



**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Wire-Nut® Wire Connectors                                                                                     |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                                                               | 300 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                     | 600 Volt Maximum                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                          |
| <b>71B®</b><br>Strip solid<br>wires ¼"<br>(6,5mm);<br>Strip<br>stranded<br>wires<br>5/16"<br>(8mm)                  | 1 #14<br>1 or 2 #16<br>1 #18 str.<br>2 or 3 #18<br>2 or 4 #20<br>2 #22 str.<br>3 or 4 #22<br>5 #22 sol<br>1 #14 w/1 #20 or #22<br>1 #16 w/1 #18<br>1 #16 w/1 or 2 #20                                                        | 1 #16 w/1 to 3 #22<br>1 #16 w/1 #20 w/1 #18 or #20<br>1 #18 w/1 to 3 #20<br>1 #18 w/1 to 4 #22<br>1 or 2 #18 w/1 #20 w/1 #22<br>2 #18 w/1 #20<br>2 #18 w/1 or 2 #22<br>1 #20 w/1 to 4 #22<br>2 #20 w/1 to 3 #22<br>3 #20 w/1 or 2 #22<br>4 #20 w/1 #22                                                                              |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                          |
| Model                                                                                                               | 300 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                     | 600 Volt Maximum                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                          |
| <b>72B®</b><br>Strip<br>wires #16<br>and<br>smaller<br>½"<br>(13mm);<br>all others<br>3/8"<br>(9,5mm)               | 1 #14 str.<br>1 #16 str.<br>2 or 3 #16<br>1 #18 str.<br>2 to 4 #18<br>2 to 5 #20<br>2 #22<br>1 #14 w/1 #16<br>1 #14 w/1 or 2 #18<br>1 #14 w/1 to 3 #20<br>1 #14 w/1 to 4 #22<br>1 #16 w/1 to 3 #18<br>1 #16 w/1 #18 w/1 #20  | 1 #16 w/1 to 4 #20 or #22<br>1 #16 w/1 #22 w/1 #18 or #20<br>2 #16 w/1 #18<br>2 #16 w/1 or 2 #20<br>2 #16 w/1 #20 w/1 #22<br>2 #16 w/1 to 3 #22<br>1 #18 w/1 to 4 #20 or #22<br>1 or 2 #18 w/1 #20 w/1 #22 2<br>#18 w/1 to 3 #20 or #22<br>3 #18 w/1 or 2 #20 or #22<br>4 #18 w/1 #20 or #22<br>3 #20 w/1 or 2 #22<br>4 #20 w/1 #22 |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                          |
| Model                                                                                                               | 300 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                     | 600 Volt Maximum                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                          |
| <b>73B®</b><br>Strip<br>wires #16<br>and<br>smaller<br>Stranded<br>3/8"<br>(9,5mm);<br>all others<br>5/16"<br>(8mm) | 3 or 4 #16<br>5 #18<br>3 to 5 #20<br>5 #22<br>1 #14 w/2 #16<br>1 #14 w/1 #16 w/1 #18<br>1 #14 w/3 #18<br>1 #14 w/4 #20<br>2 #14 w/1 #18<br>2 #14 w/1 to 3 #20 or #22<br>1 #16 w/4 #18<br>2 #16 w/2 or 3 #18<br>2 #16 w/3 #20 | 3 #16 w/1 #18<br>3 #16 w/1 or 2 #20 or #22<br>4 #16 w/1 #20 or #22<br>1 #18 w/1 #20<br>1 #18 str. w/5 #22 str.<br>2 #18 w/3 #22<br>3 #18 w/2 #20 or #22<br>4 #18 w/1 #20 or #22<br>1 #20 w/4 #22<br>2 #20 w/2 or 3 #22<br>3 #20 w/1 or 2 #22<br>4 #20 w/1 #22                                                                       | 1 or 2 #14<br>1 #16 str.<br>2 #16<br>1 #18 str.<br>2 or 4 #18<br>1 #14 w/1 or 2 #18<br>1 #14 w/1 to 3 #20<br>1 #14 w/1 to 3 #22<br>1 #14 w/1 #16 w/1 #18<br>1 #14 w/1 #16<br>1 #16 w/1 or 2 #18<br>1 #16 w/1 to 3 #20 or #22<br>2 #16 w/1 or 2 #20 | 2 #16 w/1 to 3 #22<br>2 #16 w/1 #18<br>1 or 2 #16 w/1 #20 w/1 #22<br>1 #16 w/1 #18 w/1 #22<br>1 #18 w/2 to 4 #20<br>1 #18 w/3 or 4 #22<br>1 or 2 #18 w/1 #20 w/1 #22<br>2 #18 w/1 or 2 #20<br>2 #18 w/1 to 3 #22<br>3 #18 w/1 #20 or #22 |



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| IDEAL Wire-Nut® Wire Connectors                                                                   |                  |  |                                |                                   |
|---------------------------------------------------------------------------------------------------|------------------|--|--------------------------------|-----------------------------------|
| Model                                                                                             | 300 Volt Maximum |  | 600 Volt Maximum               |                                   |
| <b>74B®</b><br>Strip #16<br>and<br>smaller<br>7/16"<br>(11,5mm);<br>all others<br>3/8"<br>(9,5mm) | 1 #10 w/2 #12    |  | 1 #8                           | 1 #14 w/1 #18 w/1 to 3 #20        |
|                                                                                                   |                  |  | 1 #10                          | 2 #14 w/1 to 3 #16, #18 or #20    |
|                                                                                                   |                  |  | 1 to 3 #12                     | 2 #14 w/1 #16 w/1 or 2 #18 or #20 |
|                                                                                                   |                  |  | 1 to 4 #14                     | 2 #14 w/1 #16 w/1 to 3 #22        |
|                                                                                                   |                  |  | 2 to 5 #16                     | 3 #14 w/1 #16 w/1 #18, #20 or #22 |
|                                                                                                   |                  |  | 2 to 5 #18                     | 3 #14 w/1 #18 w/1 #20 or #22      |
|                                                                                                   |                  |  | 3 to 6 #20                     | 3 #14 w/1 or 2 #16                |
|                                                                                                   |                  |  | 1 #10 w/1 #12                  | 3 #14 w/1 or 2 #18 or #20         |
|                                                                                                   |                  |  | 1 #10 w/1 or 2 #14, #16 or #18 | 4 #14 w/1 #16 or #18              |
|                                                                                                   |                  |  | 1 #10 w/3 or 4 #16 or #18      | 1 #16 w/1 #18 w/2 or 3 #20 or #22 |
