
|---|-------|------|-----------|------|
| 8 | 10624 | .827 | .273/.275 | .049 |
|---|-------|------|-----------|------|

|   |       |       |           |      |
|---|-------|-------|-----------|------|
| 6 | 10625 | 1.030 | .350/.352 | .058 |
|---|-------|-------|-----------|------|

|   |       |       |           |      |
|---|-------|-------|-----------|------|
| 4 | 10626 | 1.140 | .438/.440 | .070 |
|---|-------|-------|-----------|------|

|   |       |       |           |      |
|---|-------|-------|-----------|------|
| 2 | 10627 | 1.250 | .512/.514 | .072 |
|---|-------|-------|-----------|------|

|                  |       |                          |  |  |
|------------------|-------|--------------------------|--|--|
| <b>NEW</b> 22-18 | 11082 | U/I Seamless Window Butt |  |  |
|------------------|-------|--------------------------|--|--|

|                  |       |                          |  |  |
|------------------|-------|--------------------------|--|--|
| <b>NEW</b> 16-14 | 11172 | U/I Seamless Window Butt |  |  |
|------------------|-------|--------------------------|--|--|

|                  |       |                          |  |  |
|------------------|-------|--------------------------|--|--|
| <b>NEW</b> 12-10 | 11312 | U/I Seamless Window Butt |  |  |
|------------------|-------|--------------------------|--|--|

## Vinyl Insulated

| Wire Size | Part Number | L    | Terminal | I.D. |
|-----------|-------------|------|----------|------|
| 22-18     | 20080*      | .970 | 10080    | .160 |
|           | 20080E      | .970 | 10080E   | .160 |

|       |        |      |        |      |
|-------|--------|------|--------|------|
| 16-14 | 20170* | .970 | 10170  | .180 |
|       | 20170E | .970 | 10170E | .180 |

|       |        |       |        |      |
|-------|--------|-------|--------|------|
| 12-10 | 20310* | 1.060 | 10310  | .235 |
|       | 20310E | 1.060 | 10310E | .235 |

## Vinyl - Seamless

|       |         |      |       |      |
|-------|---------|------|-------|------|
| 22-18 | 20080SV | .970 | 10083 | .160 |
|-------|---------|------|-------|------|

|       |         |      |       |      |
|-------|---------|------|-------|------|
| 16-14 | 20170SV | .970 | 10173 | .185 |
|-------|---------|------|-------|------|

|       |         |       |       |      |
|-------|---------|-------|-------|------|
| 12-10 | 20310SV | 1.060 | 10313 | .235 |
|-------|---------|-------|-------|------|

|   |       |       |       |      |
|---|-------|-------|-------|------|
| 8 | 20624 | 1.460 | 10624 | .320 |
|---|-------|-------|-------|------|

|   |       |       |       |      |
|---|-------|-------|-------|------|
| 6 | 20625 | 1.740 | 10625 | .395 |
|---|-------|-------|-------|------|

|   |       |       |       |      |
|---|-------|-------|-------|------|
| 4 | 20626 | 1.930 | 10626 | .500 |
|---|-------|-------|-------|------|

|   |       |       |       |      |
|---|-------|-------|-------|------|
| 2 | 20627 | 2.250 | 10627 | .560 |
|---|-------|-------|-------|------|

## Nylon Straight Butted Seam

| Wire Size | Part Number     | L              | Terminal        | I.D.         |
|-----------|-----------------|----------------|-----------------|--------------|
| 22-18     | 20081<br>20081E | .990<br>.990   | 10080<br>10080E | .135<br>.135 |
| 16-14     | 20171<br>20171E | .990<br>.990   | 10170<br>10170E | .155<br>.155 |
| 12-10     | 20311<br>20311E | 1.070<br>1.070 | 10310<br>10310E | .205<br>.205 |

## Nylon Flared Butted Seam

|       |                 |                |                 |              |
|-------|-----------------|----------------|-----------------|--------------|
| 22-18 | 50081<br>50081E | .985<br>.985   | 10080<br>10080E | .165<br>.165 |
| 16-14 | 50171<br>50171E | .985<br>.985   | 10170<br>10170E | .195<br>.195 |
| 12-10 | 50311<br>50311E | 1.070<br>1.070 | 10310<br>10310E | .270<br>.270 |

## Nylon Flared Seamless

|       |       |       |       |      |
|-------|-------|-------|-------|------|
| 22-18 | 20083 | .985  | 10083 | .165 |
| 16-14 | 20173 | .985  | 10173 | .195 |
| 12-10 | 20313 | 1.070 | 10313 | .270 |

## Nylon Straight Seamless

| Wire Size | Part Number                   | L                    | Terminal                   | I.D.                 |
|-----------|-------------------------------|----------------------|----------------------------|----------------------|
| 26-24     | 22403                         | .757                 | 12403                      | .080                 |
| 22-18     | 20083S<br>20083LN             | .990<br>1.06         | 10083<br>10083L            | .135<br>.135         |
| 16-14     | 20173S<br>20173LN<br>20173XLN | .990<br>1.06<br>1.06 | 10173<br>10173L<br>10173XL | .155<br>.155<br>.155 |
| 12-10     | 20313S<br>20313LN             | 1.070<br>1.25        | 10313<br>10313L            | .205<br>.205         |

|   |        |       |       |      |
|---|--------|-------|-------|------|
| 8 | 20624N | 1.500 | 10624 | .260 |
| 6 | 20625N | 1.780 | 10625 | .340 |
| 4 | 20626N | 1.980 | 10626 | .430 |

## 4 Pc Nylon w/ Sleeve

|       |       |      |       |      |
|-------|-------|------|-------|------|
| 22-18 | 30080 | 1.00 | 10080 | .135 |
| 16-14 | 30170 | 1.00 | 10170 | .155 |
| 12-10 | 30310 | 1.20 | 10310 | .205 |

## Cool Seal Nylon Butts

|       |       |      |  |  |
|-------|-------|------|--|--|
| 22-18 | 29083 | 1.00 |  |  |
| 16-14 | 29173 | 1.00 |  |  |
| 12-10 | 29313 | 1.20 |  |  |

**NEW**

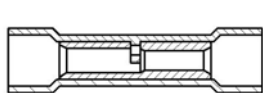
Seals Out Moisture Causing Corrosion. A Heat-Less/Solderless Connection.

## Step Down Butts

### Bare Seamless Step Down Butts

| Wire Size      | Part Number | Insulation Color & Stripe   |
|----------------|-------------|---|
| 26-24 to 22-18 | 10315       | w/26-24 white & 22-18 red stripe  |
| 16-14 to 22-18 | 10316       | w/22-18 red & 16-14 blue stripe   |
| 12-10 to 16-14 | 10317       | w/16-14 blue & 12-10 yellow stripe  |
| 8 to 12-10     | 10318       | w/12-10 yellow & red 8 ga stripe  |
| 6 to 8         | 10319       | w/ 6 ga blue & 8 ga red stripe  |
| 12-10 to 22-18 | 10320       | w/ 12-10 yellow & 22-18 red stripe  |
| 8 to 16-14     | 10321       | w/ 8 ga red & 16-14 blue stripe   |
| 26-24 to 22-18 | 11315       | U/I S/D Window       |
| 16-14 to 22-18 | 11316       | U/I S/D Window Butt  |
| 12-10 to 16-14 | 11317       | U/I S/D Window       |

### Vinyl Step Down



|                |       |   |
|----------------|-------|---|
| 22-18 to 26-24 | 20315 | red w/22-18 & 26-24 white stripe          |
| 16-14 to 22-18 | 20316 | blue w/22-18 red & 16-14 blue stripe      |
| 12-10 to 16-14 | 20317 | yellow w/16-14 blue & 12-10 yellow stripe |
| 8 to 12-10     | 20318 | red w/12-10 yellow & red 8 ga stripe      |
| 6 to 8         | 20319 | blue w/ red stripe                        |
| 12-10 to 22-18 | 20320 | yellow w/ red 12-10 / 22-18 ga            |
| 8 to 16-14     | 20321 | red w/ blue 8 ga / 16-14 ga               |

### Heat Shrink Step Down

|                |       |   |
|----------------|-------|---|
| 22-18 to 26-24 | 40315 | red w/ 26-24 & 22-18 white stripe         |
| 16-14 to 22-18 | 40316 | blue w/22-18 red & 16-14 blue stripe      |
| 12-10 to 16-14 | 40317 | yellow w/16-14 blue & 12-10 yellow stripe |
| 8 to 12-10     | 40318 | red w/ 12-10 yellow & red 8 ga stripe     |

### Heat Shrink Step Down - NYAX

**NEW**

|                |       |   |
|----------------|-------|---|
| 16-14 to 22-18 | 70316 | blue w/22-18 red & 16-14 blue stripe      |
| 12-10 to 16-14 | 70317 | yellow w/16-14 blue & 12-10 yellow stripe |
| 8 to 12-10     | 70318 | red w/12-10 yellow & 8 red stripe         |

### Vinyl - Oval Butt

| Wire Size | Part Number | L    | Terminal | I.D. |
|-----------|-------------|------|----------|------|
| 16-14     | 20174       | .960 | 10170    | .180 |



### Nylon - Moisture Resistant

|       |        |      |   |      |
|-------|--------|------|---|------|
| 22-18 | 30080G | 1.04 | - | .145 |
| 16-14 | 30170G | 1.04 | - | .170 |
| 12-10 | 30310G | 1.25 | - | .250 |



### Heat Shrink Over Nylon

|       |       |       |        |      |
|-------|-------|-------|--------|------|
| 22-18 | 42083 | 1.800 | 20083S | .180 |
| 16-14 | 42173 | 1.800 | 20173S | .250 |
| 12-10 | 42313 | 2.000 | 20313S | .325 |



### Heat Shrink - Polyolefin

|       |                 |                |   |              |
|-------|-----------------|----------------|---|--------------|
| 26-22 | 40024           | 1.00           |   | .125         |
| 22-18 | 20082<br>20082L | 1.500<br>1.500 | 10083<br>10083L                           | .165<br>.165 |
| 16-14 | 20172<br>20172L | 1.500<br>1.500 | 10173<br>10173L                           | .196<br>.196 |
| 12-10 | 20312           | 1.700          | 10313L                                    | .250         |
| 8     | 40624           | 1.800          | 10624                                     | .312         |
| 6     | 40625           |                | * Sold Unassembled<br>(Part# 10625 & 284) |              |



### Heat Shrink - NYAX

|       |                 |                |                 |              |
|-------|-----------------|----------------|-----------------|--------------|
| 22-18 | 40082<br>40082L | 1.250<br>1.500 | 10083<br>10083L | .200<br>.200 |
| 16-14 | 40172<br>40172L | 1.250<br>1.500 | 10173<br>10173L | .250<br>.250 |
| 12-10 | 40312<br>40312L | 1.500<br>1.750 | 10313<br>10313L | .280<br>.280 |



# Ring Tongue

## Bare Butted Seam

| Wire Size | Stud Size        | Part Number |
|-----------|------------------|-------------|
| 4         |                  | 10014       |
| 6         |                  | 10020*      |
| 6         | .187 Barrel      | 10020E      |
| 6         | Slim             | 10021       |
| 6         | Slim .187 Barrel | 10021E      |
| 8         |                  | 10030*      |
| 8         | Slim             | 10038       |
| 8         | Slim .187 Barrel | 10038E      |
| 10        |                  | 10040*      |
| 10        | .187 Barrel      | 10040E      |
| 1/4       |                  | 10041*      |
| 1/4       | Slim             | 10044+      |
| 1/4       | Slim .187 Barrel | 10044E      |
| 5/16      |                  | 10042*      |
| 5/16      | .187 Barrel      | 10042E      |
| 3/8       |                  | 10043+      |

22-18



16-14



12-10



**NEW**

## Long Neck Bare Brazed

|       |    |           |
|-------|----|-----------|
| 22-18 | 8  | 10030LBZ# |
|       | 10 | 10040LBZ# |
| 16-14 | 8  | 10090LBZ# |
|       | 10 | 10100LBZ# |
| 12-10 | 10 | 10230LBZ# |



## Bare Brazed Seam

|       |    |       |
|-------|----|-------|
| 24-20 | 4  | 12404 |
|       | 6  | 12406 |
|       | 8  | 12408 |
|       | 10 | 12410 |



**MORE SIZES ADDED**

## Bare Brazed Seam (cont.)

| Wire Size | Stud Size        | Part Number |
|-----------|------------------|-------------|
| 4         |                  | 10014BZ     |
| 6         |                  | 10020BZ*    |
| 6         | Slim             | 10021BZ     |
| 8         |                  | 10030BZ*    |
| 8         | Slim             | 10038BZ     |
| 10        |                  | 10040BZ*    |
| 10        | .187 Barrel      | 10040EBZ    |
| 1/4       |                  | 10041BZ*    |
| 1/4       | Slim             | 10044BZ+    |
| 1/4       | Slim .187 Barrel | 10044EBZ    |
| 5/16      |                  | 10042BZ*    |
| 3/8       |                  | 10043BZ+    |

22-18



16-14



12-10



8



6



4



2



1/0



\* UL & CSA Listed Part  
# UL & CUL Listed Part  
+ UL Listed Only

|      |                  |           |
|------|------------------|-----------|
| 4    |                  | 10084BZ   |
| 6    |                  | 10086BZ*  |
| 6    | .187 Barrel      | 10086 EBZ |
| 6    | Slim             | 10085BZ   |
| 8    |                  | 10090BZ*  |
| 8    | Slim             | 10098BZ   |
| 8    | Slim .187 Barrel | 10098EBZ  |
| 10   |                  | 10100BZ*  |
| 10   | .187 Barrel      | 10100EBZ  |
| 1/4  |                  | 10101BZ*  |
| 1/4  | Slim             | 10114BZ+  |
| 1/4  | Slim .187 Barrel | 10114EBZ  |
| 5/16 |                  | 10102BZ*  |
| 3/8  |                  | 10103BZ*  |
| 1/2  |                  | 10104BZ+  |

|      |      |          |
|------|------|----------|
| 6    |      | 10210BZ* |
| 6    | Slim | 10215BZ  |
| 8    |      | 10220BZ* |
| 8    | Slim | 10225BZ  |
| 10   |      | 10230BZ* |
| 1/4  |      | 10240BZ* |
| 1/4  | Slim | 10245BZ* |
| 5/16 |      | 10250BZ* |
| 3/8  |      | 10260BZ* |
| 1/2  |      | 10233BZ* |

|      |      |        |
|------|------|--------|
| 8    |      | 10608# |
| 10   | Slim | 10609# |
| 10   |      | 10610# |
| 1/4  |      | 10611# |
| 5/16 |      | 10612# |
| 3/8  |      | 10613# |
| 1/2  |      | 10614# |

|      |           |         |
|------|-----------|---------|
| 10   |           | 10615#  |
| 10   | Slim      | 10615E# |
| 1/4  |           | 10616#  |
| 1/4  | Slim      | 10616E# |
| 5/16 |           | 10617#  |
| 5/16 | Slim .345 | 10617E  |
| 3/8  |           | 10618#  |
| 1/2  |           | 10619   |

|      |      |        |
|------|------|--------|
| 10   | Slim | 10898  |
| 1/4  |      | 10620# |
| 1/4  | Slim | 10899  |
| 5/16 |      | 10621# |
| 3/8  |      | 10622# |
| 1/2  |      | 10623# |

|      |  |       |
|------|--|-------|
| 1/4  |  | 10628 |
| 5/16 |  | 10629 |
| 3/8  |  | 10630 |
| 1/2  |  | 10631 |

|     |              |        |
|-----|--------------|--------|
| 1/0 | 1/4 Ring     | 10634# |
|     | 1/0 3/8 Ring | 10632# |
|     | 1/0 1/2 Ring | 10633# |

# Ring Tongue

\* UL & CSA Listed Part

## Vinyl Insulated

Wire Size      Stud Size      Part Number

**24-20**  
4      22404  
6      22406  
8      22408  
10      22410



**22-18**  
4      50014  
6      50020\*  
6 .187 Barrel      50020E  
6 Slim      50021  
6 Slim .187 Barrel      50021E  
8      50030\*  
8 Slim      50038  
8 Slim .187 Barrel      50038E  
10      50040\*  
10 .187 Barrel      50040E  
1/4      50041\*  
1/4 Slim      50044\*  
1/4 Slim .187 Barrel      50044E  
5/16      50042\*  
5/16 .187 Barrel      50042E  
3/8      50043\*



**16-14**  
4      50084  
6 Slim      50085  
6      50086\*  
6 .187 Barrel      50086E  
8      50090\*  
8 Slim      50098  
8 Slim .187 Barrel      50098E  
10      50100\*  
10 .187 Barrel      50100E  
1/4      50101\*  
1/4 Slim      50114\*  
1/4 Slim .187 Barrel      50114E  
5/16      50102\*  
5/16 .187 Barrel      50102E  
5/16 Wide .558      50106  
3/8      50103\*  
1/2      50104\*



**12-10**  
6      50210\*  
6 Slim      50215  
8      50220\*  
8 Slim      50225  
10      50230\*  
1/4      50240\*  
1/4 Slim      50245\*  
5/16      50250\*  
3/8      50260\*  
1/2      50233\*  
1/2 Wide      50235



**8**  
8      50608  
10 Slim      50609  
10      50610  
1/4      50611  
5/16      50612  
3/8      50613  
1/2      50614



**6**  
10      50615  
10 Slim      50615E  
1/4      50616  
1/4 Slim      50616E  
5/16      50617  
5/16 Slim .345      50617E  
3/8      50618  
1/2      50619



## Nylon Insulated

Wire Size      Stud Size      Part Number

**22-18**  
4      50014N  
6      50020N\*  
6 .187 Barrel      50020EN  
6 Slim      50021N  
6 Slim .187 Barrel      50021EN  
8      50030N\*  
8 Slim      50038N  
8 Slim .187 Barrel      50038EN  
10      50040N\*  
10 .187 Barrel      50040EN  
1/4      50041N\*  
1/4 Slim      50044N\*  
1/4 Slim .187 Barrel      50044EN  
5/16      50042N\*  
5/16 .187 Barrel      50042EN  
3/8      50043N\*



**16-14**  
4      50084N  
6 Slim      50085N  
6      50086N\*  
6 .187 Barrel      50086EN  
8      50090N\*  
8 Slim      50098N  
8 Slim .187 Barrel      50098EN  
10      50100N\*  
10 .187 Barrel      50100EN  
1/4      50101N\*  
1/4 Slim      50114N\*  
1/4 Slim .187 Barrel      50114EN  
5/16      50102N\*  
5/16 .187 Barrel      50102EN  
5/16 Wide .558      50106N  
3/8      50103N\*  
1/2      50104N



**12-10**  
6      50210N\*  
6 Slim      50215N  
8      50220N\*  
8 Slim      50225N  
10      50230N\*  
1/4      50240N\*  
1/4 Slim      50245N\*  
5/16      50250N\*  
3/8      50260N\*  
1/2      50233N\*



**8**  
8      50608N  
10 Slim      50609N  
10      50610N  
1/4      50611N  
5/16      50612N  
3/8      50613N  
1/2      50614N



**6**  
10      50615N  
10 Slim      50615EN  
1/4      50616N  
1/4 Slim      50616EN  
5/16      50617N  
5/16 Slim .345      50617EN  
3/8      50618N  
1/2      50619N



**4**  
10 Slim      50898N  
1/4      50620N  
1/4 Slim      50899N  
5/16      50621N  
3/8      50622N  
1/2      50623N



**2**  
1/4      50628N  
5/16      50629N  
3/8      50630N  
1/2      50631N

**MORE SIZES ADDED**

**NEW**

**NEW**

Ring Tongues

# Ring Tongue

## 3-Pc Nylon w/ Sleeve

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 24-20     | 4         | 32404       |
|           | 6         | 32406       |
|           | 8         | 32408       |
|           | 10        | 32410       |



|       |          |       |
|-------|----------|-------|
| 22-18 | 4        | 30014 |
|       | 6        | 30020 |
|       | 6 Slim   | 30021 |
|       | 8        | 30030 |
|       | 8 Slim   | 30038 |
|       | 10       | 30040 |
|       | 1/4      | 30041 |
|       | 1/4 Slim | 30044 |
|       | 5/16     | 30042 |
|       | 3/8      | 30043 |



|       |          |       |
|-------|----------|-------|
| 16-14 | 4        | 30084 |
|       | 6        | 30086 |
|       | 6 Slim   | 30085 |
|       | 8        | 30090 |
|       | 8 Slim   | 30098 |
|       | 10       | 30100 |
|       | 1/4      | 30101 |
|       | 1/4 Slim | 30114 |
|       | 5/16     | 30102 |
|       | 3/8      | 30103 |
| 1/2   | 30104    |       |



|       |          |       |
|-------|----------|-------|
| 12-10 | 6        | 30210 |
|       | 6 Slim   | 30215 |
|       | 8        | 30220 |
|       | 8 Slim   | 30225 |
|       | 10       | 30230 |
|       | 1/4      | 30240 |
|       | 1/4 Slim | 30245 |
|       | 5/16     | 30250 |
|       | 3/8      | 30260 |
|       | 1/2      | 30233 |



## Heat Shrink

| Wire Size | Stud Size    | Part Number |
|-----------|--------------|-------------|
| 22-18     | 4            | 40014       |
|           | 6            | 40020       |
|           | 6 Slim       | 40021       |
|           | 8            | 40030       |
|           | 8 Long Neck  | 40030L      |
|           | 8 Slim       | 40038       |
|           | 10           | 40040       |
|           | 10 Long Neck | 40040L      |
|           | 1/4          | 40041       |
|           | 1/4 Slim     | 40044       |
| 5/16      | 40042        |             |
| 3/8       | 40043        |             |

|       |              |        |
|-------|--------------|--------|
| 16-14 | 4            | 40084  |
|       | 6            | 40086  |
|       | 6 Slim       | 40085  |
|       | 8            | 40090  |
|       | 8 Long Neck  | 40090L |
|       | 8 Slim       | 40098  |
|       | 10           | 40100  |
|       | 10 Long Neck | 40100L |
|       | 1/4          | 40101  |
|       | 1/4 Slim     | 40114  |
| 5/16  | 40102        |        |
| 3/8   | 40103        |        |
| 1/2   | 40104        |        |

|       |              |        |
|-------|--------------|--------|
| 12-10 | 6            | 40210  |
|       | 6 Slim       | 40215  |
|       | 8            | 40220  |
|       | 8 Slim       | 40225  |
|       | 10           | 40230  |
|       | 10 Long Neck | 40230L |
|       | 1/4          | 40240  |
|       | 1/4 Slim     | 40245  |
|       | 5/16         | 40250  |
|       | 3/8          | 40260  |
| 1/2   | 40233        |        |

|   |         |       |
|---|---------|-------|
| 8 | 8       | 40608 |
|   | 10 Slim | 40609 |
|   | 10      | 40610 |
|   | 1/4     | 40611 |
|   | 5/16    | 40612 |
|   | 3/8     | 40613 |
|   | 1/2     | 40614 |

NEW

NEW

New Long Necks!

NEW

NEW

NEW

# Closed End Connectors

## Copper Insert

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 20569       |
| 16-14     | 20570       |
| 12-10     | 20571       |
| 8         | 20572       |

## Aluminum Insert

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 20569A      |
| 16-14     | 20570A      |
| 12-10     | 20571A      |
| 8         | 20572A      |



See Page 37 for corresponding Tool (20709)

Ring Tongues



## Bare Butted Seam

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
|-----------|-----------|-------------|

|       |        |         |
|-------|--------|---------|
| 22-18 | 6-8-10 | 10040M* |
|-------|--------|---------|

|       |        |         |
|-------|--------|---------|
| 16-14 | 6-8-10 | 10100M* |
|-------|--------|---------|

|       |        |         |
|-------|--------|---------|
| 12-10 | 6-8-10 | 10230M* |
|-------|--------|---------|



## Nylon Insulated

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
|-----------|-----------|-------------|

|       |        |          |
|-------|--------|----------|
| 22-18 | 6-8-10 | 50040MN* |
|-------|--------|----------|

|       |        |          |
|-------|--------|----------|
| 16-14 | 6-8-10 | 50100MN* |
|-------|--------|----------|

|       |        |          |
|-------|--------|----------|
| 12-10 | 6-8-10 | 50230MN* |
|-------|--------|----------|



## Bare Brazed Seam

|       |        |           |
|-------|--------|-----------|
| 22-18 | 6-8-10 | 10040MBZ* |
|-------|--------|-----------|

|       |        |           |
|-------|--------|-----------|
| 16-14 | 6-8-10 | 10100MBZ* |
|-------|--------|-----------|

|       |        |           |
|-------|--------|-----------|
| 12-10 | 6-8-10 | 10230MBZ* |
|-------|--------|-----------|



## 3-Pc Nylon w/ Sleeve

|       |        |        |
|-------|--------|--------|
| 22-18 | 6-8-10 | 30040M |
|-------|--------|--------|

|       |        |        |
|-------|--------|--------|
| 16-14 | 6-8-10 | 30100M |
|-------|--------|--------|

|       |        |        |
|-------|--------|--------|
| 12-10 | 6-8-10 | 30230M |
|-------|--------|--------|



## Vinyl Insulated

|       |        |         |
|-------|--------|---------|
| 22-18 | 6-8-10 | 50040M* |
|-------|--------|---------|

|       |        |         |
|-------|--------|---------|
| 16-14 | 6-8-10 | 50100M* |
|-------|--------|---------|

|       |        |         |
|-------|--------|---------|
| 12-10 | 6-8-10 | 50230M* |
|-------|--------|---------|



## Heat Shrink

|       |        |        |
|-------|--------|--------|
| 22-18 | 6-8-10 | 40040M |
|-------|--------|--------|

|       |        |        |
|-------|--------|--------|
| 16-14 | 6-8-10 | 40100M |
|-------|--------|--------|

|       |        |        |
|-------|--------|--------|
| 12-10 | 6-8-10 | 40230M |
|-------|--------|--------|



# Star Rings

Blades can pierce surfaces to ensure a good connection

**NEW**

## Vinyl Insulated

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
|-----------|-----------|-------------|

|       |        |                |
|-------|--------|----------------|
| 22-18 | 6<br>8 | 50301<br>50302 |
|-------|--------|----------------|

|       |         |                |
|-------|---------|----------------|
| 16-14 | 8<br>10 | 50305<br>50306 |
|-------|---------|----------------|



## WIRE SIZE CROSS REFERENCE

| Metric mm <sup>2</sup> | AWG   |
|------------------------|-------|
| 0.5                    | 26-22 |
| 1.25                   | 22-16 |
| 2.0                    | 16-14 |
| 5.5                    | 12-10 |
| 8.0                    | 8     |
| 14.0                   | 6     |
| 22.0                   | 4     |
| 35.0                   | 2     |
| 60.0                   | 1/0   |
| 70.0                   | 2/0   |
| 80.0                   | 3/0   |
| 100.0                  | 4/0   |

## Bare Butted Seam

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 4         | 10054       |
|           | 6         | 10050*      |
|           | 6 Short   | 10055       |
|           | 8         | 10060*      |
|           | 10        | 10070*      |
|           | 1/4       | 10075       |



|       |        |        |
|-------|--------|--------|
| 16-14 | 6      | 10140* |
|       | 6 Wide | 10147  |
|       | 8      | 10150* |
|       | 10     | 10160* |
|       | 1/4    | 10165* |



|       |     |        |
|-------|-----|--------|
| 12-10 | 6   | 10270* |
|       | 8   | 10280* |
|       | 10  | 10290* |
|       | 1/4 | 10234* |



## Bare Brazed Seam

|       |    |       |
|-------|----|-------|
| 24-20 | 4  | 12414 |
|       | 6  | 12416 |
|       | 8  | 12418 |
|       | 10 | 12420 |



|       |         |          |
|-------|---------|----------|
| 22-18 | 4       | 10054BZ  |
|       | 6       | 10050BZ* |
|       | 6 Short | 10055BZ  |
|       | 8       | 10060BZ* |
|       | 10      | 10070BZ* |
|       | 1/4     | 10075BZ  |



|       |     |          |
|-------|-----|----------|
| 16-14 | 6   | 10140BZ* |
|       | 8   | 10150BZ* |
|       | 10  | 10160BZ* |
|       | 1/4 | 10165BZ* |



|       |     |          |
|-------|-----|----------|
| 12-10 | 6   | 10270BZ* |
|       | 8   | 10280BZ* |
|       | 10  | 10290BZ* |
|       | 1/4 | 10234BZ* |



|   |     |       |
|---|-----|-------|
| 8 | 10  | 10607 |
|   | 1/4 | 10606 |



|   |     |       |
|---|-----|-------|
| 6 | 1/4 | 10726 |
|---|-----|-------|



## Vinyl Insulated

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 24-20     | 4         | 22414       |
|           | 6         | 22416       |
|           | 8         | 22418       |
|           | 10        | 22420       |



|       |         |        |
|-------|---------|--------|
| 22-18 | 4       | 50054  |
|       | 6       | 50050* |
|       | 6 Short | 50055  |
|       | 8       | 50060* |
|       | 10      | 50070* |
|       | 1/4     | 50075  |



|       |        |        |
|-------|--------|--------|
| 16-14 | 6      | 50140* |
|       | 6 Wide | 50147  |
|       | 8      | 50150* |
|       | 10     | 50160* |
|       | 1/4    | 50165* |



|       |     |        |
|-------|-----|--------|
| 12-10 | 6   | 50270* |
|       | 8   | 50280* |
|       | 10  | 50290* |
|       | 1/4 | 50234* |



|   |     |       |
|---|-----|-------|
| 8 | 10  | 50607 |
|   | 1/4 | 50606 |



## Nylon Insulated

|       |         |         |
|-------|---------|---------|
| 22-18 | 4       | 50054N  |
|       | 6       | 50050N* |
|       | 6 Short | 50055N  |
|       | 8       | 50060N* |
|       | 10      | 50070N* |
|       | 1/4     | 50075N  |



|       |        |         |
|-------|--------|---------|
| 16-14 | 6      | 50140N* |
|       | 6 Wide | 50147N  |
|       | 8      | 50150N* |
|       | 10     | 50160N* |
|       | 1/4    | 50165N* |



|       |     |         |
|-------|-----|---------|
| 12-10 | 6   | 50270N* |
|       | 8   | 50280N* |
|       | 10  | 50290N* |
|       | 1/4 | 50234N* |



|   |     |        |
|---|-----|--------|
| 8 | 10  | 50607N |
|   | 1/4 | 50606N |



|   |     |        |
|---|-----|--------|
| 6 | 1/4 | 20726N |
|---|-----|--------|



## Stud Size Guide



# Spades

## 3-Pc Nylon w/ Sleeve

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 24-20     | 4         | 32414       |
|           | 6         | 32416       |
|           | 8         | 32418       |
|           | 10        | 32420       |
| 22-18     | 4         | 30054       |
|           | 6         | 30050       |
|           | 6 Short   | 30055       |
|           | 8         | 30060       |
|           | 10        | 30070       |
|           | 1/4       | 30075       |
| 16-14     | 6         | 30140       |
|           | 6 Wide    | 30147       |
|           | 8         | 30150       |
|           | 10        | 30160       |
|           | 1/4       | 30165       |
| 12-10     | 6         | 30270       |
|           | 8         | 30280       |
|           | 10        | 30290       |
|           | 1/4       | 30234       |



## Heat Shrink

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 4         | 40054       |
|           | 6         | 40050       |
|           | 6 Short   | 40055       |
|           | 8         | 40060       |
|           | 10        | 40070       |
|           | 1/4       | 40075       |
| 16-14     | 6         | 40140       |
|           | 8         | 40150       |
|           | 10        | 40160       |
|           | 1/4       | 40165       |
|           |           |             |
| 12-10     | 6         | 40270       |
|           | 8         | 40280       |
|           | 10        | 40290       |
|           | 1/4       | 40234       |



# Flanged Spades

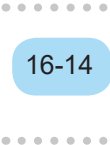
## Bare Butted Seam

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 10053 |
|       | 8  | 10063 |
|       | 10 | 10073 |
| 16-14 | 6  | 10143 |
|       | 8  | 10153 |
|       | 10 | 10163 |
| 12-10 | 6  | 10273 |
|       | 8  | 10283 |
|       | 10 | 10293 |



## Nylon Insulated

|       |    |        |
|-------|----|--------|
| 22-18 | 6  | 50053N |
|       | 8  | 50063N |
|       | 10 | 50073N |
| 16-14 | 6  | 50143N |
|       | 8  | 50153N |
|       | 10 | 50163N |
| 12-10 | 6  | 50273N |
|       | 8  | 50283N |
|       | 10 | 50293N |



## 3 Piece Nylon

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 30053 |
|       | 8  | 30063 |
|       | 10 | 30073 |
| 16-14 | 6  | 30143 |
|       | 8  | 30153 |
|       | 10 | 30163 |
| 12-10 | 6  | 30273 |
|       | 8  | 30283 |
|       | 10 | 30293 |



## Vinyl Insulated

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 50053 |
|       | 8  | 50063 |
|       | 10 | 50073 |
| 16-14 | 6  | 50143 |
|       | 8  | 50153 |
|       | 10 | 50163 |
| 12-10 | 6  | 50273 |
|       | 8  | 50283 |
|       | 10 | 50293 |



## Heat Shrink

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 40053 |
|       | 8  | 40063 |
|       | 10 | 40073 |
| 16-14 | 6  | 40143 |
|       | 8  | 40153 |
|       | 10 | 40163 |
| 12-10 | 6  | 40273 |
|       | 8  | 40283 |
|       | 10 | 40293 |



Flanged Spades are NOT brazed seam.

## Bare Butted Seam

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 10052*      |
|           | 6 Wide    | 10056       |
|           | 8         | 10062*      |
|           | 8 Slim    | 10068       |
|           | 10        | 10072*      |



|       |        |        |
|-------|--------|--------|
| 16-14 | 4      | 10144  |
|       | 6      | 10142* |
|       | 6 Wide | 10146  |
|       | 8      | 10152* |
|       | 8 Slim | 10158  |
|       | 10     | 10162* |



|       |    |        |
|-------|----|--------|
| 12-10 | 6  | 10272* |
|       | 8  | 10282* |
|       | 10 | 10292* |



## Bare Brazed Seam

|       |        |          |
|-------|--------|----------|
| 22-18 | 6      | 10052BZ* |
|       | 6 Wide | 10056BZ  |
|       | 8      | 10062BZ* |
|       | 8 Slim | 10068BZ  |
|       | 10     | 10072BZ* |



|       |        |          |
|-------|--------|----------|
| 16-14 | 4      | 10144BZ  |
|       | 6      | 10142BZ* |
|       | 6 Wide | 10146BZ  |
|       | 8      | 10152BZ* |
|       | 8 Slim | 10158BZ  |
|       | 10     | 10162BZ* |



|       |    |          |
|-------|----|----------|
| 12-10 | 6  | 10272BZ* |
|       | 8  | 10282BZ* |
|       | 10 | 10292BZ* |



## Vinyl Insulated

|       |        |        |
|-------|--------|--------|
| 22-18 | 6      | 50052* |
|       | 6 Wide | 50056  |
|       | 8      | 50062* |
|       | 8 Slim | 50068  |
|       | 10     | 50072* |



|       |        |        |
|-------|--------|--------|
| 16-14 | 4      | 50144  |
|       | 6      | 50142* |
|       | 6 Wide | 50146  |
|       | 8      | 50152* |
|       | 8 Slim | 50158  |
|       | 10     | 50162* |



|       |    |        |
|-------|----|--------|
| 12-10 | 6  | 50272* |
|       | 8  | 50282* |
|       | 10 | 50292* |



## Nylon Insulated

|       |        |         |
|-------|--------|---------|
| 22-18 | 6      | 50052N* |
|       | 6 Wide | 50056N  |
|       | 8      | 50062N* |
|       | 8 Slim | 50068N  |
|       | 10     | 50072N* |



|       |        |         |
|-------|--------|---------|
| 16-14 | 4      | 50144N  |
|       | 6      | 50142N* |
|       | 6 Wide | 50146N  |
|       | 8      | 50152N* |
|       | 8 Slim | 50158N  |
|       | 10     | 50162N* |



|       |    |         |
|-------|----|---------|
| 12-10 | 6  | 50272N* |
|       | 8  | 50282N* |
|       | 10 | 50292N* |



## 3-Pc Nylon w/ Sleeve

|       |        |       |
|-------|--------|-------|
| 22-18 | 6      | 30052 |
|       | 6 Wide | 30056 |
|       | 8      | 30062 |
|       | 8 Slim | 30068 |
|       | 10     | 30072 |



|       |        |       |
|-------|--------|-------|
| 16-14 | 4      | 30144 |
|       | 6      | 30142 |
|       | 6 Wide | 30146 |
|       | 8      | 30152 |
|       | 8 Slim | 30158 |
|       | 10     | 30162 |



|       |    |       |
|-------|----|-------|
| 12-10 | 6  | 30272 |
|       | 8  | 30282 |
|       | 10 | 30292 |