|                                                                                                   |                  |  | 1 #10 w/1 #12 w/1 #14 or #16   | 1 #16 w/1 #18 w/3 or 4 #22        |
|                                                                                                   |                  |  | 1 #10 w/1 #12 w/1 or 2 #18     | 1 #16 w/2 #20 w/2 #22             |
|                                                                                                   |                  |  | 1 #10 w/1 #14 w/2 #16          | 1 #16 w/1 to 4 #18, #20 or #22    |
|                                                                                                   |                  |  | 1 #10 w/1 #14 w/1 to 3 #18     | 2 #16 w/1 to 3 #18, #20 or #22    |
|                                                                                                   |                  |  | 1 #10 w/2 #14 w/1 #16          | 2 #16 w/1 #18 w/1 or 2 #20 or #22 |
|                                                                                                   |                  |  | 1 #10 w/1 #16 w/1 or 2 #18     | 3 #16 w/1 or 2 #18, #20 or #22    |
|                                                                                                   |                  |  | 1 #12 w/1 to 3 #14, #16 or #18 | 3 #16 w/1 #18 w/1 #20 or #22      |
|                                                                                                   |                  |  | 1 #12 w/4 #16 or #18           | 4 #16 w/1 or 2 #18, #20 or #22    |
|                                                                                                   |                  |  | 1 #12 w/1 #14 w/3 #16          | 1 #18 w/3 or 4 #20 or #22         |
|                                                                                                   |                  |  | 1 #12 w/2 #14 w/2 #16          | 1 #18 w/2 #20 w/3 #22             |
|                                                                                                   |                  |  | 2 #12 w/1 or 2 #14             | 2 #18 w/3 #20 or #22              |
|                                                                                                   |                  |  | 2 #12 w/1 or 2 #16 or #18      | 2 #18 w/1 #20 w/3 #22             |
|                                                                                                   |                  |  | 2 #12 w/1 #14 w/1 #16 or #18   |                                   |
|                                                                                                   |                  |  | 2 #12 w/1 #16 w/1 or 2 #18     |                                   |
|                                                                                                   |                  |  | 1 #14 w/1 to 4 #16, #18 or #20 |                                   |
|                                                                                                   |                  |  | 1 #14 w/1 #16 w/1 to 3 #20     |                                   |



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UL File No. E5238

Page 3

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| IDEAL Wire-Nut® Wire Connectors                                                                    |                                     |  |                                             |                                     |
|----------------------------------------------------------------------------------------------------|-------------------------------------|--|---------------------------------------------|-------------------------------------|
| Model                                                                                              | 300 Volt Maximum                    |  | 600 Volt Maximum                            |                                     |
| 76B®<br>Strip<br>wires #16<br>and<br>smaller<br>1/2"<br>(13mm);<br>all others<br>7/16"<br>(11,5mm) | 2 #8 str.                           |  | 1 #6 or #8                                  | 2 #12 w/1 or 2 #16 or #18           |
|                                                                                                    | 3 #10                               |  | 1 or 2 #10                                  | 2 #12 w/1 or 2 #20 w/1 or 2 #22     |
|                                                                                                    | 5 #12                               |  | 1 to 4 #12                                  | 2 #12 w/1 #18 w/1 to 3 #20 or #22   |
|                                                                                                    | 1 #6 w/1 or 2 #16                   |  | 2 to 5 #14                                  | 2 #12 w/1 #16 w/1 to 3 #20 or #22   |
|                                                                                                    | 1 #6 w/1 #14                        |  | 4 to 6 #16                                  | 2 #12 w/1 #16 w/1 to 3 #18          |
|                                                                                                    | 1 #6 w/1 #12                        |  | 1 #8 w/1 to 3 #16                           | 2 #12 w/1 #14 w/1 to 3 #18 or #16   |
|                                                                                                    | 1 #6 w/1 #14 w/1 to 4 #22           |  | 1 #8 w/1 or 2 #14                           | 3 #12 w/1 #18 w/1 or 2 #22 or #20   |
|                                                                                                    | 1 #6 w/1 #14 w/1 or 2 #18           |  | 1 #8 w/1 #12                                | 3 #12 w/1 #16 w/1 or 2 #22 or #20   |
|                                                                                                    | 1 #6 w/1 #14 w/1 #16                |  | 1 #8 w/1 #14 w/1 to 4 #20                   | 3 #12 w/1 #16 w/1 or 2 #18          |
|                                                                                                    | 1 #8 w/4 #16                        |  | 1 #8 w/1 to 4 #18, #20 or #22               | 3 #12 w/1 #14                       |
|                                                                                                    | 1 #8 w/3 #14                        |  | 1 #8 w/1 #14 w/1 or 2 #16                   | 3 #12 w/1 #14 w/1 #20               |
|                                                                                                    | 1 #8 w/2 #12                        |  | 1 #8 w/1 #12 w/1 #16 or #18                 | 3 #12 w/1 #14 w/1 or 2 #22          |
|                                                                                                    | 1 #8 w/1 #10                        |  | 1 #10 w/1 to 4 #16, #18, #20 or #22         | 3 #12 w/1 #14 w/1 #18               |
|                                                                                                    | 1 #8 w/1 #14 w/4 #18                |  | #22                                         | 3 #12 w/1 or 2 #20 or #22           |
|                                                                                                    | 1 #8 w/1 #14 w/3 or 4 #16           |  | 1 #10 w/5 #16                               | 3 #12 w/1 to 3 #18                  |
|                                                                                                    | 1 #8 w/1 #12 w/1 to 4 #16 or #18    |  | 1 #10 w/1 to 3 #14                          | 3 #12 w/1 or 2 #16                  |
|                                                                                                    | 1 #8 w/1 #12 w/1 or 2 #14           |  | 1 #10 w/1 or 2 #12                          | 3 #12 w/1 #20 w/1 or 2 #22          |
|                                                                                                    | 1 #8 w/2 #12 w/1 or 2 #18           |  | 1 #10 w/1 or 2 #20 w/1 to 3 #22             | 3 #12 w/2 #20 w/1 #22               |
|                                                                                                    | 1 #8 w/2 #12 w/1 #14 or #16         |  | 1 #10 w/1 #18 w/1 to 4 #20 or #22           | 1 #14 w/3 or 4 #18                  |
|                                                                                                    | 1 #8 w/1 #10 w/1 #12 or #14         |  | 1 #10 w/1 #16 w/1 to 4 #20 or #22           | 1 #14 w/1 #20 w/3 or 4 #22          |
|                                                                                                    | 1 #10 w/4 #14                       |  | 1 #10 w/1 #16 w/1 to 4 #18                  | 1 #14 w/1 #18 w/4 #22               |
|                                                                                                    | 1 #10 w/3 #12                       |  | 1 #10 w/1 #14 w/1 to 4 #18, #20 or #22      | 1 #14 w/1 #18 w/3 or 4 #20          |
|                                                                                                    | 1 #10 w/2 #14 w/3 #16               |  | or #22                                      | 1 #14 w/1 #16 w/2 or 4 #20          |
|                                                                                                    | 1 #10 w/1 #12 w/4 #16               |  | 1 #10 w/1 #14 w/1 to 4 #16                  | 1 or 2 #14 w/1 #16 w/1 to 3 #18     |
|                                                                                                    | 1 #10 w/1 #12 w/3 or 4 #14          |  | 1 #10 w/2 #14 w/1 or 2 #16                  | 2 #14 w/2 or 4 #16                  |
|                                                                                                    | 1 #10 w/2 #12 w/2 or 3 #16 or #18   |  | 1 #10 w/1 #12 w/1 to 4 #18                  | 2 #14 w/1 or 2 #20 w/1 or 2 #22     |
|                                                                                                    | 1 #10 w/2 #12 w/1 or 2 #14          |  | 1 #10 w/1 #12 w/1 to 3 #16                  | 2 #14 w/1 #18 w/1 to 3 #20 or #22   |
|                                                                                                    | 2 #10 w/3 #16                       |  | 1 #10 w/1 #12 w/1 or 2 #14                  | 2 #14 w/1 #16 w/1 to 3 #20 or #22   |
|                                                                                                    | 2 #10 w/2 or 3 #14                  |  | 1 #10 w/2 #12 w/1 #16 or #18                | 3 #14 w/1 or 2 #16, #18, #20 or #22 |
|                                                                                                    | 2 #10 w/1 or 2 #12                  |  | 2 #10 w/1 to 3 #18                          | #22                                 |
|                                                                                                    | 2 #10 w/1 #16 w/2 or 3 #18          |  | 2 #10 w/2 #16                               | 3 #14 w/1 #16 w/1 or 2 #18          |
|                                                                                                    | 2 #10 w/1 #14 w/2 or 3 #20 or #22   |  | 2 #10 w/1 #14                               | 3 #14 w/1 #18 w/1 or 2 #20 or #22   |
|                                                                                                    | 2 #10 w/1 #14 w/1 to 3 #18          |  | 2 #10 w/1 #16 w/1 #18                       | 4 #14 w/1 #18, #20 or #22           |
|                                                                                                    | 2 #10 w/2 #14 w/1 #16               |  | 2 #10 w/1 #14 w/1 #20 or #22                | 4 #14 w/2 #18                       |
|                                                                                                    | 2 #10 w/1 #12 w/1 to 3 #18          |  | 1 #12 w/3 or 4 #22                          | 4 #14 w/1 #16                       |
|                                                                                                    | 2 #10 w/1 #12 w/1 or 2 #16          |  | 1 #12 w/2 to 4 #18 or #20                   | 5 #14 w/1 #18                       |
|                                                                                                    | 3 #10 w/1 #16 or #18                |  | 1 #12 w/1 to 4 #14 or #16                   | 1 #16 w/4 #18                       |
|                                                                                                    | 2 #12 w/1 #14 w/3 #16               |  | 1 #12 w/1 #20 w/2 to 4 #22                  | 2 #16 w/3 #20                       |
|                                                                                                    | 2 #12 w/2 #14 w/2 #16               |  | 1 #12 w/2 #20 w/1 to 3 #22                  | 2 #16 w/3 or 4 #18                  |