## Heat Shrink

|       |        |       |
|-------|--------|-------|
| 22-18 | 6      | 40052 |
|       | 6 Wide | 40056 |
|       | 8      | 40062 |
|       | 8 Slim | 40068 |
|       | 10     | 40072 |



|       |        |       |
|-------|--------|-------|
| 16-14 | 4      | 40144 |
|       | 6      | 40142 |
|       | 6 Wide | 40146 |
|       | 8      | 40152 |
|       | 8 Slim | 40158 |
|       | 10     | 40162 |



|       |    |       |
|-------|----|-------|
| 12-10 | 6  | 40272 |
|       | 8  | 40282 |
|       | 10 | 40292 |



## Bare Butted Seam

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 10051*      |
|           | 8         | 10061*      |
|           | 10        | 10071*      |
| .....     |           |             |
| 16-14     | 6         | 10141*      |
|           | 8         | 10151*      |
|           | 10        | 10161*      |
|           | 1/4       | 10231       |
| .....     |           |             |
| 12-10     | 6         | 10271*      |
|           | 8         | 10281*      |
|           | 10        | 10291*      |
|           | 1/4       | 10241*      |

## Nylon Insulated

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 50051N*     |
|           | 8         | 50061N*     |
|           | 10        | 50071N*     |
| .....     |           |             |
| 16-14     | 6         | 50141N*     |
|           | 8         | 50151N*     |
|           | 10        | 50161N*     |
|           | 1/4       | 50231N      |
| .....     |           |             |
| 12-10     | 6         | 50271N*     |
|           | 8         | 50281N*     |
|           | 10        | 50291N*     |
|           | 1/4       | 50241N*     |

## Bare Brazed Seam

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 10051BZ*    |
|           | 8         | 10061BZ*    |
|           | 10        | 10071BZ*    |
| .....     |           |             |
| 16-14     | 6         | 10141BZ*    |
|           | 8         | 10151BZ*    |
|           | 10        | 10161BZ*    |
| .....     |           |             |
| 12-10     | 6         | 10271BZ*    |
|           | 8         | 10281BZ*    |
|           | 10        | 10291BZ*    |
|           | 1/4       | 10241BZ*    |

## 3-Pc Nylon w/ Sleeve

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 30051       |
|           | 8         | 30061       |
|           | 10        | 30071       |
| .....     |           |             |
| 16-14     | 6         | 30141       |
|           | 8         | 30151       |
|           | 10        | 30161       |
|           | 1/4       | 30231       |
| .....     |           |             |
| 12-10     | 6         | 30271       |
|           | 8         | 30281       |
|           | 10        | 30291       |
|           | 1/4       | 30241       |

## Vinyl Insulated

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 50051*      |
|           | 8         | 50061*      |
|           | 10        | 50071*      |
| .....     |           |             |
| 16-14     | 6         | 50141*      |
|           | 8         | 50151*      |
|           | 10        | 50161*      |
|           | 1/4       | 50231       |
| .....     |           |             |
| 12-10     | 6         | 50271*      |
|           | 8         | 50281*      |
|           | 10        | 50291*      |
|           | 1/4       | 50241*      |

## Heat Shrink

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 40051       |
|           | 8         | 40061       |
|           | 10        | 40071       |
| .....     |           |             |
| 16-14     | 6         | 40141       |
|           | 8         | 40151       |
|           | 10        | 40161       |
| .....     |           |             |
| 12-10     | 6         | 40271       |
|           | 8         | 40281       |
|           | 10        | 40291       |
|           | 1/4       | 40241       |

## Bare Butted Seam

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 10067       |
|           | 8         | 10077       |
|           | 10        | 10087       |



|       |    |        |
|-------|----|--------|
| 16-14 | 6  | 10105* |
|       | 8  | 10110* |
|       | 10 | 10120* |



|       |    |        |
|-------|----|--------|
| 12-10 | 6  | 10128  |
|       | 8  | 10129  |
|       | 10 | 10130* |



## Bare Brazed Seam

|       |    |         |
|-------|----|---------|
| 22-18 | 6  | 10067BZ |
|       | 8  | 10077BZ |
|       | 10 | 10087BZ |



|       |    |          |
|-------|----|----------|
| 16-14 | 6  | 10105BZ* |
|       | 8  | 10110BZ* |
|       | 10 | 10120BZ* |



|       |    |          |
|-------|----|----------|
| 12-10 | 10 | 10130BZ* |
|-------|----|----------|



## Vinyl Insulated

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 50067 |
|       | 8  | 50077 |
|       | 10 | 50087 |



|       |    |        |
|-------|----|--------|
| 16-14 | 6  | 50105* |
|       | 8  | 50110* |
|       | 10 | 50120* |



|       |    |        |
|-------|----|--------|
| 12-10 | 6  | 50128  |
|       | 8  | 50129  |
|       | 10 | 50130* |



## Nylon Insulated

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 50067N      |
|           | 8         | 50077N      |
|           | 10        | 50087N      |



|       |    |         |
|-------|----|---------|
| 16-14 | 6  | 50105N* |
|       | 8  | 50110N* |
|       | 10 | 50120N* |



|       |    |         |
|-------|----|---------|
| 12-10 | 6  | 50128N  |
|       | 8  | 50129N  |
|       | 10 | 50130N* |



## 3-Pc Nylon w/ Sleeve

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 30067 |
|       | 8  | 30077 |
|       | 10 | 30087 |



|       |    |       |
|-------|----|-------|
| 16-14 | 6  | 30105 |
|       | 8  | 30110 |
|       | 10 | 30120 |



|       |    |       |
|-------|----|-------|
| 12-10 | 6  | 30128 |
|       | 8  | 30129 |
|       | 10 | 30130 |



## Heat Shrink

|       |    |       |
|-------|----|-------|
| 22-18 | 6  | 40067 |
|       | 8  | 40077 |
|       | 10 | 40087 |



|       |    |       |
|-------|----|-------|
| 16-14 | 6  | 40105 |
|       | 8  | 40110 |
|       | 10 | 40120 |



|       |    |       |
|-------|----|-------|
| 12-10 | 6  | 40128 |
|       | 8  | 40129 |
|       | 10 | 40130 |



# Nylon Insulated Brazed Barrel

## NEW SERIES OF TERMINALS

The brazed seam will not separate under pressure of operating stress.  
A funnel entry nylon insulator allows easy wire insertion.

### Rings

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 50020BZN    |
|           | 8         | 50030BZN    |
|           | 10        | 50040BZN    |
|           | 6-8-10    | 50040MBZN   |
|           | 1/4       | 50041BZN    |
|           | 5/16      | 50042BZN    |
| 3/8       | 50043BZN  |             |



|       |          |           |
|-------|----------|-----------|
| 16-14 | 6        | 50086BZN  |
|       | 8        | 50090BZN  |
|       | 10       | 50100BZN  |
|       | 6-8-10   | 50100MBZN |
|       | 1/4      | 50101BZN  |
|       | 5/16     | 50102BZN  |
| 3/8   | 50103BZN |           |



|       |          |           |
|-------|----------|-----------|
| 12-10 | 6        | 50210BZN  |
|       | 8        | 50220BZN  |
|       | 10       | 50230BZN  |
|       | 6-8-10   | 50230MBZN |
|       | 1/4      | 50240BZN  |
|       | 5/16     | 50250BZN  |
| 3/8   | 50260BZN |           |
| 1/2   | 50233BZN |           |



### Multi Stud Ring

|       |        |           |
|-------|--------|-----------|
| 22-18 | 6-8-10 | 50040MBZN |
|-------|--------|-----------|

|       |        |           |
|-------|--------|-----------|
| 16-14 | 6-8-10 | 50100MBZN |
|-------|--------|-----------|

|       |        |           |
|-------|--------|-----------|
| 12-10 | 6-8-10 | 50230MBZN |
|-------|--------|-----------|



### Male Quick Disconnects

|       |             |          |
|-------|-------------|----------|
| 22-18 | .250 x .032 | 50177BZN |
|-------|-------------|----------|

|       |             |          |
|-------|-------------|----------|
| 16-14 | .250 x .032 | 50181BZN |
|-------|-------------|----------|

|       |             |          |
|-------|-------------|----------|
| 12-10 | .250 x .032 | 50186BZN |
|-------|-------------|----------|



### Spades

| Wire Size | Stud Size | Part Number |
|-----------|-----------|-------------|
| 22-18     | 6         | 50050BZN    |
|           | 8         | 50060BZN    |
|           | 10        | 50070BZN    |



|       |    |          |
|-------|----|----------|
| 16-14 | 6  | 50140BZN |
|       | 8  | 50150BZN |
|       | 10 | 50160BZN |



|       |    |          |
|-------|----|----------|
| 12-10 | 6  | 50270BZN |
|       | 8  | 50280BZN |
|       | 10 | 50290BZN |



### Snap Spades

|       |    |          |
|-------|----|----------|
| 22-18 | 6  | 50051BZN |
|       | 8  | 50061BZN |
|       | 10 | 50071BZN |



|       |    |          |
|-------|----|----------|
| 16-14 | 6  | 50141BZN |
|       | 8  | 50151BZN |
|       | 10 | 50161BZN |



|       |     |          |
|-------|-----|----------|
| 12-10 | 6   | 50271BZN |
|       | 8   | 50281BZN |
|       | 10  | 50291BZN |
|       | 1/4 | 50241BZN |



### Block Spades

|       |    |          |
|-------|----|----------|
| 22-18 | 6  | 50052BZN |
|       | 8  | 50062BZN |
|       | 10 | 50072BZN |



|       |    |          |
|-------|----|----------|
| 16-14 | 6  | 50142BZN |
|       | 8  | 50152BZN |
|       | 10 | 50162BZN |



|       |    |          |
|-------|----|----------|
| 12-10 | 6  | 50272BZN |
|       | 8  | 50282BZN |
|       | 10 | 50292BZN |










# High Temperature Terminals




Non-Insulated Butted Seam Terminals are made of steel. They are nickel plated for temperatures up to 900° F (482° C)

**UP TO  
900°F**




## Rings

| Wire Size | Tab Width | Steel Nickel Plated |   |
|-----------|-----------|---------------------|---|
| 22-18     | 6         | 10020HT             |    |
|           | 8         | 10030HT             |   |
|           | 8         | 10038HT             |   |
|           | 10        | 10040HT             |   |
|           | 1/4       | 10041HT             |   |
|           | 5/16      | 10042HT             |   |
|           | 3/8       | 10043HT             |   |
| .....     |           |                     |   |
| 16-14     | 6         | 10086HT             |    |
|           | 8         | 10090HT             |   |
|           | 10        | 10100HT             |   |
|           | 1/4 Slim  | 10114HT             |   |
|           | 1/4       | 10101HT             |   |
|           | 5/16      | 10102HT             |   |
|           | 3/8       | 10103HT             |   |
| .....     |           |                     |   |
| 12-10     | 6         | 10210HT             |    |
|           | 8         | 10220HT             |   |
|           | 10        | 10230HT             |   |
|           | 1/4 Slim  | 10245HT             |   |
|           | 1/4       | 10240HT             |   |
|           | 5/16      | 10250HT             |   |
|           | 3/8       | 10260HT             |   |
|           | 1/2       | 10233HT             |   |
| .....     |           |                     |   |
| 8         | 10        | 10610HT             |   |
|           | 1/4       | 10611HT             |   |
|           | 5/16      | 10612HT             |   |
|           | 3/8       | 10613HT             |   |
| .....     |           |                     |   |
| 6         | 10        | 10615HT             |  |
|           | 1/4       | 10616HT             |   |
|           | 5/16      | 10617HT             |   |
|           | 3/8       | 10618HT             |   |
| .....     |           |                     |   |
| 4         | 5/16      | 10621HT             |  |
|           | 3/8       | 10622HT             |   |
| .....     |           |                     |   |
| 2         | 3/8       | 10630HT             |  |




## Butt Connectors

|       |         |   |
|-------|---------|---|
| 22-18 | 10080HT |  |
| ..... |         |   |
| 16-14 | 10170HT |  |
| ..... |         |   |
| 12-10 | 10310HT |  |


## Quick Connects

| Wire Size | Tab Width        | Steel Nickel Plated |   |
|-----------|------------------|---------------------|---|
| 22-18     | .250 x .032 Fem. | 10176HT             |  |
|           | .250 x .032 Male | 10177HT             |   |
|           | .187 x .020 Fem. | 10192HT             |   |
| .....     |                  |                     |   |
| 16-14     | .187 x .020 Fem. | 10195HT             |  |
|           | .250 x .032 Fem. | 10180HT             |   |
|           | .250 x .032 Male | 10181HT             |   |
| .....     |                  |                     |   |
| 12-10     | .250 x .032 Fem. | 10187HT             |  |
|           | .250 x .032 Male | 10186HT             |   |


## Spades

|       |     |         |   |
|-------|-----|---------|---|
| 22-18 | 6   | 10050HT |    |
|       | 8   | 10060HT |   |
|       | 10  | 10070HT |   |
| ..... |     |         |   |
| 16-14 | 6   | 10140HT |  |
|       | 8   | 10150HT |   |
|       | 10  | 10160HT |   |
| ..... |     |         |   |
| 12-10 | 6   | 10270HT |  |
|       | 8   | 10280HT |   |
|       | 10  | 10290HT |   |
|       | 1/4 | 10234HT |   |

## Block Spade

|       |    |         |   |
|-------|----|---------|---|
| 16-14 | 8  | 10152HT |  |
| ..... |    |         |   |
| 12-10 | 10 | 10292HT |   |

## Flags

|       |           |         |   |
|-------|-----------|---------|---|
| 16-14 | .250 Fem. | 10189HT |  |
|-------|-----------|---------|---|

High Temperature Terminals



# High Temperature Terminals (Cont.)

UP TO  
650°F

## Bare Seamless

| Wire Size | Stud Size | Copper Nickel Plated |
|-----------|-----------|----------------------|
| 22-18     |           | 10083LNP             |
| 16-14     |           | 10173XLNP            |
| 12-10     |           | 10313LNP             |



## Bare Brazed Rings

| Wire Size | Stud Size | Copper Nickel Plated |
|-----------|-----------|----------------------|
| 16-14     | 10        | 10100BZNP            |
| 12-10     | 8         | 10220BZNP            |
| 12-10     | 10        | 10230BZNP            |
| 12-10     | 1/4       | 10240BZNP            |



## Bare Butted

|       |  |         |
|-------|--|---------|
| 22-18 |  | 10080NP |
| 16-14 |  | 10170NP |
| 12-10 |  | 10310NP |



Non-Insulated butted, seamless and brazed seam parts are made of copper. They are nickel plated for temperatures up to 650° F (343° C).

# Piggyback Connectors

## Bare Butted Seam

| Wire Size | Tab Width   | Part Number |
|-----------|-------------|-------------|
| 22-18     | .250 x .032 | 10662       |
| 16-14     | .250 x .032 | 10663       |
| 12-10     | .250 x .032 | 10666       |



## 3-Pc Nylon w/ Sleeve

| Wire Size | Tab Width   | Part Number |
|-----------|-------------|-------------|
| 22-18     | .250 x .032 | 30662       |
| 16-14     | .250 x .032 | 30663       |
| 12-10     | .250 x .032 | 30664       |



## Vinyl Insulated

|       |             |       |
|-------|-------------|-------|
| 22-18 | .250 x .032 | 20662 |
| 16-14 | .250 x .032 | 20663 |
| 12-10 | .250 x .032 | 20664 |



NEW

## 3-Pc Nylon Fully Insulated

|       |             |       |
|-------|-------------|-------|
| 22-18 | .250 x .032 | 32662 |
| 16-14 | .250 x .032 | 32663 |



NEW

## Nylon Insulated

|       |             |        |
|-------|-------------|--------|
| 22-18 | .250 x .032 | 20662N |
| 16-14 | .250 x .032 | 20663N |
| 12-10 | .250 x .032 | 20664N |



## Heat Shrink

|       |             |       |
|-------|-------------|-------|
| 22-18 | .250 x .032 | 40662 |
| 16-14 | .250 x .032 | 40663 |
| 12-10 | .250 x .032 | 40664 |



Piggyback & Closed End Connectors

# Female Quick Disconnects

## Bare Butted Seam

| Wire Size | Tab Width   | Part Number |
|-----------|-------------|-------------|
| 22-18     | .110 x .020 | 10191       |
|           | .187 x .020 | 10192       |
|           | .205 x .020 | 10193       |
|           | .250 x .032 | 10176       |

|       |             |       |
|-------|-------------|-------|
| 16-14 | .110 x .020 | 10194 |
|       | .187 x .020 | 10195 |
|       | .205 x .020 | 10196 |
|       | .250 x .032 | 10180 |

|       |             |       |
|-------|-------------|-------|
| 12-10 | .250 x .032 | 10187 |
|       | .375 x .032 | 10166 |



## 3-Pc Nylon w/ Sleeve

| Wire Size | Tab Width   | Part Number |
|-----------|-------------|-------------|
| 22-18     | .110 x .020 | 30191       |
|           | .187 x .020 | 30192       |
|           | .250 x .032 | 30176       |

|       |             |       |
|-------|-------------|-------|
| 16-14 | .110 x .020 | 30194 |
|       | .187 x .020 | 30195 |
|       | .250 x .032 | 30180 |
|       | .375 x .032 | 30375 |

|       |                           |        |
|-------|---------------------------|--------|
| 12-10 | .187 x .032               | 30167  |
|       | .250 x .032               | 30187  |
|       | .375 x .032               | 30166  |
|       | Larger Barrel .250 x .032 | 30187B |



## Vinyl Insulated

|       |             |       |
|-------|-------------|-------|
| 22-18 | .110 x .020 | 20191 |
|       | .187 x .020 | 20192 |
|       | .187 x .020 | 50192 |
|       | .205 x .020 | 20193 |
|       | .205 x .020 | 50193 |

|       |             |       |
|-------|-------------|-------|
| 16-14 | .110 x .020 | 20194 |
|       | .187 x .020 | 20195 |
|       | .187 x .020 | 50195 |
|       | .205 x .020 | 20196 |
|       | .205 x .020 | 50196 |
|       | .250 x .032 | 50180 |

|       |                           |        |
|-------|---------------------------|--------|
| 12-10 | .187 x .032               | 20167  |
|       | .250 x .032               | 50187  |
|       | .375 x .032               | 20166  |
|       | Larger Barrel .250 x .032 | 50187B |



## Heat Shrink

|       |             |       |
|-------|-------------|-------|
| 22-18 | .110 x .020 | 40191 |
|       | .187 x .020 | 40192 |
|       | .250 x .032 | 40176 |

|       |             |                         |
|-------|-------------|-------------------------|
| 16-14 | .110 x .020 | 40194                   |
|       | .187 x .020 | 40195                   |
|       | .250 x .032 | 40180                   |
|       | .250 x .032 | 40180BRS (Brass Sleeve) |

|       |             |                         |
|-------|-------------|-------------------------|
| 12-10 | .250 x .032 | 40187                   |
|       | .250 x .032 | 40187BRS (Brass Sleeve) |
|       | .375 x .032 | 40166                   |



## Nylon Insulated

|       |             |        |
|-------|-------------|--------|
| 22-18 | .187 x .020 | 50192N |
|       | .205 x .020 | 50193N |
|       | .250 x .032 | 50176N |

|       |             |        |
|-------|-------------|--------|
| 16-14 | .187 x .020 | 20195N |
|       | .187 x .020 | 50195N |
|       | .205 x .020 | 50196N |
|       | .250 x .032 | 50180N |
|       | .375 x .032 | 20375N |
|       |             |        |

|       |             |               |
|-------|-------------|---------------|
| 12-10 | .187 x .032 | 20167N        |
|       | .250 x .032 | 50187N Rolled |
|       | .375 x .032 | 20166N        |
|       | .250 x .032 | 50213N Folded |



The part numbers beginning in "2" are Extruded Vinyl.