|                                                                                                    | 3 #12 w/2 #14                       |  | 1 #12 w/ #18 w/1 to 4 #20 or #22            | 2 #16 w/1 #20 w/3 #22               |
|                                                                                                    | 3 #12 w/3 #16                       |  | 1 #12 w/1 #16 w/1 to 4 #20 or #22           | 2 #16 w/2 #20 w/2 #22               |
|                                                                                                    | 3 #12 w/1 #16 w/2 #18               |  | 1 #12 w/1 #16 w/1 to 4 #18                  | 2 #16 w/1 #18 w/3 #22               |
|                                                                                                    | 3 #12 w/1 #14 w/1 or 2 #16          |  | 1 #12 w/1 #14 w/1 to 4 #16, #18, #20 or #22 | 2 #16 w/1 #18 w/2 or 3 #20          |
|                                                                                                    | 3 #12 w/2 #14 w/1 #16               |  | 1 #12 w/2 #14 w/1 to 3 #16                  | 3 #16 w/1 or 2 #18, #20 or #22      |
|                                                                                                    | 4 #12 w/1 #14, #16, #18, #20 or #22 |  | 2 #12 w/2 #14 w/1 #16                       | 3 #16 w/1 or 2 #20 w/1 #22          |
|                                                                                                    |                                     |  | 2 #12 w/1 to 3 #14                          | 3 #16 w/1 #18 w/1 or 2 #20 or #22   |
|                                                                                                    |                                     |  | 2 #12 w/1 #14 w/1 to 3 #20 or #22           | 4 #16 w/1 or 2 #22                  |
|                                                                                                    |                                     |  | 2 #12 w/1 to 3 #20 or #22                   | 4 #16 w/1 #18 or #20                |
|                                                                                                    |                                     |  |                                             | 4 or 5 #16 w/1 #22                  |

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| IDEAL Wire-Nut® Connectors             |                                   |                                       |                                |                                |
|----------------------------------------|-----------------------------------|---------------------------------------|--------------------------------|--------------------------------|
| Model                                  | 600 Volt Maximum                  |                                       |                                |                                |
| 59B®<br>Strip wires<br>1/2"<br>(13mm)  | 1 #12                             | 1 #14 w/1 #18 w/1 or 2 #22            | 2 #16 w/1 to 4 #18, #20 or #22 | 2 #18 w/1 to 4 #20 or #22      |
|                                        | 1 to 3 #14                        | 1 #14 w/1 #16 w/1 #20 or #22          | 2 #16 w/1 #20 w/1 or 2 #22 2   | 2 #18 w/1 #20 w/1 or 2 #22     |
|                                        | 2 to 4 #16                        | 2 #14 w/1 to 4 #20 or #22             | #16 w/1 #18 w/1 or 2 #22 3     | 3 #18 w/1 to 3 #20 or #22      |
|                                        | 2 to 6 #18                        | 2 #14 w/1 or 2 #18                    | #16 w/1 to 3 #20 or #22        | 3 #18 w/1 #20 w/1 or 2 #22     |
|                                        | 2 to 6 #20                        | 2 #14 w/1 #16                         | 3 #16 w/1 or 2 #18             | 4 #18 w/1 or 2 #22 or #20      |
|                                        | 4 to 6 #22                        | 2 #14 w/1 #20 w/1 or 2 #22            | 3 #16 w/1 #20 w/1 or 2 #22     | 4 #18 w/1 #20                  |
|                                        | 1 #12 w/1 to 3 #18                | 2 #14 w/1 #18 w/1 or 2 #22            | 3 #16 w/1 #18 w/1 or 2 #22     | 5 #18 w/1 #20 w/1 #22          |
|                                        | 1 #12 w/1 or 2 #16                | 2 #14 w/1 #16 w/1 #20 or #22          | 4 #16 w/1 or 2 #22             | 1 #20 w/2 to 5 #22             |
|                                        | 1 #12 w/1 #14                     | 1 #16 Stranded OR 1 #18 Str. 1        | 4 #16 w/1 #18 or #20           | 2 #20 w/1 to 4 #22             |
|                                        | 1 #14 w/1 to 5 #18, #20 or #22    | #16 w/1 to 5 #18, #20 or #22 1        | 4 #16 w/1 #20 w/1 #22          | 3 #20 w/1 to 3 #22             |
|                                        | 1 #14 w/1 to 3 #16                | #16 w/1 #20 w/1 or 2 #22 1            | 1 #18 w/1 to 4 #20 or #22      | 4 #20 w/1 or 2 #22             |
|                                        | 1 #14 w/1 #20 w/1 or 2 #22        | #16 w/1 #18 w/1 or 2 #22              | 1 #18 w/1 #20 w/1 or 2 #22     | 5 #20 w/1 #22                  |
| IDEAL Wing-Nut® Wire Connectors        |                                   |                                       |                                |                                |
| Model                                  | 600 Volt Maximum                  |                                       |                                |                                |
| 451®<br>Strip wires<br>3/8"<br>(9,5mm) | 1 #10                             | 1 #10 w/1 or 2 #16                    | 2 #12 w/1 #14                  | 1 #16 w/1 to 5 #18             |
|                                        | 1 to 3 #12                        | 1 #10 w/1 to 3 #18                    | 1 #14 w/1 to 5 #18             | 2 #16 w/1 to 4 #18             |
|                                        | 1 to 3 #14                        | 1 #12 w/1 to 5 #18                    | 1 #14 w/1 to 4 #16             | 3 #16 w/1 to 3 #18             |
|                                        | 2 to 4 #16                        | 1 #12 w/1 to 3 #16                    | 2 #14 w/1 to 3 #18             | 4 #16 w/1 or 2 #18             |
|                                        | 2 to 4 #18                        | 1 #12 w/1 or 2 #14                    | 2 #14 w/1 to 3 #16             |                                |
|                                        | 1 #10 w/1 #12                     | 2 #12 w/1 or 2 #18                    | 3 #14 w/1 #16                  |                                |
|                                        | 1 #10 w/1 or 2 #14                | 2 #12 w/1 #16                         | 3 #14 w/1 or 2 #18             |                                |
| Model                                  | 600 Volt Maximum                  |                                       |                                |                                |
| 452®<br>Strip wires<br>1/2"<br>(13mm)  | 1 #6                              | 1 #10 w/2 #12 w/1 to 3 #16            | 2 #12 w/1 to 4 #18, #16 or #14 | 2 #16 w/1 #18 w/1 to 3 #22     |
|                                        | 1 or 2 #8                         | 1 #10 w/2 #12 w/1 to 3 #18            | 3 #12 w/1 to 3 #18, #16 or #14 | 2 #16 w/1 #18 w/1 to 3 #20     |
|                                        | 1 to 4 #10                        | 1 #10 w/2 #12 w/1 or 2 #14            | 3 #12 w/1 #16 w/1 or 2 #18     | 2 #16 w/1 to 4 #22, #20 or #18 |
|                                        | 1 to 5 #12                        | 1 #10 w/3 #12 w/1 #14                 | 3 #12 w/1 #14 w/1 or 2 #18     | 3 #16 w/1 to 3 #22, #20 or #18 |
|                                        | 1 to 6 #14, #16                   | 2 #10 w/1 to 4 #18 or #16             | 3 #12 w/1 #14 w/1 or 2 #16     | 3 #16 w/1 or 2 #22 w/ 1 #20    |
|                                        | 2 to 6 #18                        | 2 #10 w/1 to 3 #14 or #12             | 3 #12 w/2 #14 w/1 #16          | 3 #16 w/1 #18 w/1 or 2 #22     |
|                                        | 3 to 6 #20                        | 2 #10 w/1 #16 w/1 to 3 #18            | 4 #12 w/1 or 2 #16             | 3 #16 w/1 #18 w/1 or 2 #20     |
|                                        | 4 to 6 #22                        | 2 #10 w/2 #14 w/1 or 2 #16            | 4 #12 w/1 #14                  | 4 #16 w/1 or 2 #22, #20 or #18 |
|                                        | 1 #6 w/1 or 2 #12                 | 2 #10 w/1 #12 w/1 to 3 #16            | 4 #12 w/1 #16 w/1 #18          | 4 #16 w/1 #22 w/1 #20          |
|                                        | 1 #6 w/1 #10                      | 2 #10 w/1 #12 w/1 or 2 #14            | 4 #12 w/1 #14 w/1 #18 or #16   | 4 #16 w/1 #18 w/1 #22          |
|                                        | 1 #6 w/2 #14 w/1 or 2 #16         | 2 #10 w/2 #12 w/1 or 2 #18            | 1 #14 w/1 to 5 #22 or #20      | 4 #16 w/1 #18 w/1 #20          |
|                                        | 1 #6 w/1 #12 w/1 or 2 #14         | 2 #10 w/2 #12 w/1 or 2 #16            | 1 #14 w/1 to 5 #18 or #16      | 5 #16 w/1 #22, #20 or #18      |
|                                        | 1 #6 w/2 #12 w/1 #18              | 2 #10 w/2 #12 w/1 #14                 | 1 #14 w/1 #16 w/1 to 3 #18     | 1 #18 w/1 to 5 #22 or #20      |
|                                        | 1 #6 w/1 #10 w/1 #14              | 3 #10 w/1 to 3 #18 3 #10 w/1 to 3 #16 | 2 #14 w/1 #16 w/1 to 3 #18     | 1 #20 w/1 #22 w/1 to 3 #18     |
|                                        | 1 #8 w/1 to 5 #16                 | 3 #10 w/1 or 2 #14                    | 2 #14 w/1 to 4 #22 or #20      | 1 #20 w/2 #22 w/1 to 3 #18     |
|                                        | 1 #8 w/1 to 4 #14                 | 3 #10 w/1 #12                         | 2 #14 w/1 to 4 #18 or #16      | 2 #20 w/1 #22 w/1 to 3 #18     |
|                                        | 1 #8 w/1 to 3 #12                 | 3 #10 w/1 #16 w/1 or 2 #18            | 3 #14 w/1 to 3 #22 or #20      | 2 #18 w/1 to 4 #22, #20        |
|                                        | 1 #8 w/2 #12 w/1 or 2 #14         | 3 #10 w/1 #14 w/1 or 2 #18            | 3 #14 w/1 to 3 #18 or #16      | 3 #18 w/1 to 3 #22 or #20      |
|                                        | 1 #8 w/1 or 2 #10                 | 3 #10 w/1 #14 w/1 #16                 | 3 #14 w/1 #16 w/1 or 2 #18     | 4 #18 w/1 or 2 #22 or #20      |
|                                        | 1 #8 w/1 #10 w/1 or 2 #14, #12    | 3 #10 w/1 #12 w/1 #18                 | 4 #14 w/1 or 2 #22             | 5 #18 w/1 #22 or #20           |
|                                        | 1 #8 w/2 #10 w/1 #14              | 3 #10 w/1 #12 w/1 #16                 | 4 #14 w/1 or 2 #20, #18 or #16 | 1 #20 w/2 to 5 #22             |
|                                        | 1 #10 w/1 to 5 #18, #16 or #14    | 1 #12 w/1 to 5 #18, #16 or #14        | 4 #14 w/1 #16 w/1 #18          | 2 #20 w/1 to 4 #22             |
|                                        | 1 #10 w/1 to 4 #12                | 1 #12 w/1 #16 w/1 to 3 #18            | 5 #14 w/1 #18 or #16           | 3 #20 w/1 to 3 #22             |
|                                        | 1 #10 w/1 #16 w/1 to 4 #18        | 1 #12 w/1 #14 w/1 to 3 #18            | 1 #16 w/1 to 5 #22, #20 or #18 | 4 #20 w/1 or 2 #22             |
|                                        | 1 #10 w/1 #14 w/1 to 4 #16 or #18 | 1 or 2 #12 w/1 #14 w/1 to 3 #16       | 1 #16 w/1 #20 w/1 or 2 #22     | 5 #20 w/1 #22                  |
|                                        | 1 #10 w/2 #14 w/1 to 3 #16        | 1 #12 w/2 #14 w/1 or 2 #16            | 1 #16 w/2 #20 w/1 or 2 #22     |                                |
|                                        | 1 #10 w/1 #12 w/1 to 4 #14        | 2 #12 w/1 #14 w/1 to 3 #18            | 1 #16 w/1 #18 w/1 to 3 #20     |                                |
|                                        | 1 #10 w/1 #12 w/1 to 4 #16 or #18 | 2 #12 w/1 #16 w/1 to 3 #18            | 2 #16 w/1 #20 w/1 or 2 #22 2   |                                |
|                                        |                                   | 2 #12 w/2 #14 w/1 or 2 #16            | #16 w/2 #20 w/1 or 2 #22       |                                |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Wing-Nut® Wire Connectors          |                              |                                |                                |                                      |
|------------------------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------------|
| Model                                    | 600 Volt Maximum             |                                |                                |                                      |