The parts numbers beginning in "5" are Injection Molded with funnel entry.

## Bare Butted Seam

| Wire Size | Tab Width   | Part Number |
|-----------|-------------|-------------|
| 22-18     | .110 x .020 | 10088       |
|           | .187 x .020 | 10197       |
|           | .250 x .032 | 10177*      |



|       |             |       |
|-------|-------------|-------|
| 16-14 | .110 x .020 | 10089 |
|       | .187 x .020 | 10198 |
|       | .250 x .032 | 10181 |



|       |             |        |
|-------|-------------|--------|
| 12-10 | .250 x .032 | 10186* |
|-------|-------------|--------|



## Bare Brazed Seam

|       |             |         |
|-------|-------------|---------|
| 22-18 | .250 x .032 | 10177BZ |
|       | .187 x .020 | 10197BZ |



|       |             |         |
|-------|-------------|---------|
| 16-14 | .250 x .032 | 10181BZ |
|       | .187 x .020 | 10198BZ |



|       |             |         |
|-------|-------------|---------|
| 12-10 | .250 x .032 | 10186BZ |
|-------|-------------|---------|



## Vinyl Insulated

|       |             |        |
|-------|-------------|--------|
| 22-18 | .110 x .020 | 20088  |
|       | .187 x .020 | 50197  |
|       | .250 x .032 | 50177* |



|       |             |       |
|-------|-------------|-------|
| 16-14 | .110 x .020 | 20089 |
|       | .187 x .020 | 50198 |
|       | .250 x .032 | 50181 |



|       |             |        |
|-------|-------------|--------|
| 12-10 | .250 x .032 | 50186* |
|-------|-------------|--------|



## Nylon Insulated

|       |             |         |
|-------|-------------|---------|
| 22-18 | .250 x .032 | 50177N* |
|       | .187 x .020 | 50197N  |



|       |             |         |
|-------|-------------|---------|
| 16-14 | .187 x .020 | 20198N  |
|       | .250 x .032 | 50181N* |



|       |             |         |
|-------|-------------|---------|
| 12-10 | .250 x .032 | 50186N* |
|-------|-------------|---------|



## 3-Pc Nylon w/ Sleeve

|       |             |       |
|-------|-------------|-------|
| 22-18 | .187 x .020 | 30197 |
|       | .250 x .032 | 30177 |



|       |             |       |
|-------|-------------|-------|
| 16-14 | .187 x .020 | 30198 |
|       | .250 x .032 | 30181 |



|       |             |       |
|-------|-------------|-------|
| 12-10 | .250 x .032 | 30186 |
|-------|-------------|-------|



## Heat Shrink

|       |             |       |
|-------|-------------|-------|
| 22-18 | .187 x .020 | 40197 |
|       | .250 x .032 | 40177 |



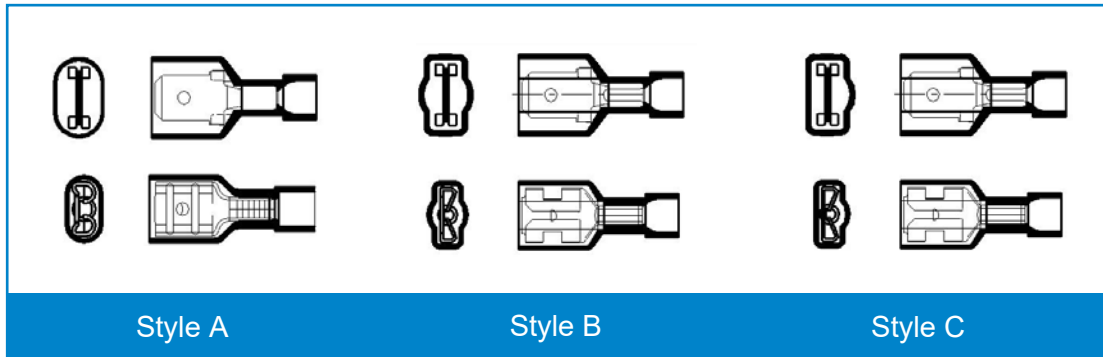
|       |             |       |
|-------|-------------|-------|
| 16-14 | .187 x .020 | 40198 |
|       | .250 x .032 | 40181 |



|       |             |       |
|-------|-------------|-------|
| 12-10 | .250 x .032 | 40186 |
|-------|-------------|-------|



# Quick Disconnects - Fully Insulated



Style A

Style B

Style C

## Nylon

| Wire Size | Style | Tab Width        | Part Number |
|-----------|-------|------------------|-------------|
| 22-18     | A     | .250 x .032 MALE | 20178       |
|           | A     | .250 x .032 FEM. | 20179       |
|           | B     | .250 x .032 MALE | 50206       |
|           | B     | .250 x .032 FEM. | 50207       |
|           | C     | .250 x .032 MALE | 50206-1Hump |
|           | C     | .250 x .032 FEM. | 50207-1Hump |
| 16-14     | A     | .250 x .032 MALE | 20182       |
|           | A     | .250 x .032 FEM. | 20183       |
|           | B     | .250 x .032 MALE | 50208       |
|           | B     | .250 x .032 FEM. | 50209       |
|           | C     | .250 x .032 MALE | 50208-1Hump |
|           | C     | .250 x .032 FEM. | 50209-1Hump |
| 12-10     | C     | .250 x .032 FEM. | 50213-1Hump |
|           | B     | .250 x .032 MALE | 50212       |
|           | B     | .250 x .032 FEM. | 50213       |

## 3-Pc Fully Nylon w/Sleeve

|       |   |                   |       |            |
|-------|---|-------------------|-------|------------|
| 22-18 | A | .110 x .020 FEM.  | 32191 | <b>NEW</b> |
|       | C | .187 x .020 MALE  | 32197 |            |
|       | C | .187 x .020 FEM.  | 32192 |            |
|       | A | .250 x .032 MALE  | 30178 |            |
|       | A | .250 x .032 FEM.  | 30179 |            |
| 16-14 | C | .187 x .020 MALE  | 32198 | <b>NEW</b> |
|       | C | .187 x .020 FEM.  | 32195 |            |
|       | A | .250 x .032 MALE  | 30182 |            |
|       | A | .250 x .032 FEM.  | 30183 |            |
| 12-10 | C | .250 x .032 FEM.  | 30199 | <b>NEW</b> |
|       | A | .250 x .032 FEM.  | 30213 |            |
|       | A | .250 x .032 MALE. | 30212 |            |

## Fully Insulated Vinyl

|       |   |                  |       |            |
|-------|---|------------------|-------|------------|
| 16-14 | A | .187 x .020 FEM. | 52195 | <b>NEW</b> |
|-------|---|------------------|-------|------------|

## Heat Shrink

| Wire Size | Style | Tab Width        | Part Number |
|-----------|-------|------------------|-------------|
| 22-18     | A     | .250 x .032 MALE | 44178       |
|           | A     | .250 x .032 FEM. | 44179       |
|           | B     | .250 x .032 MALE | 40206       |
|           | B     | .250 x .032 FEM. | 40207       |
|           | C     | .187 x .020 FEM. | 42192       |
| 16-14     | A     | .250 x .032 MALE | 44182       |
|           | A     | .250 x .032 FEM. | 44183       |
|           | B     | .250 x .032 MALE | 40208       |
|           | B     | .250 x .032 FEM. | 40209       |
| 12-10     | B     | .250 x .032 MALE | 40212       |
|           | B     | .250 x .032 FEM. | 40213       |

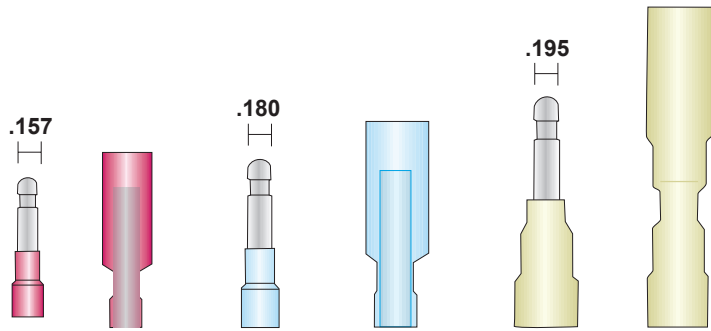
NEW Style: Tubing has been shortened to expose the improved crimping area.



## Heat Shrink (NEW STYLE)

|       |   |                  |       |
|-------|---|------------------|-------|
| 22-18 | B | .250 x .032 MALE | 90206 |
|       | B | .250 x .032 FEM. | 90207 |
|       | C | .187 x .020 FEM. | 92192 |
| 16-14 | B | .250 x .032 MALE | 90208 |
|       | B | .250 x .032 FEM. | 90209 |

# Bullet Connectors



## Bare Butted Seam

| Wire Size | Tab Width | Part Number |
|-----------|-----------|-------------|
| 22-18     | .157 Male | 10284       |
|           | .157 Fem. | 10285       |
| 16-14     | .157 Male | 10184       |
|           | .157 Fem. | 10185       |
|           | .195 Male | 10484       |
| 12-10     | .195 Male | 10384       |

## 3-Pc Nylon w/ Sleeve

| Wire Size | Tab Width | Part Number            |
|-----------|-----------|------------------------|
| 22-18     | .157 Male | 30884 Fully <b>NEW</b> |
|           | .157 Male | 30284                  |
|           | .157 Fem. | 30285                  |
| 16-14     | .157 Male | 30984 Fully <b>NEW</b> |
|           | .157 Male | 30184                  |
|           | .157 Fem. | 30185                  |

## Vinyl Insulated

|       |             |        |
|-------|-------------|--------|
| 22-18 | .157 Male   | 20284V |
|       | .157 Fem.   | 20285V |
|       | .180 Male   | 20784V |
|       | .180 Female | 20785V |
| 16-14 | .157 Male   | 20184V |
|       | .157 Fem.   | 20185V |
|       | .180 Male   | 20684V |
|       | .180 Fem.   | 20685V |
|       | .195 Male   | 20484V |
|       | .195 Fem.   | 20485V |
| 12-10 | .195 Male   | 20384V |
|       | .195 Fem.   | 20385V |

## Heat Shrink

|       |           |       |
|-------|-----------|-------|
| 22-18 | .157 Male | 40284 |
|       | .157 Fem. | 40285 |
|       | .180 Male | 40784 |
|       | .180 Fem. | 40785 |
| 16-14 | .157 Male | 40184 |
|       | .157 Fem. | 40185 |
|       | .180 Male | 40684 |
|       | .180 Fem. | 40685 |
|       | .195 Male | 40484 |
|       | .195 Fem. | 40485 |
| 12-10 | .195 Male | 40384 |
|       | .195 Fem. | 40385 |

## Nylon Insulated

|       |           |                        |
|-------|-----------|------------------------|
| 22-18 | .157 Male | 20884 Fully <b>NEW</b> |
|       | .157 Male | 20184                  |
|       | .157 Fem. | 20285                  |
|       | .180 Male | 20784                  |
|       | .180 Fem. | 20785                  |
| 16-14 | .157 Male | 20984 Fully <b>NEW</b> |
|       | .157 Male | 20184                  |
|       | .157 Fem. | 20185                  |
|       | .180 Male | 20684                  |
|       | .180 Fem. | 20685                  |

## Heat Shrink

|       |           |       |   |
|-------|-----------|-------|---|
| 22-18 | .157 Fem. | 90285 | <b>NEW</b><br>NEW Style:<br>Improved crimping area. |
| 16-14 | .157 Fem. | 90185 |   |

Bullet Connectors

# 3 Way Connectors

## Bare Butted Seam

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 10400       |
| 16-14     | 10410       |
| 12-10     | 10420       |

## Brazed Seam

|       |         |
|-------|---------|
| 22-18 | 10400BZ |
| 16-14 | 10410BZ |
| 12-10 | 10420BZ |

## Vinyl

|       |       |
|-------|-------|
| 22-18 | 50400 |
| 16-14 | 50410 |
| 12-10 | 50420 |



Part Number 50460

Custom 3 and 4 way connectors can be made in any combination of 22-18, 16-14, 12-10 and 8 gauge terminals in bare, brazed, vinyl, nylon, 3 pc or heat shrink.

## Nylon

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 50400N      |
| 16-14     | 50410N      |
| 12-10     | 50420N      |

## 3-Pc Nylon w/ Sleeve

|       |       |
|-------|-------|
| 22-18 | 30400 |
| 16-14 | 30410 |
| 12-10 | 30420 |

## Heat Shrink

|       |       |
|-------|-------|
| 22-18 | 40400 |
| 16-14 | 40410 |
| 12-10 | 40420 |

# 4 Way Connectors

## Bare Butted Seam

|       |       |
|-------|-------|
| 22-18 | 10430 |
| 16-14 | 10440 |
| 12-10 | 10450 |

## Brazed Seam

|       |         |
|-------|---------|
| 22-18 | 10430BZ |
| 16-14 | 10440BZ |
| 12-10 | 10450BZ |

## Vinyl

|       |       |
|-------|-------|
| 22-18 | 50430 |
| 16-14 | 50440 |
| 12-10 | 50450 |



## Nylon

|       |        |
|-------|--------|
| 22-18 | 50430N |
| 16-14 | 50440N |
| 12-10 | 50450N |

## 3-Pc Nylon w/ Sleeve





|       |       |
|-------|-------|
| 22-18 | 30430 |
| 16-14 | 30440 |
| 12-10 | 30450 |

## Heat Shrink

|       |       |
|-------|-------|
| 22-18 | 40430 |
| 16-14 | 40440 |
| 12-10 | 40450 |

# Pin Terminals



## Uninsulated Butted Seam

| Wire Size | Part Number |  |
|-----------|-------------|---|
| 22-18     | UPT1        |  |
| 16-14     | UPT2        |  |
| 12-10     | UPT5        |  |





## Vinyl Insulated

| Wire Size | Part Number    |  |
|-----------|----------------|---|
| 22-18     | PTV1<br>PTV1UL |  |
| 16-14     | PTV2<br>PTV2UL |  |
| 12-10     | PTV5<br>PTV5UL |  |

## 2-Pc Nylon





| Wire Size | Part Number     |  |
|-----------|-----------------|---|
| 22-18     | PTN1 <b>NEW</b> |  |
| 16-14     | PTN2 <b>NEW</b> |  |
| 12-10     | PTN5 <b>NEW</b> |  |

## 3-Pc Nylon w/ Sleeve



| Wire Size | Part Number |  |
|-----------|-------------|---|
| 22-18     | PT3N1       |  |
| 16-14     | PT3N2       |  |
| 12-10     | PT3N5       |  |

# Flags


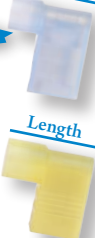
## Non Insulated

| Wire Size | Part Number                       | Length               | Tab Width  |  |
|-----------|-----------------------------------|----------------------|------------|---|
| 22-18     | 12188<br>10188                    | .187<br>.250         | <b>NEW</b> |  |
| 16-14     | 12189<br>10189<br>10669<br>(male) | .187<br>.250<br>.250 | <b>NEW</b> |  |
| 12-10     | 10190                             | .250                 |            |  |

## Heat Shrink

| Wire Size | Part Number    | Tab Width    |  |
|-----------|----------------|--------------|---|
| 22-18     | 42188<br>40188 | .187<br>.250 | <b>NEW</b>  |
| 16-14     | 42189<br>40189 | .187<br>.250 | <b>NEW</b>  |
| 12-10     | 40190          | .250         |  |

## Nylon Insulated

| Wire Size | Part Number              | Length     | Tab Width            |  |
|-----------|--------------------------|------------|----------------------|---|
| 22-18     | 22188<br>20188           | .187       | .250                 | <b>NEW</b>  |
| 16-14     | 22189<br>20189<br>20189L | .58<br>.82 | .187<br>.250<br>.250 | <b>NEW</b>  |
| 12-10     | 20190<br>20190L          | .68<br>.90 | .250<br>.250         |  |

See Page 37 [Tool \(20594\)](#) for 22-18 and 16-14 and [Tool \(20704\)](#) for 16-14 and 12-10.