| <b>454®</b><br>Strip wires<br>7/8"       | 1 or 2 #6                    | 2 #6 w/1 #14 or #12            | 1 #8 w/1 #12 w/1 to 4 #14      | 1 #10 w/1 #12 w/1 to 4 #14           |
|                                          | 2 or 3 #8                    | 1 #6 w/1 #12 w/1 to 4 #14      | 1 #8 w/2 #12 w/1 to 3 #14      | 1 #10 w/2 #12 w/1 to 3 #14           |
|                                          | 2 to 5 #10                   | 1 #6 w/2 #12 w/1 to 3 #14      | 1 #8 w/3 #12 w/1 or 2 #14      | 1 #10 w/3 #12 w/1 or 2 #14           |
|                                          | 3 to 6 #12                   | 1 #6 w/3 #12 w/1 or 2 #14      | 1 #8 w/4 #12 w/1 #14           | 1 #10 w/4 #12 w/1 #14                |
|                                          | 5 or 6 #14                   | 1 #6 w/4 #12 w/1 #14           | 1 #8 w/1 #10 w/1 to 4 #14      | 1 #10 w/2 to 4 #12                   |
|                                          | 1 #8 w/1 to 5 #14 or #12     | 1 #6 w/1 #10 w/1 to 4 #14      | 1 #8 w/1 #10 w/1 to 4 #12      | 2 #10 w/1 #12 w/1 to 3 #14           |
|                                          | 1 #8 w/1 to 4 #10            | 1 #6 w/1 #10 w/1 to 3 #12      | 1 #8 w/2 #10 w/1 to 3 #14      | 2 #10 w/2 #12 w/1 or 2 #14           |
|                                          | 1 #10 w/3 to 5 #14           | 1 #6 w/2 #10 w/1 or 2 #14      | 1 #8 w/2 #10 w/1 to 3 #12      | 2 #10 w/3 #12 w/1 #14                |
|                                          | 1 #12 w/4 or 5 #14           | 1 #6 w/2 #10 w/1 #12           | 1 #8 w/3 #10 w/1 or 2 #14      | 2 #10 w/1 to 4 #14 or #12            |
|                                          | 2 #12 w/2 to 4 #14           | 1 #6 w/1 #8 w/1 to 3 #14       | 1 #8 w/3 #10 w/1 #12           | 3 #10 w/1 #12 w/1 or 2 #14           |
|                                          | 3 #12 w/1 to 3 #14           | 1 #6 w/1 #8 w/1 or 2 #12       | 2 #8 w/1 #12 w/1 to 3 #14      | 3 #10 w/2 #12 w/1 #14                |
|                                          | 4 #12 w/1 #14                | 1 #6 w/1 #8 w/1 #10            | 2 #8 w/2 #12 w/1 or 2 #14      | 3 #10 w/1 to 3 #14                   |
|                                          | 1 #6 w/1 to 4 #14            | 2 #8 w/1 to 4 #14              | 2 #8 w/3 #12 w/1 #14           | 3 #10 w/1 to 3 #12                   |
|                                          | 1 #6 w/1 to 5 #12            | 2 #8 w/1 to 3 #12              | 2 #8 w/1 #10 w/1 to 3 #14      | 4 #10 w/1 #14 w/1 #12                |
|                                          | 1 #6 w/1 to 3 #10            | 2 #8 w/1 or 2 #10              | 2 #8 w/1 #10 w/1 or 2 #12      |                                      |
|                                          | 1 #6 w/1 or 2 #8             | 3 #8 w/1 or 2 #14              | 2 #8 w/2 #10 w/1 #14 sol       |                                      |
| IDEAL Greenie® Grounding Wire Connectors |                              |                                |                                |                                      |
| Model                                    | 600 Volt Maximum             |                                |                                |                                      |
| <b>92®</b><br>Strip wires<br>1"          | 2 to 4 #12                   | 1 or 2 #12 w/1 to 3 #14        |                                |                                      |
|                                          | 2 to 4 #14                   | 3 #12 w/1 #14                  |                                |                                      |
|                                          | 1 #10 w/1 or 2 #12           |                                |                                |                                      |
|                                          | 1 #10 w/1 to 3 #14           |                                |                                |                                      |
| IDEAL Twister® Wire Connectors           |                              |                                |                                |                                      |
| Model                                    | 600 Volt Maximum             |                                |                                |                                      |
| <b>341®</b><br>Strip wires<br>½"         | 1 to 3 #10                   | 3 #14 w/2 #12                  | 3 #18 w/1 or 2 #10             | 1 #22 w/1 #18 w/1 #16                |
|                                          | 1 to 3 #12                   | 4 #14 w/1 #12 or #10           | 4 #18 w/1 or 2 #16, #14 or #12 | 1 #22 w/1 #20 w/1 or 2 #16 1 #14     |
|                                          | 4 #12 sol                    | 1 #16 w/1 to 4 #14 or #12      | 4 #18 w/1 #10                  | 1 #12 w/1 or 2 #12 w/1 #10 2 #14 w/1 |
|                                          | 1 to 5 #14                   | 1 #16 w/1 or 2 #10             | 5 #18 w/1 #16 or #14           | #12 w/1 #10                          |
|                                          | 1 #16 str.                   | 2 #16 w/1 to 4 #14             | 1 #20 w/1 to 4 #18, #16 or #14 | 1 #16 w/1 #12 w/1 #10                |
|                                          | 2 to 6 #16                   | 2 #16 w/1 to 3 #12             | 2 #20 w/1 to 3 #18, #16 or #14 | 2 #16 w/1 #14 w/1 or 2 #12 2 #16     |
|                                          | 2 to 6 #18                   | 2 #16 w/1 or 2 #10             | 3 #20 w/1 or 2 #18, #16 or #14 | w/2 #14 w/1 #12                      |
|                                          | 2 or 6 #20                   | 3 #16 w/1 to 3 #14             | 4 #20 w/1 or 2 #18, #16 or #14 | 2 #16 w/1 #12 w/1 #10                |
|                                          | 1 #10 w/1 #8                 | 3 #16 w/1 or 2 #12 or #10      | 3 to 6 #22                     | 3 #16 w/1 #14 w/1 #12 or #10 4       |
|                                          | 1 #12 w/1 or 2 #10           | 4 #16 w/1 or 2 #14 or #12      | 1 #22 sol w/1 #20 sol          | #16 w/1 #12 w/1 #10                  |
|                                          | 1 #12 w/1 #8                 | 4 #16 w/1 #10                  | 1 #22 w/2 to 5 #20             | 1 #18 w/1 to 4 #16, #14 or #12 5     |