## VOLTAGE RATINGS

Insulated Copper Terminals  
Insulated Brass Disconnects  
Tap Splices (16-10AWG)  
Tap Splices (18AWG)

600 volts MAX  
300 volts MAX  
32 volts MAX  
18 volts MAX

# Heat Shrink Terminals

| Description     | Wire Size          | Stud/Tab Width | Crimp & Seal (A) | Solder & Seal (B) | Crimp, Solder & Seal (C) | NYAX Crimp & Seal (A) | Clear View Crimp & Seal (D) |
|-----------------|--------------------|----------------|------------------|-------------------|--------------------------|-----------------------|-----------------------------|
| Butts           | 24-20 Ga.          | Seamless       | 40024            | 60024             | 80024                    |                       |                             |
|                 | 22-18 Ga.          | Seamless       | 20082            | 60082             | 80082                    | 40082                 | 99082                       |
|                 | 22-18 Ga.          | Seamless Long  | 20082L           |                   |                          | 40082L                |                             |
|                 | 16-14 Ga.          | Seamless       | 20172            | 60172             | 80172                    | 40172                 | 99172                       |
|                 | 16-14 Ga.          | Seamless Long  | 20172 L          |                   |                          | 40172L                |                             |
|                 | 12-10 Ga.          | Seamless       | 20312            | 60312             | 80312                    | 40312                 | 99312                       |
|                 |                    | Seamless Long  |                  |                   |                          | 40312L                |                             |
|                 |                    | 8 Ga.          | Seamless         | 40624             |                          |                       | 70624                       |
|                 | 6 Ga.              | Seamless       | 40625            |                   |                          |                       |                             |
| Step Down Butts | 26-24 to 22-18 Ga. |                | 40315            |                   |                          | 70315                 |                             |
|                 | 22-18 to 16-14 Ga. |                | 40316            |                   |                          | 70316                 |                             |
|                 | 16-14 to 12-10 Ga. |                | 40317            |                   |                          | 70317                 |                             |
|                 | 12-10 to 8 Ga.     |                | 40318            |                   |                          | 70318                 |                             |
| Rings           | 22-18 Ga.          | 6              | 40020            | 60020             | 80020                    | 70020                 |                             |
|                 |                    | 8              | 40030            | 60030             | 80030                    | 70030                 |                             |
|                 |                    | 10             | 40040            | 60040             | 80040                    | 70040                 |                             |
|                 |                    | 10 Long        | 40040L           |                   |                          | 70040L                |                             |
|                 |                    | 1/4"           | 40041            | 60041             | 80041                    | 70041                 |                             |
|                 |                    | 5/16"          | 40042            | 60042             | 80042                    | 70042                 |                             |
|                 |                    | 3/8"           | 40043            | 60043             | 80043                    | 70043                 |                             |
|                 |                    | 6-8-10 Multi   | 40040M           |                   |                          | 70040M                |                             |
|                 |                    | 10 Long        | 40040L           |                   |                          | 70040L                |                             |
| Rings           | 16-14 Ga.          | 4              | 40084            |                   |                          | 70084                 |                             |
|                 |                    | 6              | 40086            |                   |                          | 70086                 |                             |
|                 |                    | 6 Slim         | 40085            |                   |                          | 70085                 |                             |
|                 |                    | 8              | 40090            | 60090             | 80090                    | 70090                 |                             |
|                 |                    | 10             | 40100            | 60100             | 80100                    | 70100                 |                             |
|                 |                    | 10 Long        | 40100L           |                   |                          | 70100L                |                             |
|                 |                    | 1/4"           | 40101            | 60101             | 80101                    | 70101                 |                             |
|                 |                    | 1/4 Slim       | 40114            |                   |                          | 70114                 |                             |
|                 |                    | 5/16"          | 40102            | 60102             | 80102                    | 70102                 |                             |
|                 |                    | 3/8"           | 40103            | 60103             | 80103                    | 70103                 |                             |
|                 |                    | 1/2"           | 40104            |                   |                          | 70104                 |                             |
|                 |                    | 6-8-10 Multi   | 40100M           |                   |                          | 70100M                |                             |
|                 |                    | Rings          | 12-10 Ga.        | 6                 | 40210                    |                       |                             |
| 8               | 40220              |                |                  |                   |                          | 70220                 |                             |
| 10              | 40230              |                |                  | 60230             | 80230                    | 70230                 |                             |
| 10 Long         | 40230L             |                |                  |                   |                          | 70230L                |                             |
| 1/4"            | 40240              |                |                  | 60240             | 80240                    | 70240                 |                             |
| 1/4 Slim        | 40245              |                |                  |                   |                          | 70245                 |                             |
| 5/16"           | 40250              |                |                  | 60250             | 80250                    | 70250                 |                             |
| 3/8"            | 40260              |                |                  | 60260             | 80260                    | 70260                 |                             |
| 1/2"            | 40233              |                |                  | 60233             | 80233                    | 70233                 |                             |
| 6-8-10 Multi    | 40230M             |                |                  |                   |                          | 70230M                |                             |
| Rings           | 8 Ga.              | 8              | 40608            |                   |                          | 70608                 |                             |
|                 |                    | 10 Slim        | 40609            |                   |                          | 70609                 |                             |
|                 |                    | 10             | 40610            |                   |                          | 70610                 |                             |
|                 |                    | 1/4"           | 40611            |                   |                          | 70611                 |                             |
|                 |                    | 5/16"          | 40612            |                   |                          | 70612                 |                             |
|                 |                    | 3/8"           | 40613            |                   |                          | 70613                 |                             |
|                 |                    | 1/2"           | 40614            |                   |                          | 70614                 |                             |
| Spades          | 22-18 Ga.          | 4              | 40054            |                   |                          | 70054                 |                             |
|                 |                    | 6              | 40050            |                   |                          | 70050                 |                             |
|                 |                    | 6 Snap         | 40051            |                   |                          | 70051                 |                             |
|                 |                    | 6 Block        | 40052            |                   |                          | 70052                 |                             |
|                 |                    | 6 Flanged      | 40053            |                   |                          | 70053                 |                             |
|                 |                    | 8              | 40060            |                   |                          | 70060                 |                             |
|                 |                    | 8 Snap         | 40061            |                   |                          | 70061                 |                             |
|                 |                    | 8 Block        | 40062            |                   |                          | 70062                 |                             |
|                 |                    | 8 Flanged      | 40063            |                   |                          | 70063                 |                             |
|                 |                    | 8 Slim         | 40068            |                   |                          | 70068                 |                             |
|                 |                    | 10             | 40070            | 60070             | 80070                    | 70070                 |                             |
|                 |                    | 10 Snap        | 40071            |                   |                          | 70071                 |                             |
|                 |                    | 10 Block       | 40072            |                   |                          | 70072                 |                             |
|                 |                    | 10 Flanged     | 40073            |                   |                          | 70073                 |                             |
|                 |                    | 1/4"           | 40075            |                   |                          | 70075                 |                             |
|                 |                    | Spades         | 16-14 Ga.        | 4                 | 40144                    |                       |                             |
| 6               | 40140              |                |                  |                   |                          | 70140                 |                             |
| 6 Snap          | 40141              |                |                  |                   |                          | 70141                 |                             |
| 6 Block         | 40142              |                |                  |                   |                          | 70142                 |                             |

Heat Shrink Terminals



| Description                    | Wire Size | Stud/Tab Width     | Crimp & Seal (A) | Solder & Seal (B) | Crimp, Solder & Seal (C) | NYAX Crimp & Seal (A) |
|--------------------------------|-----------|--------------------|------------------|-------------------|--------------------------|-----------------------|
| Spades                         | 16-14 Ga. | 6 Flanged          | 40143            |                   |                          | 70143                 |
|                                |           | 8                  | 40150            |                   |                          | 70150                 |
|                                |           | 8 Snap             | 40151            |                   |                          | 70151                 |
|                                |           | 8 Block            | 40152            |                   |                          | 70152                 |
|                                |           | 8 Flanged          | 40153            |                   |                          | 70153                 |
|                                |           | 10                 | 40160            | 60160             | 80160                    | 70160                 |
|                                |           | 10 Snap            | 40161            |                   |                          | 70161                 |
|                                |           | 10 Block           | 40162            |                   |                          | 70162                 |
| Spades                         | 12-10 Ga. | 6                  | 40270            |                   |                          | 70270                 |
|                                |           | 6 Snap             | 40271            |                   |                          | 70271                 |
|                                |           | 6 Block            | 40272            |                   |                          | 70272                 |
|                                |           | 6 Flanged          | 40273            |                   |                          | 70273                 |
|                                |           | 8                  | 40280            |                   |                          | 70280                 |
|                                |           | 8 Snap             | 40281            |                   |                          | 70281                 |
|                                |           | 8 Block            | 40282            |                   |                          | 70282                 |
|                                |           | 8 Flanged          | 40283            |                   |                          | 70283                 |
|                                |           | 10                 | 40290            | 60290             | 80290                    | 70290                 |
|                                |           | 10 Snap            | 40291            |                   |                          | 70291                 |
|                                |           | 10 Block           | 40292            |                   |                          | 70292                 |
|                                |           | 10 Flanged         | 40293            |                   |                          | 70293                 |
|                                |           | 1/4                | 40234            |                   |                          | 70234                 |
|                                |           | 1/4 Snap           | 40241            |                   |                          | 70241                 |
| Hooks                          | 22-16 Ga. | 6                  | 40067            |                   |                          | 70067                 |
|                                |           | 8                  | 40077            |                   |                          | 70077                 |
|                                |           | 10                 | 40087            |                   |                          | 70087                 |
| Hooks                          | 16-14 Ga. | 6                  | 40105            |                   |                          | 70105                 |
|                                |           | 8                  | 40110            |                   |                          | 70110                 |
|                                |           | 10                 | 40120            |                   |                          | 70120                 |
| Hooks                          | 12-10 Ga. | 6                  | 40128            |                   |                          | 70128                 |
|                                |           | 8                  | 40129            |                   |                          | 70129                 |
|                                |           | 10                 | 40130            |                   |                          | 70130                 |
| Quick Connects                 | 22-18 Ga. | .110 Tab Female    | 40191            |                   |                          | 70191                 |
|                                |           | .187 Tab Female    | 40192            |                   |                          | 70192                 |
|                                |           | .187 Tab Male      | 40197            |                   |                          | 70197                 |
|                                |           | .250 Tab Female    | 40176            | 60176             | 80176                    | 70176                 |
|                                |           | .250 Tab Male      | 40177            | 60177             | 80177                    | 70177                 |
|                                |           | .250 Piggyback     | 40662            |                   |                          | 70662                 |
| Quick Connects                 | 16-14 Ga. | .110 Tab Female    | 40194            |                   |                          | 70194                 |
|                                |           | .187 Tab Female    | 40195            |                   |                          | 70195                 |
|                                |           | .187 Tab Male      | 40198            |                   |                          |                       |
|                                |           | .250 Tab Female    | 40180            | 60180             | 80180                    | 70180                 |
|                                |           | .250 Tab Male      | 40181            | 60181             | 80181                    | 70181                 |
|                                |           | .250 Piggyback     | 40663            |                   |                          | 70663                 |
| Quick Connects                 | 12-10 Ga. | .250 Tab Female    | 40187            | 60187             | 80187                    | 70187                 |
|                                |           | .250 Tab Male      | 40186            | 60186             | 80186                    | 70186                 |
|                                |           | .375 Tab Female    | 40166            |                   |                          | 70166                 |
|                                |           | .250 Piggyback     | 40664            |                   |                          | 70664                 |
| Bullets                        | 22-18 Ga. | .157 Fem Bullet    | 40285            |                   |                          | 70285                 |
|                                |           | .157 Male Bullet   | 40284            |                   |                          | 70284                 |
|                                |           | .180 Fem Bullet    | 40785            |                   |                          | 70785                 |
|                                |           | .180 Male Bullet   | 40784            |                   |                          | 70784                 |
|                                |           | .157 Fem Bullet    | 40185            |                   |                          | 70185                 |
| Bullets                        | 16-14 Ga. | .157 Male Bullet   | 40184            |                   |                          | 70184                 |
|                                |           | .180 Fem Bullet    | 40685            |                   |                          | 70685                 |
|                                |           | .180 Male Bullet   | 40684            |                   |                          | 70684                 |
|                                |           | .195 Fem Bullet    | 40485            |                   |                          | 70485                 |
|                                |           | .195 Male Bullet   | 40484            |                   |                          | 70484                 |
|                                |           | .195 Female Bullet | 40385            |                   |                          | 70385                 |
| Fully Ins. Quick Connects      | 22-18 Ga. | .250 Tab Female    | 40207            | 60179             | 80179                    | 70207                 |
|                                |           | .250 Tab Male      | 40206            |                   |                          | 70206                 |
|                                | 16-14 Ga. | .250 Tab Female    | 40209            | 60183             | 80183                    | 70209                 |
|                                |           | .250 Tab Male      | 40208            |                   |                          | 70208                 |
|                                | 12-10 Ga. | .250 Tab Female    | 40213            | 60199             | 80199                    | 70213                 |
|                                |           | .250 Tab Male      | 40212            |                   |                          | 70212                 |
| Oval Fully Ins. Quick Connects | 22-18 Ga. | .250 Tab Female    | 44179            |                   |                          | 74179                 |
|                                |           | .250 Tab Male      | 44178            |                   |                          | 74178                 |
|                                | 16-14 Ga. | .250 Tab Female    | 44183            |                   |                          | 74183                 |
|                                |           | .250 Tab Male      | 44182            |                   |                          | 74182                 |

Crimp & Seal (A) (D)



Crimp & Seal (A)

Solder & Seal (B)



Solder & Seal (B)

Crimp, Solder & Seal (C)



Crimp, Solder & Seal (C)

The terminals are copper (.110 alloy). The tubing is a high quality polyolefin or Nyax. Seamless connectors used on butts. Multiple wall heat shrinkable tubing, clearly marked. Rings and spades are brazed seam. Color coded with wire size.

# Heat Shrink Tubing

## Dual Wall - Adhesive Lined

### Shrink Ratio 2.5 to 1

| Wire Size | Color  | O.D. x Length | Part Number |
|-----------|--------|---------------|-------------|
| 22-16     | Red    | 3/16" x 6"    | 23280       |
| 16-14     | Blue   | 1/4" x 6"     | 23281       |
| 12-10     | Yellow | 5/16" x 6"    | 23282       |

## Thin Wall - No Adhesive

### Shrink Ratio 2 to 1

| Wire Size | Color | O.D. x Length | Part Number |
|-----------|-------|---------------|-------------|
| 22-16     | Black | 1/4" x 3"     | 23123       |
| 16-14     | Black | 3/8" x 3"     | 23125       |
| 12-10     | Black | 1/2" x 3"     | 23127       |

## Single Wall - No Adhesive

### Shrink Ratio 2 to 1

| Wire Size | Color | O.D. x Length | Part Number |
|-----------|-------|---------------|-------------|
| 24-20     | Black | 1/8" x 4'     | 23603       |
| 20-14     | Black | 3/16" x 4'    | 23604       |
| 14-8      | Black | 1/4" x 4'     | 23605       |
| 10-6      | Black | 5/16" x 4'    | 23606       |
| 8-4       | Black | 3/8" x 4'     | 23607       |
| 4-1       | Black | 1/2" x 4'     | 23608       |

## Dual Wall - Adhesive Lined

### Shrink Ratio 3 to 1

| Wire Size     | Expanded Diameter | Black     | Clear     | Red       |
|---------------|-------------------|-----------|-----------|-----------|
| 24-16         | 1/8" x 6"         | 23525-06B | 23525-06C | 23525-06R |
| 20-12         | 3/16" x 6"        | 23530-06B | 23530-06C | 23530-06R |
| 12-8          | 1/4" x 6"         | 23535-06B | 23535-06C | 23535-06R |
| 10-4          | 3/8" x 6"         | 23540-06B | 23540-06C | 23540-06R |
| 8-1           | 1/2" x 6"         | 23545-06B | 23545-06C | 23545-06R |
| 4-250MCM      | 3/4" x 6"         | 23550-06B | 23550-06C | 23550-06R |
| 1-500MCM      | 1" x 6"           | 23555-06B | 23555-06C | 23555-06R |
| 600-700 MCM   | 1 1/4" x 6"       | 23560-06B | 23560-06C | 23560-06R |
| 800-1000 MCM  | 1 1/2" x 6"       | 23565-06B | 23565-06C | 23565-06R |
| 1000-1250 MCM | 2" x 6"           | 23570-06B | 23570-06C | 23570-06R |

## Heat Shrink Tubing on a Reel 2:1 100ft

| Part Number | Single Wall No Adhesive                |
|-------------|--|
| 23610       | 1/8" Black 2:1 Heat Shrink 100ft Reel  |
| 23611       | 3/16" Black 2:1 Heat Shrink 100ft Reel |
| 23612       | 1/4" Black 2:1 Heat Shrink 100ft Reel  |
| 23613       | 3/8" Black 2:1 Heat Shrink 100ft Reel  |
| 23614       | 1/2" Black 2:1 Heat Shrink 100ft Reel  |
| 23615       | 3/4" Black 2:1 Heat Shrink 100ft Reel  |
| 23616       | 1" Black 2:1 Heat Shrink 100ft Reel    |

## Heat Shrink Tubing on a Reel 3:1

| Part Number | Adhesive Lined                         |
|-------------|--|
| 23710       | 1/8" Black 3:1 Heat Shrink 660ft Reel  |
| 23711       | 3/16" Black 3:1 Heat Shrink 330ft Reel |
| 23712       | 1/4" Black 3:1 Heat Shrink 330ft Reel  |
| 23713       | 3/8" Black 3:1 Heat Shrink 330ft Reel  |
| 23714       | 1/2" Black 3:1 Heat Shrink 100ft Reel  |
| 23715       | 3/4" Black 3:1 Heat Shrink 100ft Reel  |
| 23716       | 1" Black 3:1 Heat Shrink 100ft Reel    |

## Heat Shrink 3:1 Black 4ft

| Part Number | Adhesive Lined                 |
|-------------|--------------------------------|
| 23525-48B   | 1/8" 3:1 Black 4ft cut length  |
| 23530-48B   | 3/16" 3:1 Black 4ft cut length |
| 23535-48B   | 1/4" 3:1 Black 4ft cut length  |
| 23540-48B   | 3/8" 3:1 Black 4ft cut length  |
| 23545-48B   | 1/2" 3:1 Black 4ft cut length  |
| 23550-48B   | 3/4" 3:1 Black 4ft cut length  |
| 23555-48B   | 1" 3:1 Black 4ft cut length    |

### SHRINK TUBING CHART

| Tubing O.D. | Non Insulated | Vinyl/Nylon | Copper Lugs | Heavy Duty Lugs | Battery Terminals |
|-------------|---------------|-------------|-------------|-----------------|-------------------|
| 3/32"       | 26-24         |             |             |                 |                   |
| 1/8"        | 22-18         | 26-24       |             |                 |                   |
| 3/16"       | 16-14         | 22-18       |             |                 |                   |
| 1/4"        | 12-10         | 16-14       |             |                 |                   |
| 3/8"        | 8-6           | 12-10       | 8-6         | 8-4             |                   |
| 1/2"        | 4-2           | 8-6         | 4-1/0       | 1               | 4                 |
| 3/4"        | 1/0-3/0       | 4-1/0       | 2/0-4/0     | 1/0-3/0         | 1-3/0             |
| 1"          |               | 2/0-3/0     | 250MCM      | 4/0             | 4/0               |

## Heat Shrink Box Kits



### Black HS Box Kit

Part Number:  
5990-62 BLACK  
4": (20) 1/8", (20) 3/16", (10) 1/4",  
(5) 3/8", (5) 1/2", (2) 3/4"

3:1 Shrink Ratio-UL & CUL.  
Certified at 600V 125 degree C  
temp. 90-120 degree C-UL FILE  
E333465 RoHS Compliant



### Color HS Box Kit

Part Number:  
5990-160 MULTI  
4" Colors: Black, Blue, Clear,  
Green, Red, White, Yellow  
(60) 1/16", (35) 3/32", (25) 1/8",  
(20) 3/16", (10) 1/4", (10) 3/8"

2:1 Shrink Ratio-UL & CUL.  
Certified at 600V 125 degree C temp.  
90-120 degree C-UL FILE E333465  
RoHS Compliant



### Black HS Box Kit

Part Number:  
5990-160 BLACK  
4": (60) 1/16", (35) 3/32",  
(25) 1/8", (20) 3/16", (10) 1/4",  
(10) 3/8"