|                                          | 2 #12 w/1 #10                | 5 #16 w/1 #14                  | 1 #22 w/1 to 5 #18 or #16      | #16 sol w/1 #10 sol                  |
|                                          | 1 #14 str. w/1 or 2 #12 str. | 2 #18 w/1 to 4 #16 or #14      | 2 #22 w/1 to 4 #20, #18 or #16 | 1 #16 w/1 or 2 #14 w/1 #12 or        |
|                                          | 1 #14 sol w/1 to 3 #12       | 3 #18 w/1 to 3 #12             | 3 #22 w/1 to 3 #20, #18 or #16 | #10                                  |
|                                          | 1 #14 w/1 or 2 #10           | 2 #18 w/1 or 2 #10             | 4 #22 w/1 or 2 #20, #18 or #16 | 1 #18 w/1 or 2 #10                   |
|                                          | 2 #14 w/1 or 2 #12 or #10    | 3 #18 w/1 to 3 #16, #14 or #12 |                                |                                      |
|                                          | 2 #14 w/1 #8                 |                                |                                |                                      |
|                                          | 3 #14 w/1 #12 or #10         |                                |                                |                                      |



**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Twister® Wire Connectors                                                                                                        |                           |                             |                                      |                              |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|--------------------------------------|------------------------------|
| Model                                                                                                                                 | 600 Volt Maximum          |                             |                                      |                              |
| <b>342®</b><br>Strip wires<br>5/8"                                                                                                    | 1 or 2 #8                 | 4 #12 w/1 #10               | 1 #16 w/1 to 3 #10                   | 1 #14 w/3 #12 w/1 #10        |
|                                                                                                                                       | 2 to 4 #10                | 1 #14 w/1 to 4 #12          | 2 #16 w/1 to 4 #14 or #12            | 1 #14 w/1 #10 w/1 #8         |
|                                                                                                                                       | 2 to 6 #12                | 1 #14 w/1 to 3 #10          | 2 #16 w/1 or 2 #10                   | 2 #14 w/1 #12 w/1 or 2 #10   |
|                                                                                                                                       | 3 to 6 #14                | 1 #14 w/1 or 2 #8           | 3 #16 w/1 to 3 #14                   | 2 #14 w/1 #12 w/1 #8         |
|                                                                                                                                       | 1 #8 w/1 #6               | 1 or 2 #14 w/1 #6           | 3 #16 w/1 or 2 #12 or #10            | 2 #14 w/2 #12 w/1 #10        |
|                                                                                                                                       | 1 #10 w/1 or 2 #8         | 2 #14 w/1 to 3 #12          | 4 #16 w/1 or 2 #14 or #12            | 2 #14 w/1 #10 w/1 #8         |
|                                                                                                                                       | 2 #10 w/1 #8              | 2 #14 w/1 to 3 #10          | 4 #16 w/1 #10                        | 3 #14 w/1 #10 w/1 #8         |
|                                                                                                                                       | 1 #12 w/1 or 2 #10        | 2 #14 w/1 #8                | 3 #18 w/3 #16 or #14                 | 1 #16 w/1 #14 w/1 or 2 #12   |
|                                                                                                                                       | 1 #12 w/3 #10             | 3 #14 w/1 to 3 #12 or #10   | 3 #18 w/1 or 2 #12 or #10            | 2 #16 w/1 #14 w/1 or 2 #12   |
|                                                                                                                                       | 1 #12 w/1 or 2 #8         | 3 or 4 #14 w/1 #8           | 4 #18 w/1 or 2 #16, #14 or #12       | 2 #16 w/2 #14 w/1 #12 or #10 |
|                                                                                                                                       | 1 or 2 #12 w/1 #6         | 3 #14 w/1 #6                | 5 #18 w/1 #16, #14, #12 or #10       | 2 #16 w/1 #12 w/1 #10        |
|                                                                                                                                       | 2 #12 w/1 or 2 #10        | 4 #14 w/1 or 2 #12 or #10   | 1 #12 w/1 #10 w/1 #8                 | 3 #16 w/1 #14 w/1 or 2 #12   |
|                                                                                                                                       | 2 #12 w/1 #8 or #6        | 4 #14 w/1 #6                | 1 #14 w/1 #12 w/1 or 2 #10           | 3 #16 w/1 #14 w/1 #10        |
|                                                                                                                                       | 2 #12 w/2 #8              | 5 #14 w/1 #12 or #10        | 1 #14 w/1 #12 w/1 #8 or #6           | 4 #16 w/1 #14 w/1 #12        |
|                                                                                                                                       | 3 #12 w/1 #10 or #8       | 5 #14 w/1 #8                | 1 #14 w/2 #12 w/1 or 2 #10           |                              |
|                                                                                                                                       | 3 #12 w/2 #10             | 1 #16 w/2 to 5 #14 or #12   | 1 #14 w/2 #12 w/1 #8                 |                              |
| <b>343®</b><br>Strip wires<br>7/16"<br>(11mm)<br>For capping<br>off single<br>14, 12 or<br>10 AWG<br>conductors,<br>strip wires<br>¼" | 2 to 6 #22 AWG            | 3 #18 AWG with 1 or 2 #20   | 1 #14 AWG with 1 to 4 #22 AWG        | 1 #12 AWG with 1 to 3 #16    |