2:1 Shrink Ratio-UL & CUL.  
Certified at 600V 125 degree C  
temp. 90-120 degree C-UL FILE  
E333465 RoHS Compliant

# Heavy Duty Electrical Lugs

## Unplated

Wire Size Stud Size Part Number

8

10 8101-00  
1/4 8141-00  
5/16 8562-00  
3/8 8382-00  
1/2 8503-00



6

10 6101-00  
1/4 6141-00  
5/16 6562-00  
3/8 6382-00  
1/2 6503-00



4

10 4101-00  
1/4 4141-00  
5/16 4562-00  
3/8 4382-00  
1/2 4503-00



2

1/4 2141-00  
5/16 2561-00  
3/8 2381-00  
1/2 2503-00



1

1/4 1141-00  
5/16 1561-00  
3/8 1381-00  
1/2 1503-00



1/0

1/4 10141-00  
5/16 10561-00  
3/8 10381-00  
1/2 10501-00



2/0

1/4 20141-00  
5/16 20561-00  
3/8 20381-00  
1/2 20501-00



3/0

3/8 30381-00  
1/2 30501-00  
5/16 30561-00



4/0

3/8 40381-00  
1/2 40501-00



## Plated

Wire Size Stud Size Part Number

8

10 8101-60  
1/4 8141-60  
5/16 8562-60  
3/8 8382-60  
1/2 8503-60



6

10 6101-60  
1/4 6141-60  
5/16 6562-60  
3/8 6382-60  
1/2 6503-60



4

10 4101-60  
1/4 4141-60  
5/16 4562-60  
3/8 4382-60  
1/2 4503-60



2

1/4 2141-60  
5/16 2561-60  
3/8 2381-60  
1/2 2503-60



1

1/4 1141-60  
5/16 1561-60  
3/8 1381-60  
1/2 1503-60



1/0

1/4 10141-60  
5/16 10561-60  
3/8 10381-60  
1/2 10501-60



2/0

1/4 20141-60  
5/16 20561-60  
3/8 20381-60  
1/2 20501-60



3/0

1/4 30141-60  
5/16 30561-60  
3/8 30381-60  
1/2 30501-60



4/0

1/4 40141-60  
5/16 40561-60  
3/8 40381-60  
1/2 40501-60



3/8 4382-60-90  
1/4 4141-60-90  
5/16 4562-60-90  
3/8 6562-60-90  
3/8 30381-60-90



Other Size Available

## Metric & AWG Wire Size

| mm <sup>2</sup> | AWG |
|-----------------|-----|
| 1               | 16  |
| 2               | 14  |
| 3               | 12  |
| 4-5             | 10  |
| 6-8             | 8   |
| 9-13            | 6   |
| 14-21           | 4   |
| 22-35           | 2   |
| 36-42           | 1   |
| 43-53           | 1/0 |
| 54-68           | 2/0 |
| 69-86           | 3/0 |
| 87-107          | 4/0 |

4 - 6 - 3/0

## Plated

Wire Size Part Number

|     |          |
|-----|----------|
| 8   | 8001-25  |
| 6   | 6001-25  |
| 4   | 4001-25  |
| 2   | 2001-25  |
| 1   | 1001-25  |
| 1/0 | 10001-25 |
| 2/0 | 20001-25 |
| 3/0 | 30001-25 |
| 4/0 | 40000-25 |



# Battery Terminals

## Top Post Straights

| Wire Size | Post Type | Part Number | Color Code |
|-----------|-----------|-------------|------------|
| 6 GA      | Universal | C2101T      | Gray       |
| 4 GA      | Universal | C2102T      | Gray       |
| 4 GA      | Negative  | C2103T      | Gray       |
| 4 GA      | Positive  | C2104T      | Gray       |
| 2 GA      | Negative  | C2105T      | Green      |
| 2 GA      | Positive  | C2106T      | Green      |
| 1 GA      | Negative  | C2107T      | Pink       |
| 1 GA      | Positive  | C2108T      | Pink       |
| 1/0       | Negative  | C2109T      | Black      |
| 1/0       | Positive  | C2110T      | Black      |
| 2/0       | Negative  | C2111T      | Orange     |
| 2/0       | Positive  | C2112T      | Orange     |
| 3/0       | Negative  | C2113T      | Purple     |
| 3/0       | Positive  | C2114T      | Purple     |
| 4/0       | Negative  | C2115T      | Yellow     |
| 4/0       | Positive  | C2116T      | Yellow     |



## Top Post Left Elbows

| Wire Size | Post Type | Part Number | Color Code |
|-----------|-----------|-------------|------------|
| 1/0       | Negative  | C2409T      | Black      |
| 1/0       | Positive  | C2410T      | Black      |
| 2/0       | Negative  | C2411T      | Orange     |
| 2/0       | Positive  | C2412T      | Orange     |
| 3/0       | Negative  | C2413T      | Purple     |
| 3/0       | Positive  | C2414T      | Purple     |
| 4/0       | Negative  | C2415T      | Yellow     |
| 4/0       | Positive  | C2416T      | Yellow     |



## Top Post Right Angles (Flag)

| Wire Size | Post Type | Part Number | Color Code |
|-----------|-----------|-------------|------------|
| 1/0       | Negative  | C2209T      | Black      |
| 1/0       | Positive  | C2210T      | Black      |
| 2/0       | Negative  | C2211T      | Orange     |
| 2/0       | Positive  | C2212T      | Orange     |
| 3/0       | Negative  | C2213T      | Purple     |
| 3/0       | Positive  | C2214T      | Purple     |
| 4/0       | Negative  | C2215T      | Yellow     |
| 4/0       | Positive  | C2216T      | Yellow     |



## Stud - Side Mount Straights

| Wire Size | Post Type | Part Number | Color Code |
|-----------|-----------|-------------|------------|
| 4 GA      | Universal | C2602T      | Green      |
| 1-2 GA    | Universal | C2607T      | Pink       |
| 1/0       | Universal | C2609T      | Black      |
| 2/0       | Universal | C2611T      | Orange     |
| 3/0       | Universal | C2613T      | Purple     |



## Stud - Side Mount (Splice)

| Wire Size | Post Type | Part Number | Color Code |
|-----------|-----------|-------------|------------|
| 1/0       | Universal | C2709T      | Black      |
| 2/0       | Universal | C2711T      | Orange     |
| 3/0       | Universal | C2713T      | Purple     |



Exceeds SAE conductivity standards

## Top Post Right Elbows

| Wire Size | Post Type | Part Number | Color Code |
|-----------|-----------|-------------|------------|
| 1/0       | Negative  | C2309T      | Black      |
| 1/0       | Positive  | C2310T      | Black      |
| 2/0       | Negative  | C2311T      | Orange     |
| 2/0       | Positive  | C2312T      | Orange     |
| 3/0       | Negative  | C2313T      | Purple     |
| 3/0       | Positive  | C2314T      | Purple     |
| 4/0       | Negative  | C2315T      | Yellow     |
| 4/0       | Positive  | C2316T      | Yellow     |



**Extra Nuts & Bolts Available**

Part Number - Nuts & Bolts



- Made of cast copper, tin plated to resist corrosion
- Exceeds SAE conductivity standards, J163 and J1811
- Permanent indelible, readable gauge and polarity stamped on clamp
- Quick Connectors are listed by UL (UL STD. 486A), when applied with Quick Cable HexCrimp tools 4255-001, 4255-001M or 4255-001R
- Made in U.S.A.

**Nuts and Bolts A.** 5/16" x 18 x 1 1/4" - Standard for Above Parts

**Nuts and Bolts B.** 5/16" - 18 x 1 1/2"

# Battery Covers

## Medium Duty Starter

| Wire Size | Color | Part Number |
|-----------|-------|-------------|
| 8-2       | Black | 7001B       |
|           | Red   | 7001R       |



## Alternator Caps

|        |       |       |
|--------|-------|-------|
| 1-8-10 | Black | 7003B |
|        | Red   | 7003R |
| 6-2/0  | Black | 7703B |
|        | Red   | 7703R |



## Straight Cover

|     |       |       |
|-----|-------|-------|
| 8-6 | Black | 7006B |
|     | Red   | 7006R |
| 1/0 | Black | 7007B |
|     | Red   | 7007R |
| 2/0 | Black | 7008B |
|     | Red   | 7008R |



Protects live wire power connections from accidental shorts. High temperature PVC construction rated at 190° F / 90° C.

## Terminal Insulator

| Wire Size | Width x Height (Inches) | Part Number    |
|-----------|-------------------------|----------------|
| 18-10     | .472 x .870             | 7009R          |
|           | .551 x .870             | 7010R          |
|           | .709 x .870             | 7011R          |
| 8-1       | .472 x .870             | 7012R          |
|           | .551 x .870             | 7013R          |
|           | .630 x .870             | 7014R          |
|           | .709 x .870             | 7015R          |
| 2-2/0     | .787 x .940             | 7016R          |
|           | .866 x 1.05             | 7017R          |
|           | .945 x 1.13             | 7018R          |
|           | 1.26 x 1.16             | 7019R<br>7020R |



## Universal Marine Cap

This cap will swivel to accommodate the cable direction. For use with single or multiple cables up to 19mm (0.75")

7024R



# Battery Cables

Battery Cable is the OEM standard. Our battery cable meets or exceeds standards established by the Society of Automotive Engineers, (SAE). Battery cable, insulated with PVC, is flame retardant & resistant to fuel, oil, acid and salt.

| Gauge | Color Coded Stripe | Battery Cable with PVC insulation |           |
|-------|--------------------|-----------------------------------|-----------|
|       |                    | Black                             | Red       |
| 8     | Gray               | 58008-25B                         | 58008-25R |
| 6     | Gray               | 58006-25B                         | 58006-25R |
| 4     | Gray               | 58004-25B                         | 58004-25R |
| 2     | Green              | 58002-25B                         | 58002-25R |
| 1     | Pink               | 58001-25B                         | 58001-25R |
| 1/0   | Black              | 58010-25B                         | 58010-25R |
| 2/0   | Orange             | 58020-25B                         | 58020-25R |
| 3/0   | Purple             | 58030-25B                         | 58030-25R |
| 4/0   | Yellow             | 58040-25B                         | 58040-25R |

| TRAILER CABLE | WIRE | FT  | CONDUCTOR | COLOR                      |
|---------------|------|-----|-----------|----------------------------|
| 59124         | 12   | 100 | 4         | BK,RD,BR,WH                |
| 59144-A       | 14   | 100 | 4         | YL, RD, GR, BR             |
| 59144-B       | 14   | 100 | 4         | WH, BR, YL, GR             |
| 59144-C       | 14   | 100 | 4         | BK, RD, BR, WH             |
| 59164-A       | 16   | 100 | 4         | YL, RD, GR, BR             |
| 59164-B       | 16   | 100 | 4         | BK, RD, BR, WH             |
| 59126         | 12   | 100 | 6         | RD, GR, BR, WH, BK, YL     |
| 59146-A       | 14   | 100 | 6         | RD, BL, GR, YL, BR, BK     |
| 59146-B       | 14   | 100 | 6         | RD, GR, BR, WH, BK, YL     |
| 59166-A       | 16   | 100 | 6         | GR, BL, YL, BK, RD, BR     |
| 59166-B       | 16   | 100 | 6         | RD, GR, BR, WH, BK, YL     |
| 59147         | 14   | 100 | 7         | RD, GR, BR, WH, BK, YL, BL |



25ft  
ROLL



# Cable Ties & Accessories

## Slimlines - 18 lb Tensile Strength

|     | Width | Tensile Strength | Clear Part Number | Black Part Number |
|-----|-------|------------------|-------------------|-------------------|
| 4   | .100  | 18               | 20564             | 20564B            |
| 5.5 | .100  | 18               | 20561             | 20561B            |
| 8   | .100  | 18               | 20565             | 20565B            |

## Intermediate - 40 lb Tensile Strength

|     |      |    |       |        |
|-----|------|----|-------|--------|
| 5.5 | .140 | 40 | 20562 | 20562B |
| 8.5 | .140 | 40 | 20563 | 20563B |

## Standard - 50 lb Tensile Strength

|      |      |    |       |        |
|------|------|----|-------|--------|
| 7    | .190 | 50 | 20568 | 20568B |
| 11   | .190 | 50 | 20566 | 20566B |
| 14.5 | .190 | 50 | 20567 | 20567B |

## Heavy Duty - 120 - 175 lb Tensile Strength

|      |      |     |        |         |
|------|------|-----|--------|---------|
| 14.5 | .300 | 120 | 20567X | 20567XB |
| 24   | .350 | 175 | 20559X | 20559XB |
| 36   | .350 | 175 | 20560X | 20560XB |

## Mount Head - 50 lb Tensile Strength

|     |      |    |       |        |
|-----|------|----|-------|--------|
| 7.5 | .190 | 50 | 20557 | 20557B |
|-----|------|----|-------|--------|



## Releasable Tie

- Part # 20536 5" 50LB Release Clear
- Part # 20536B 5" 50LB Release Black
- Part # 20537 8" 50LB Release Clear
- Part # 20537B 8" 50LB Release Black
- Part # 20538 11" 50LB Release Clear
- Part # 20538B 11" 50LB Release Black
- Part # 20539 14" 50LB Release Clear
- Part # 20539B 14" 50LB Release Black

**NEW**

## Releasable Tie Kits

- 5990-245RC 100-20536 100-20537
- 10-20501-20502-20503-20504 5-20506
- 5990-245RB 100-20536B 100-20537B
- 10-20501-20502-20503-20504 5-20506

**NEW**



*Each compartment opens individually.*

## Cable Tie Tool

Part Number 20609

- Automatically cuts excess cable ties flush
- Adjustable tension settings
- Recommended use for 18-50 Lb. Wire Ties



## Adhesive Mount

| Size      | Color | Part Number |
|-----------|-------|-------------|
| 3/4 x 3/4 | Clear | 23060       |
| 3/4 x 3/4 | Black | 23060B      |
| 1 x 1     | Clear | 23061       |
| 1 x 1     | Black | 23061B      |



## Nylon Clamps

| Screw Size | Max Bundle | Part Number |
|------------|------------|-------------|
| 8          | .12        | 23427       |
| 8          | .25        | 23429       |
| 8          | .50        | 23434       |



## Cable Tie Cutter

Part Number  
20710



## Heavy Duty Cable Tie Tool

Part Number  
20708

- Recommended use for 120-175 Lb. Wire Ties



## Steel Cushioned Clamps

| Screw Size | Max Bundle | Part Number |
|------------|------------|-------------|
| 1/4        | .250       | 23436       |
| 1/4        | .375       | 23438       |
| 1/4        | .500       | 23440       |
| 1/4        | .625       | 23441       |
| 1/4        | .750       | 23443       |
| 1/4        | .875       | 23442       |
| 1/4        | 1.00       | 23444       |
| 1/4        | 1.25       | 23445       |



**New  
More  
Sizes**



**100 ft  
ROLL**

## GPT Primary Wire

|        | 8 GA  | 10 GA  | 12 GA  | 14 GA  | 16 GA  | 18 GA  | 20 GA |
|--------|-------|--------|--------|--------|--------|--------|-------|
| Purple |       | 54100  | 54120  | 54140  | 54160  | 54180  |       |
| Black  | 54081 | 54101  | 54121  | 54141  | 54161  | 54181  | 54201 |
| Orange |       | 54102  | 54122  | 54142  | 54162  | 54182  |       |
| Green  |       | 54103  | 54123  | 54143  | 54163  | 54183  |       |
| White  | 54084 | 54104  | 54124  | 54144  | 54164  | 54184  |       |
| Brown  |       | 54105  | 54125  | 54145  | 54165  | 54185  |       |
| Pink   |       | 54106  | 54126  | 54146  | 54166  | 54186  |       |
| Red    | 54087 | 54107  | 54127  | 54147  | 54167  | 54187  | 54207 |
| Blue   |       | 54108  | 54128  | 54148  | 54168  | 54188  |       |
| Yellow |       | 54109  | 54129  | 54149  | 54169  | 54189  |       |
| Gray   |       | 541010 | 541210 | 541410 | 541610 | 541810 |       |

80°C 60 Volt PVC Insulation

500 ft. and 1,000 ft. spools available on request

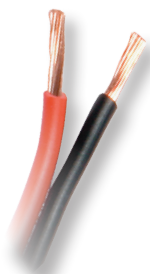
### Recommended Uses

- 10 GA For generator, heater switch, air conditioner, meter & panel lights
- 12 GA Light switches & ignition switches
- 14 GA Horn button circuit, head lights, gas gauge to coil & cigarette lighter
- 16 GA Header leads, gas gauge, directionals, stop signal & generator to starter
- 18 GA Single, bulb, low amp circuits & clock

### Trailer Wire

(100 ft. Spools)

| Wire Size | 2 Conductor<br>Black-Red |
|-----------|--------------------------|
| 14        | 53142                    |
| 16        | 53162                    |
| 18        | 53182                    |



### Jacketed Primary Wire

(100 ft. Spools)

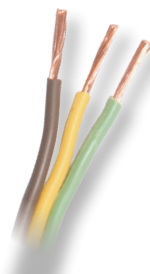
| Wire Size | 2 Conductor<br>Black-White |
|-----------|----------------------------|
| 8         | 55082                      |
| 10        | 55102                      |
| 12        | 55122                      |
| 14        | 55142                      |
| 16        | 55162                      |



### Trailer Wire

(100 ft. Spools)

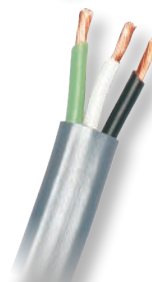
| Wire Size | 3 Conductor<br>Brown-Green-Yellow |
|-----------|-----------------------------------|
| 14        | 53143                             |
| 16        | 53163                             |
| 18        | 53183                             |



### Jacketed Primary Wire

(100 ft. Spools)

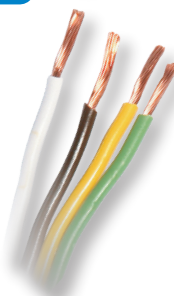
| Wire Size | 3 Conductor<br>Black-Green-White |
|-----------|----------------------------------|
| 10        | 55103                            |
| 12        | 55123                            |
| 14        | 55143                            |
| 16        | 55163                            |



### Trailer Wire

(100 ft. Spools)

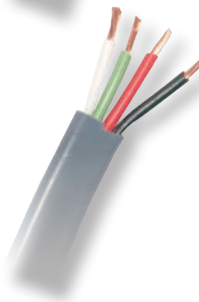
| Wire Size | 4 Conductor<br>Brown-Green<br>Yellow-White |
|-----------|--|
| 14        | 53144                                      |
| 16        | 53164                                      |
| 18        | 53184                                      |



### Jacketed Primary Wire

(100 ft. Spools)

| Wire Size | 4 Conductor<br>Black-Green<br>Red-White |
|-----------|---|
| 10        | 55104                                   |
| 12        | 55124                                   |
| 14        | 55144                                   |
| 16        | 55164                                   |



Recommended for RVs, boats and utility trailers.

Recommended for auto, truck, agriculture, construction and light marine applications. Heavy Duty flat PVC outer jacket is abrasion resistant and protects against moisture, oil, acid & salt.

# Screw on Connectors

## Finger Grip Connectors

Rated to 105°C (221°F) 600 volt max

| Wire Size | Min. | Max | Part Number |
|-----------|------|-----|-------------|
|-----------|------|-----|-------------|

|       |       |       |       |
|-------|-------|-------|-------|
| 18-10 | 2 #18 | 3 #12 | 20584 |
|-------|-------|-------|-------|



|      |       |       |       |
|------|-------|-------|-------|
| 18-8 | 3 #16 | 5 #12 | 20586 |
|------|-------|-------|-------|



|      |                  |       |       |
|------|------------------|-------|-------|
| 18-8 | 3 #14<br>w/1 #18 | 3 #10 | 20588 |
|------|------------------|-------|-------|



|      |                  |                 |       |
|------|------------------|-----------------|-------|
| 14-6 | 2 #10<br>w/1 #12 | 1 #8<br>w/3 #10 | 20589 |
|------|------------------|-----------------|-------|



For a wider range of coverage

|      |       |       |       |
|------|-------|-------|-------|
| 22-8 | 3 #22 | 4 #12 | 20509 |
|------|-------|-------|-------|



## Performance Plus Connectors

Rated 105°C (221°F) 300/600 Volt Max.  
Replaces eight standard connectors

|       |       |       |       |
|-------|-------|-------|-------|
| 22-12 | 2 #22 | 2 #12 | 20540 |
|-------|-------|-------|-------|



|      |       |      |       |
|------|-------|------|-------|
| 18-8 | 2 #18 | 2 #8 | 20541 |
|------|-------|------|-------|



|      |       |       |       |
|------|-------|-------|-------|
| 14-8 | 4 #14 | 5 #12 | 20542 |
|------|-------|-------|-------|



## IDC Connectors

| P/N             | Photo | Wire Gauge  | Max OD | How to use |
|-----------------|-------|-------------|--------|------------|
| 20528<br>Yellow |       | (22-18 AWG) | 1.52mm |            |
| 20527<br>Orange |       | (22-18AWG)  | 2.08mm |            |
| 20526<br>Red    |       | (19-26AWG)  | 1.67mm |            |
| 20525<br>Red    |       | (19-26AWG)  | 2.08mm |            |

## Screw On Connectors

Rated 105°C (221°F) 300/600 Volt Max.

| Wire Size | Min. | Max | Part Number |
|-----------|------|-----|-------------|
|-----------|------|-----|-------------|

|       |       |               |       |
|-------|-------|---------------|-------|
| 22-14 | 2 #22 | 1 #16 w/1 #18 | 20501 |
|-------|-------|---------------|-------|



|       |       |       |       |
|-------|-------|-------|-------|
| 22-14 | 2 #22 | 3 #16 | 20502 |
|-------|-------|-------|-------|



|       |                |                |       |
|-------|----------------|----------------|-------|
| 22-14 | 1 #18 w/ 1 #20 | 4 #16 w/ 1 #20 | 20503 |
|-------|----------------|----------------|-------|



|       |       |                |       |
|-------|-------|----------------|-------|
| 22-10 | 3 #20 | 2 #12 w/ 2 #14 | 20504 |
|-------|-------|----------------|-------|



|       |       |               |       |
|-------|-------|---------------|-------|
| 22-10 | 3 #18 | 2 #20 w/2 #12 | 20506 |
|-------|-------|---------------|-------|



## Ceramic Connectors

Rated 1000°F Max. 600 V

|       |                |       |       |
|-------|----------------|-------|-------|
| 22-14 | 1 #14 w/ 1 #16 | 2 #14 | 20543 |
|-------|----------------|-------|-------|

|       |       |       |       |
|-------|-------|-------|-------|
| 22-10 | 3 #14 | 2 #10 | 20544 |
|-------|-------|-------|-------|

|      |                |      |       |
|------|----------------|------|-------|
| 18-8 | 3 #14 w/ 3 #16 | 2 #8 | 20545 |
|------|----------------|------|-------|



## Winged Grounding Connector

Color coded GREEN for quick identification as a  
grounding conductor for copper wire only.  
Rated to 105°C (221°F) 1000 volt max

|       |       |       |       |
|-------|-------|-------|-------|
| 14-10 | 2 #14 | 5 #12 | 20583 |
|-------|-------|-------|-------|



## W/P Connector Kits

Part Number: 5990-34  
34 pc. Aqua W/P Connector Kit  
20580 - 20 pc.  
20581 - 10 pc.  
20582 - 4 pc.

### Purchase Individually

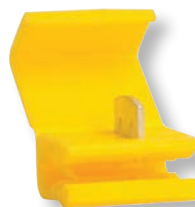
20580 22-12 Orange W/P Connector  
20581 22-8 Red W/P Connector  
20582 14-6 Blue W/P Connector





# Instant Tap Connectors

\* UL & CSA Listed Part  
# UL & CUL Listed Part  
+ UL Listed Only



Rated 105°C 600 volts

75°C 300 volts

20510   
#20510UL import   
22-16 with stop

20500   
#20500J import   
18-14 with stop

20512   
#20512UL import   
18-14 no stop

20511   
#20511UL   
12-10 with stop

**Flame Retardant**   
#20500UL no stop   
#20500ULWS with stop   
18-14



WITH WIRE STOP



WITH NO WIRE STOP

Made in U.S.A

# T-Tap Connectors



**Double  
Blades**  
**NEW  
Items**



Rated 105°C 600 volts

Rated 105°C 600 volts

20513   
24-20

20514   
#20514UL   
22-16

20515   
#20515UL   
16-14

20516   
#20516UL   
12-10

20514DB   
22-16

20515DB   
16-14

20516DB   
12-10



## IDC Connectors

| Wire Size | Description            | Part Number     |
|-----------|------------------------|-----------------|
| 22-14     | Blue w/ Gel 3M 314 IMP | 20518<br>20518A |
| 22-14     | Clear 3M 314U          | 20519           |
| 22-16     | Black w/Gel 3M 316IR   | 20520           |

## Misc. Connectors

| Wire Size     | Description                 | Part Number     |
|---------------|-----------------------------|-----------------|
| 18-14 / 12-10 | Brown Dual Tap 3M 902 IMP   | 20521<br>20521A |
| 22-16 / 12-10 | Red Dual Tap 3M 558 IMP     | 20555<br>20555A |
| 18-16         | Blue Tap w/ Gel 3M 804 IMP  | 20522<br>20522A |
| 18-16         | Bullet Style Tap 3M 901 IMP | 20523<br>20523A |
| 18-16         | Auto Fuse Holder 3M 972 IMP | 20524<br>20524A |

**NEW  
Item**

# Fuses & Fuse Holders

## Micro Fuse Low Profile

**NEW  
Item**

| Amp | Color  | Part Number |
|-----|--------|-------------|
| 5   | Tan    | 63205       |
| 7.5 | Brown  | 63207       |
| 10  | Red    | 63210       |
| 15  | Blue   | 63215       |
| 20  | Yellow | 63220       |
| 25  | Clear  | 63225       |
| 30  | Green  | 63230       |



## Mini Fuse

|     |        |       |
|-----|--------|-------|
| 2   | Gray   | 63002 |
| 3   | Violet | 63003 |
| 4   | Pink   | 63004 |
| 5   | Tan    | 63005 |
| 7.5 | Brown  | 63007 |
| 10  | Red    | 63010 |
| 15  | Blue   | 63015 |
| 20  | Yellow | 63020 |
| 25  | Clear  | 63025 |
| 30  | Green  | 63030 |



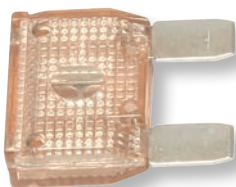
## Standard Fuse

|     |        |       |
|-----|--------|-------|
| 1   | Black  | 63101 |
| 2   | Grey   | 63102 |
| 3   | Violet | 63103 |
| 4   | Pink   | 63104 |
| 5   | Tan    | 63105 |
| 7.5 | Brown  | 63107 |
| 10  | Red    | 63110 |
| 15  | Blue   | 63115 |
| 20  | Yellow | 63120 |
| 25  | Clear  | 63125 |
| 30  | Green  | 63130 |
| 35  | Purple | 63135 |
| 40  | Orange | 63140 |



## Maxi Fuse

|     |        |       |
|-----|--------|-------|
| 20  | Yellow | 63420 |
| 30  | Green  | 63430 |
| 40  | Orange | 63440 |
| 50  | Red    | 63450 |
| 60  | Blue   | 63460 |
| 70  | Brown  | 63470 |
| 80  | Clear  | 63480 |
| 100 | Violet | 63490 |



## Mini Fuse Holder w/ 12" wire

| Wire Range             | Part Number |
|------------------------|-------------|
| 12GA - Rated to 30 Amp | 90012       |
| 14GA - Rated to 20 Amp | 90014       |
| 16GA - Rated to 10 Amp | 90016       |
| 18GA - Rated to 5 Amp  | 90018       |



## Standard Holder w/ 8" wire

|                        |       |
|------------------------|-------|
| 10GA - Rated to 40 Amp | 90110 |
| 12GA - Rated to 30 Amp | 90112 |
| 14GA - Rated to 20 Amp | 90114 |
| 16GA - Rated to 10 Amp | 90116 |
| 18GA - Rated to 5 Amp  | 90118 |



## Standard Holder w/ 12" wire

|                        |       |
|------------------------|-------|
| 10GA - Rated to 40 Amp | 90210 |
| 12GA - Rated to 30 Amp | 90212 |
| 14GA - Rated to 20 Amp | 90214 |
| 16GA - Rated to 10 Amp | 90216 |
| 18GA - Rated to 5 Amp  | 90218 |



## Standard Holder w/ 12" wire

|                        |       |
|------------------------|-------|
| 12GA - Rated to 30 Amp | 90312 |
| 14GA - Rated to 20 Amp | 90314 |
| 16GA - Rated to 10 Amp | 90316 |
| 18GA - Rated to 5 Amp  | 90318 |



## Maxi Fuse Holder w/ 12" wire

|                        |       |
|------------------------|-------|
| 8GA - Rated to 60 Amp  | 90408 |
| 10GA - Rated to 40 Amp | 90410 |



## Add-A-Circuit

**NEW  
Item**

|               |       |
|---------------|-------|
| Mini Fuse     | 90515 |
| Standard Fuse | 90516 |



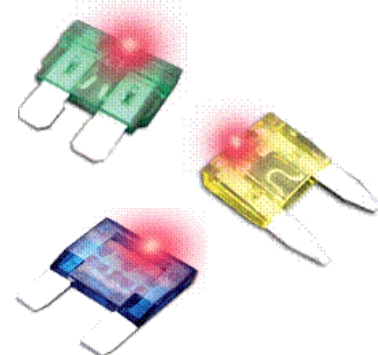
## LED Fuses

### Mini Led Fuse

|     |        | Part Number |
|-----|--------|-------------|
| 2   | Gray   | 65002       |
| 3   | Violet | 65003       |
| 4   | Pink   | 65004       |
| 5   | Tan    | 65005       |
| 7.5 | Brown  | 65007       |
| 10  | Red    | 65010       |
| 15  | Blue   | 65015       |
| 20  | Yellow | 65020       |
| 25  | Clear  | 65025       |
| 30  | Green  | 65030       |

### Standard Led Fuse

|     |        | Part Number |
|-----|--------|-------------|
| 2   | Gray   | 65102       |
| 3   | Violet | 65103       |
| 4   | Pink   | 65104       |
| 5   | Tan    | 65105       |
| 7.5 | Brown  | 65107       |
| 10  | Red    | 65110       |
| 15  | Blue   | 65115       |
| 20  | Yellow | 65120       |
| 25  | Clear  | 65125       |
| 30  | Green  | 65130       |

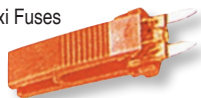


# Clips, Split Loom & Spiral Wrap

## Fuse Puller

| Length | Part Number |
|--------|-------------|
| 1.3"   | 90500       |

For Mini, Standard & Maxi Fuses



| Length | Part Number |
|--------|-------------|
| 2"     | 90600       |

For Mini, Standard, Maxi Fuses & Glass Fuses



| Length | Part Number |
|--------|-------------|
| 4.1"   | 90700       |

For Mini, Standard, Maxi Fuses & Glass Fuses



## Alligator Clip w/ Vinyl Boot

| Length | Max Opening | Color | Part Number |
|--------|-------------|-------|-------------|
| 1 1/4" | 1/4"        | Red   | AC31R       |
| 1 3/8" | 5/16"       | Red   | AC35R       |
| 1 5/8" | 7/16"       | Red   | AC41R       |
| 2"     | 7/16"       | Red   | AC50R       |



| Length | Max Opening | Color | Part Number |
|--------|-------------|-------|-------------|
| 1 1/4" | 1/4"        | Black | AC31B       |
| 1 3/8" | 5/16"       | Black | AC35B       |
| 1 5/8" | 7/16"       | Black | AC41B       |
| 2"     | 7/16"       | Black | AC50B       |

## Charging Clips

| Length  | Max Opening | Color | Part Number |
|---------|-------------|-------|-------------|
| 2 1/16" | 19/32"      | Red   | CC10R       |
| 2 1/2"  | 3/4"        | Red   | CC20R       |
| 2 3/4"  | 7/8"        | Red   | CC30R       |
| 4 1/8"  | 1 1/2"      | Red   | CC50R       |



| Length  | Max Opening | Color | Part Number |
|---------|-------------|-------|-------------|
| 2 1/16" | 19/32"      | Black | CC10B       |
| 2 1/2"  | 3/4"        | Black | CC20B       |
| 2 3/4"  | 7/8"        | Black | CC30B       |
| 4 1/8"  | 1 1/2"      | Black | CC50B       |



## Split Loom

| I.D. Size       | Par Number |
|-----------------|------------|
| 1/4" X 100 ft.  | 56014      |
| 1/4" X 500 ft.  | 56014-5C   |
| 1/4" X 1000 ft. | 56014-1M   |
| 3/8" X 100 ft.  | 56038      |
| 3/8" X 500 ft.  | 56038-5C   |
| 3/8" X 1000 ft. | 56038-1M   |
| 1/2" X 100 ft.  | 56050      |
| 1/2" X 500 ft.  | 56050-5C   |
| 1/2" X 1000 ft. | 56050-1M   |
| 5/8" X 100 ft.  | 56058      |
| 5/8" X 500 ft.  | 56058-5C   |
| 5/8" X 1000 ft. | 56058-1M   |
| 3/4" X 100 ft.  | 56075      |
| 3/4" X 500 ft.  | 56075-5C   |
| 3/4" X 1000 ft. | 56075-1M   |
| 1" X 100 ft.    | 56100      |

- Provides a Neat Appearance
- Insulates and Protects Wire
- Easy Insulation
- Polyethylene
- -40° to +185° F



## Spiral Wrap

| I.D. Size | Part Number |
|-----------|-------------|
| 1/8"      | 57012       |
| 1/4"      | 57025       |
| 3/8"      | 57038       |
| 1/2"      | 57050       |
| 3/4"      | 57075       |
| 1"        | 57100       |

- Insulates and Protects Wire
- Bundle Multiple Wires For A Neat Installation
- Wires Can Be Fed Through The Wrap To Different Locations



## Cutting Tools

| Part Number | Description                  |
|-------------|------------------------------|
| 20774       | Cutting Tool for Loom & Wrap |
| 10774       | Replacement Blade            |



# Accessories

## Accessories

| Part Number | Description   |
|-------------|---|
| 73181       | Solder - 16 oz. spool, 1/8" dia. 40/60 tin/lead     |
| 73183       | Solder Flux - 4 oz. zinc chloride solder paste flux |
| 73185       | Quick Flux - Cleans and prepares surface            |
| 73187       | Dielectric Grease - 5oz. Tube                       |
| 73191       | Brush On Electrical Tape - 4oz. brush top can       |
| 73188       | Dielectric Grease - 2 gram pillow pack              |

## Solder Pellets

Pre-measured solder pellets ensure the right amount of solder for each connection

| Part Number | Wire Size | Color Stripe |
|-------------|-----------|--------------|
| SP-6        | 6 GA      | Grey         |
| SP-4        | 4 GA      | Grey         |
| SP-2        | 2 GA      | Green        |
| SP-1        | 1 GA      | Pink         |
| SP-1-0      | 1/0       | Black        |
| SP-2-0      | 2/0       | Orange       |
| SP-3-0      | 3/0       | Purple       |
| SP-4-0      | 4/0       | Yellow       |



# Miscellaneous Tools

## Wire Stripper

| Wire Size | Length | Lbs. | Part Number |
|-----------|--------|------|-------------|
| 26-10     | 8"     | .66# | 20604       |



## Cable Cutter

| Wire Size | Length | Lbs. | Part Number |
|-----------|--------|------|-------------|
| 20-4/0    | 8"     | .66# | 20605       |



## Cutter/Stripper

| Wire Size | Length | Lbs. | Part Number |
|-----------|--------|------|-------------|
| 24-12     | 5"     | .16# | 20607       |



## QuickStrip Cable Stripper

| Part Number | Features   |
|-------------|--|
| 20706       | <ul style="list-style-type: none"> <li>• Strips up to 4/0 gauge</li> <li>• Includes spare blade</li> <li>• Only 5 1/2" long</li> </ul> |



## Ratchet Controlled

Gives the same results whenever you use them



20591\*  
Non-Insulated 22-8 ga.  
Length 10.8" Lbs. 1#



20592\*  
Insulated 22-14 ga.  
Length 9.7" Lbs. 1.1#



20593\*  
Insulated 12-10 ga.  
Uninsulated 8 ga.  
Length 12.8" 2.02#



20594  
Insulated 22-18 & 16-14  
Flags Part # 20188 & 20189



20595  
Insulated 22-10 Female QDC  
Length 8.875" Lbs. 1.2#



20700  
Insulated 22-10 ga. Female  
Length 9" Lbs. 1.2#



20608Y (yellow)  
20608R (red)  
Insulated 22-10 ga.  
Length 9.5" Lbs. 1.27#



TR-490  
Insulated & Non-Insulated 22-10 ga.  
Nylon, Vinyl, Butted, or Brazed



20704 Insulated Flag 16-10 ga.    20705 Insulated Flag 22-14 ga.    20713 Non-Insulated Flag 22-14 ga.



20709 Closed End Connectors 22-10 ga.

\* UL & CSA listed tools with Hillsdale's Terminals

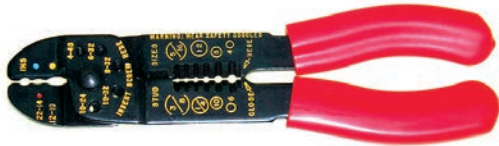
## Hand Crimpers



20600  
Upfront Stripper  
22-10 ga.  
Length 9.25" Lbs. 1.3#



20601  
Upfront Crimper  
22-10 ga.  
Length 8.25" Lbs. .72#



20602  
Snub Nose Crimper  
22-10 ga.  
Length 7.5" Lbs. .66#



20716  
Multi-Function Crimping Tool  
Cuts/Strips/Crimps  
22-10 ga.  
Non and Insulated Terminals, Flag Terminals, Bolts,  
W/ Pliar Tip and Spring Loaded Handle  
Length 8-5/8"



20597  
Crimper  
22-10 ga.  
Length 9" Lbs. .7#



20603  
Econo Crimper  
22-10 ga.  
Length 7.5" Lbs. .66#

## Heat Shrink Torches & Tools



20606  
Mini Torch  
Refillable Lighter  
Electronic Igniter



20590  
Butane Torch  
Interchangeable Tips  
120 min. of operation



20596  
Heat Shrink Insulated  
Ratchet Controlled Crimper  
20-8 ga.  
Length 11" Lbs. 1.2#



20715  
Heat Shrink Butt Connectors  
Ratchet Controlled Crimper  
22-8 ga.  
Length 9" Lbs. 1.2#

## HexCrimp Sr.™

- |             |       |   |
|-------------|-------|---|
| Part Number | 20701 | <ul style="list-style-type: none"><li>• Hand-held 26" overall length</li><li>• Crimps all major brands of connectors</li><li>• 8 GA - 250 mcm</li><li>• Made in USA</li></ul> |
|-------------|-------|---|



## Quick Cutter 2™

- |             |       |   |
|-------------|-------|---|
| Part Number | 20703 | <ul style="list-style-type: none"><li>• Cuts cable up to 250 MCM (6/0GA)</li><li>• 22" handles for easier cutting</li><li>• Blades made of 1075 carbon steel, heat treated for long life can be resharpened</li><li>• Made in USA</li></ul> |
|-------------|-------|---|



## The Crimp Master

- |             |       |  |
|-------------|-------|--|
| Part Number | 20599 | <ul style="list-style-type: none"><li>• 24" Length</li><li>• Crimps 8 - 4/0</li><li>• Triangular crimp</li><li>• Made in USA</li></ul> |
|-------------|-------|--|



## 6-2 Ga. UL Tool

- |             |         |   |
|-------------|---------|---|
| Part Number | 6220CT* | <ul style="list-style-type: none"><li>• 18" Length</li><li>• Crimps 6-2 ga.</li><li>• Uninsulated</li><li>• Made in the USA</li></ul> |
|-------------|---------|---|



## Brute Hammer Crimper

- |             |       |   |
|-------------|-------|---|
| Part Number | 20707 | <ul style="list-style-type: none"><li>• Inexpensive, simple crimping tool</li><li>• Use with hammer or vise</li><li>• Crimps 8 thru 4/0 gauge connectors</li><li>• Spring loaded pin locks in "up" position for loading connector and cable, when released pin holds connector securely during crimping</li></ul> |
|-------------|-------|---|



# Parallel Connectors

## Bare Seamless

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 10647       |
| 16-14     | 10648       |
| 12-10     | 10649       |
| 8         | 10650       |
| 6         | 10651       |
| 4         | 10652       |
| 2         | 10653       |



\*Only one crimp needed to complete splice



## 2 Pc. Nylon

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 20647N      |
| 16-14     | 20648N      |
| 12-10     | 20649N      |
| 8         | 20650N      |



## Vinyl Insulated

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 20647       |
| 16-14     | 20648       |
| 12-10     | 20649       |
| 8         | 20650       |



## Heat Shrink

| Wire Size | Part Number |
|-----------|-------------|
| 22-18     | 40647       |
| 16-14     | 40648       |
| 12-10     | 40649       |
| 8         | 40650       |



# Adapters

## Double Male Single Female Brass

10664



## 3-Way Adapter Brass

10665



## Chair Adapter Brass

10667



## 2-Way Bullet Receptacle

10668



## Insulated Double Male 75°C 300 volts

10670



## Insulated Triple Male 75°C 300 volts max

10671



## ATO Fuse Tap Brass

10672  
10672-mini



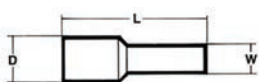
## Glass Fuse Tap Brass

10673



All Adapters have .250 tabs, except the 2-Way Bullet Receptacle which has a .157 Tab

# Ferrule Wire Ends



| Wire Size | Color  | Part Number | Dimensions         |
|-----------|--------|-------------|--------------------|
| 22        | White  | 10822       | .551 x .051 x .122 |
| 20        | Blue   | 10820       | .551 x .061 x .130 |
| 18        | Red    | 10818       | .551 x .061 x .138 |
| 16        | Black  | 10816       | .551 x .083 x .157 |
| 14        | Gray   | 10814       | .551 x .102 x .185 |
| 12        | Orange | 10812       | .669 x .134 x .213 |
| 10        | Green  | 10810       | .787 x .161 x .272 |
| 6         | Blue   | 10806       |                    |

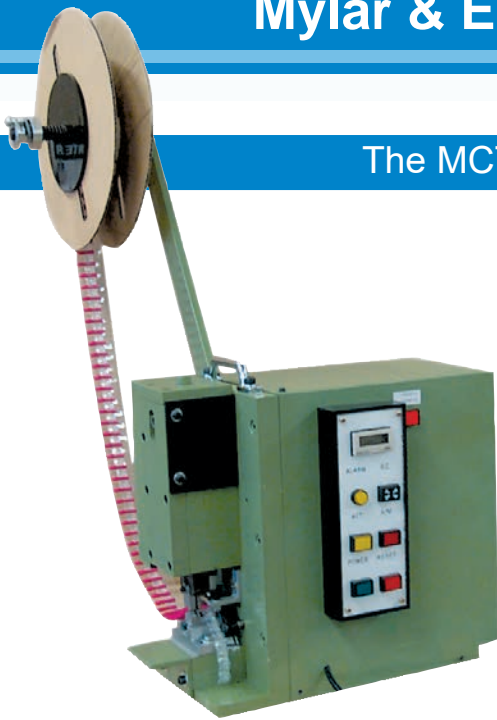
\* Copper Ferrule with nylon insulation



Crimps 22-10  
Part # 20598  
Length 9.3"



## The MCTM-101 and MTCM-102



Our mylar tape fed products are universally spaced and can be applied with the MTCM - 101 and other standard electric applications.

The MCTM - 101 and MCTM - 102 are heavy duty, durable and simple to operate. Powered by 85-100 PSI air pressure and 110 VAC. Fully automatic and foot actuated.

The MCTM - 101 machine comes with three sets of dies. One set for each size: 22-18, 16-14 and 12-10 gauge. Each die crimps bare, vinyl, and heat shrink.

The MCTM - 102 machine comes with two sets of dies. One set for each size: 8 and 6 gauge. Each die crimps bare and vinyl up to 6 gauge.

## Machine Specifications:



- Most rings, spades and butt connectors can be ordered by adding "MT" as a suffix. Call customer service with questions.

Weight 70 Lbs.  
 Air: 1/4" NPT Inlet  
 Stroke Rate: 1000 SPH  
 Foot Pedal: Momentary switch. 5ft. cord  
 Dimensions: 12" Wide - 20" Deep - 17"  
 Height Electrical: 110V 5 ft. grounded standard plug  
 Reel Size: 14" outside dia reel with 3/4" core  
 Built in counter  
 Operates with PLC programmable controller  
 Buzzer to alert operator of machine malfunction  
 Index feature for single or double spaced terminals

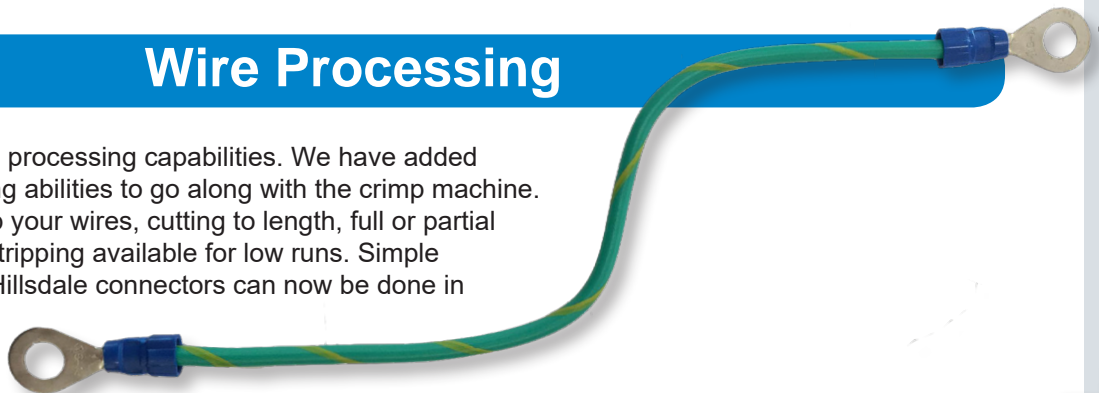
## Vinyl Electrical Tape



| Length    | Description  | Part #  | Length    | Description         | Part #  |
|-----------|--------------|---------|-----------|---------------------|---------|
| 3/4 x 60' | Black 7 mil  | TAPE-BK | 3/4 x 60' | White 7 mil         | TAPE-WH |
| 3/4 x 60' | Blue 7 mil   | TAPE-BL | 3/4 x 60' | Yellow 7 mil        | TAPE-YL |
| 3/4 x 60' | Green 7 mil  | TAPE-GN | 3/4 x 60' | Brown 7 mil         | TAPE-BR |
| 3/4 x 60' | Orange 7 mil | TAPE-OR | 3/4 x 66' | 3M Super 33 7 mil   | TAPE-33 |
| 3/4 x 60' | Red 7 mil    | TAPE-RD | 3/4 x 66' | 3M Super 88 8.5 mil | TAPE-88 |

## Wire Processing

Call about our wire processing capabilities. We have added cutting and stripping abilities to go along with the crimp machine. Let us cut and strip your wires, cutting to length, full or partial strip and window stripping available for low runs. Simple harnesses, using Hillsdale connectors can now be done in house.



# Boxed Kits



**65 PC Heat Shrink Assortment**  
Part # 5990-65 7 x 3.5"

- 10 pcs. - 16-14 & 22-18 Butt Splice
- 5 pcs. - 12-10 Butt Splice
- 5 pcs. - 22-18, 16-14 & 12-10 Ring 10
- 5 pcs. - 22-18, 16-14 & 12-10 Spade 10
- 5 pcs. - 16-14 .250 QDC M/F



**140 PC Heat Shrink Butt Connector Kit**  
Part # 5990-140 8 x 4.5"

- 50 pcs. - 22-18 butt
- 75 pcs. - 16-14 butt
- 15 pcs. - 12-10 butt



**68 PC Heat Shrink Tubing Kit**  
Part # 5990-68 8 x 4.5"

- 20 pcs. - Red 3/16" x 1.5"
- 20 pcs. - Blue 1/4" x 1.5"
- 10 pcs. - Yellow 5/16" x 1.625"
- 10 pcs. - Red 3/8" x 1.875"
- 5 pcs. - Black 3/8" x 2"
- 3 pcs. - Black 1/2" x 3"



**38 PC Heat Shrink Tubing Kit**  
Part # 5990-38 11 x 6.5"

- 10 pcs. - Red 3/16"
- 10 pcs. - Blue 1/4"
- 5 pcs. - Yellow 5/16"
- 5 pcs. - Black 3/8"
- 5 pcs. - Black 1/2"
- 3 pcs. - Black 3/4"



18 x 12"



9 x 13"

**480 PC Assortment Kit**  
Vinyl or Heat Shrink  
Part # 5990-480VP = Vinyl Plastic Kit  
Part # 5990-480VM = Vinyl Metal Kit  
Part # 5990-480HSP = Heat Shrink Plastic Kit  
Part # 5990-480HSM = Heat Shrink Metal Kit

- 20 pcs. - 22-18, 16-14 & 12-10 Butt
- 20 pcs. - 22-18, 16-14 & 12-10 Spades #10
- 20 pcs. - 22-18 Rings #10, 1/4, 5/16 & 3/8
- 20 pcs. - 16-14 Rings #10, 1/4, 5/16 & 3/8
- 20 pcs. - 12-10 Rings #10, 1/4, 5/16 & 3/8
- 20 pcs. - 22-18, 16-14 & 12-10 .250 QDC M/F



**706 PC Heat Shrink Kit w/ Ratchet Tool**  
Part # 5990-706 18.5" x 12"

- 50 pcs. - 22-18 & 16-14 butt
- 30 pcs. - 12-10 butt
- 15 pcs. - 8 ga. butt
- 10 pcs. - Rings 22-18, 16-14, 12-10, Stud Sizes 6, 8, 10, 1/4, 5/16, 3/8
- 15 pcs. - Rings 8 ga., #10, 3/8
- 10 pcs. - Spades 22-18, 16-14, 12-10, Stud Sizes 6, 8, 10
- 25 pcs. - QDC Male & Female .250, 22-18, 16-14, 12-10
- 15 pcs. - 16-14 Male & Female .157
- 10 pcs. - QDC Male & Female .250, Fully Insulated, 22-18, 16-14, 12-10
- 10 pcs. - Step Down butts, 16-14 to 22-18, 12-10 to 16-14
- 1 - Ratchet Tool (Part Number- 20596)
- 4 - Crimp Nest



**190 PC Closed End Connector Kit**  
Part Number: 5990-190

- 20569 - 100 pc.
- 20570 - 60 pc.
- 20571 - 20 pc.
- 20572 - 10 pc.



**76 PC Closed End Connector Kit**  
Part Number: 5990-76

- 20569 - 40 pc.
- 20570 - 20pc.
- 20571 - 10 pc.
- 20572 - 6 pc.



# Boxed Kits



**100 PC Mini Fuse Kit**  
Part # 5990-100 7 x 3.5"

20 pcs. - 10 amp  
10 pcs. - 3, 4, 5, 7.5, 15, 20, 25 & 30 amp



**60 PC Standard Fuse Kit**  
Part # 5990-60 7 x 3.5"

10 pcs. - 25 amp  
5 pcs. - 3, 4, 5, 7.5, 10, 15, 20, 30, 35 and 40 amp



**20 PC Maxi Fuse Kit**  
Part # 5990-20 7 x 3.5"

2 pcs. - 30, 70, 80 & 100 amp  
4 pcs. - 40, 50 & 60 amp



**130 PC Micro Fuse Low Profile Kit**  
Part # 5990-130

10 pcs. - 5 & 7.5 amp  
20 pcs. - 10, 15, 25 & 30 amp  
30 pcs. - 20 amp



**55 PC Instant Tap Connector Kit**  
Part # 5990-55 8 x 4.5"

10 pcs. - 22-18 Red  
25 pcs. - 18-14 Blue  
10 pcs. - 18-14 White  
10 pcs. - 12-10 Yellow



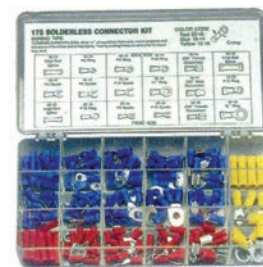
**120 PC Screw On Connector Kit**  
Part # 5990-120 8 x 4.5"

40 pcs. - 22-16 Grey  
30 pcs. - 22-14 Blue  
20 pcs. - 22-14 Orange  
15 pcs. - 18-12 Yellow  
10 pcs. - 18-10 Red  
5 pcs. - 14-8 Grey



**180 PC Solderless Quick Connector Kit**  
Part # 5990-180 11 x 6.5"

10 pcs. ea. of the following:  
22-18 & 16-14 .250 N/I Flag  
22-18 & 16-14 .250 V/I Male  
22-18 & 16-14 .110, .187, .205 & .250 V/I Female  
22-18 & 16-14 .250 Fully Insulated Male & Female  
12-10 .250 V/I Male & Female



**175 PC Assortment**  
Part # 5990-175N = Nylon  
Part # 5990-175V = Vinyl  
11 x 6.5"

4 pcs. - 12-10 Butt Splice  
11 pcs. - 16-14 Butt Splice  
11 pcs. - 22-18 Butt Splice  
4 pcs. - 12-10 Rings #10 & 3/8  
11 pcs. - 16-14 Rings #6, #8 & #10  
9 pcs. - 16-14 Ring 1/4  
11 pcs. - 16-14 Spades #6, #8 & #10  
11 pcs. - 16-14 .250 QDC Male & Female  
11 pcs. - 22-18 Ring #10  
11 pcs. - 22-18 Spades #6 & #10  
11 pcs. - 22-18 .250 QDC Female



**240 PC Terminal Kit with Tool**  
Part # 5990-240N = Nylon  
Part # 5990-240V = Vinyl  
11 x 6.5"

1 pc. - Economy Crimper (Part Number- 20603)  
20 pcs. - 12-10 Butt Splice  
20 pcs. - 16-14 Butt Splice  
20 pcs. - 22-18 Butt Splice  
10 pcs. - 12-10 Rings #8, #10, 5/16 & 3/8  
10 pcs. - 12-10 Spades #6 & #10  
10 pcs. - 16-14 Spades #6 & #10  
10 pcs. - 16-14 Spades #6 & #10  
10 pcs. - 16-14 .250 QDC Male & Female  
10 pcs. - 22-18 Rings #6 & #10  
10 pcs. - 22-18 Spades #6 & #10  
10 pcs. - 22-18 .250 QDC Male & Female



**2400 PC Starter Kit**  
Part # 5990-2400N = Nylon  
Part # 5990-2400V = Vinyl  
Metal Box 18.5 x 12"

100 pcs. - 22-18 Rings, Stud Size #8, 10, 1/4, 5/16  
100 pcs. - 16-14 Rings #10, 1/4, 5/16, 3/8  
100 pcs. - 12-10 Rings #10, 1/4, 5/16, 3/8  
100 pcs. - 22-18, 16-14, 12-10 Butt  
100 pcs. - 22-18, 16-14, 12-10 Spade #10  
100 pcs. - 22-18, 16-14, 12-10 Male 1/4  
100 pcs. - 22-18, 16-14, 12-10 Female 1/4



**170 PC Butt Connector Kit**  
Part # 5990-170 7 x 3.5"

25 pcs. - 12-10 Vinyl & Nylon  
30 pcs. - 16-14 Vinyl & Nylon  
30 pcs. - 22-18 Vinyl & Nylon



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