|                                                                                                                                       | 2 to 6 #20 AWG            | AWG or #22 AWG              | 1 #14 AWG with 1 to 3 #20 AWG        | AWG                          |
|                                                                                                                                       | 2 to 5 #18 AWG            | 4 #18 AWG with 1 #20 AWG or | 1 #14 AWG with 1 to 5 #18 AWG        | 1 #12 AWG with 1 or 2 #14    |
|                                                                                                                                       | 2 to 4 #16 AWG            | #22 AWG                     | 1 #14 AWG with 1 to 4 #16 AWG        | AWG                          |
|                                                                                                                                       | 1 to 4 #14 AWG            | 1 #16 AWG with 1 to 4 #20   | 2 #14 AWG with 1 to 3 #20 AWG or #22 | 2 #12 AWG with 1 or 2 #18    |
|                                                                                                                                       | 1 to 3 #14 AWG            | AWG or #22 AWG              | AWG                                  | AWG                          |
|                                                                                                                                       | 1 to 3 #12 AWG            | 1 #16 AWG with 1 to 5 #18   | 2 #14 AWG with 1 to 3 #18 AWG        | 2 #12 AWG with 1 #16 AWG     |
|                                                                                                                                       | 4 #12 AWG SOLID           | AWG                         | 2 #14 AWG with 1 to 3 #16 AWG        | 2 #12 AWG with 1 #14 AWG     |
|                                                                                                                                       | 1 #10 AWG                 | 2 #16 AWG with 1 to 3 #22   | 3 #14 AWG with 1 or 2 #18 AWG        | 1 #10 AWG with 1 to 3 #18    |
|                                                                                                                                       | 3 #20 AWG with 1 or 2 #22 | AWG                         | 3 #14 AWG with 1 #16 AWG             | AWG                          |
|                                                                                                                                       | AWG                       | 2 - #16 AWG with 1 to 3 #20 | 1 #12 AWG with 1 to 5 #18 AWG        | 1 #10 AWG with 1 or 2 #16    |
|                                                                                                                                       | 4 #20 AWG with 1 #22      | AWG                         |                                      | AWG                          |
|                                                                                                                                       | AWG                       | 2 #16 AWG with 1 to 4 - #18 |                                      | 1 #10 AWG with 1 or 2 #14    |
|                                                                                                                                       | 1 #18 AWG with 1 to 4 #20 | AWG                         |                                      | AWG                          |
|                                                                                                                                       | AWG or #22 AWG            | 3 #16 AWG with 1 to 3 #18   |                                      | 1 #10 AWG with 1 #12 AWG     |
|                                                                                                                                       | 2 #18 AWG with 1 to 3 #20 | AWG or #20 AWG or #22 AWG   |                                      |                              |
|                                                                                                                                       | AWG or #22 AWG            | 4 #16 AWG with 1 #20 AWG or |                                      |                              |
|                                                                                                                                       |                           | #22 AWG                     |                                      |                              |
|                                                                                                                                       |                           | 4 #16 AWG with 1 or 2 #18   |                                      |                              |
|                                                                                                                                       |                           | AWG                         |                                      |                              |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Twister® Wire Connectors               |                                   |                                       |                                |                                |
|----------------------------------------------|-----------------------------------|---------------------------------------|--------------------------------|--------------------------------|
| Model                                        | 600 Volt Maximum                  |                                       |                                |                                |
| <b>344®</b><br>Strip wires<br>1/2"<br>(13mm) | 1 #6                              | 1 #10 w/2 #12 w/1 to 3 #16            | 2 #12 w/1 to 4 #18, #16 or #14 | 2 #16 w/1 #18 w/1 to 3 #22     |
|                                              | 1 or 2 #8                         | 1 #10 w/2 #12 w/1 to 3 #18            | 3 #12 w/1 to 3 #18, #16 or #14 | 2 #16 w/1 #18 w/1 to 3 #20     |
|                                              | 1 to 4 #10                        | 1 #10 w/2 #12 w/1 or 2 #14            | 3 #12 w/1 #16 w/1 or 2 #18     | 2 #16 w/1 to 4 #22, #20 or #18 |
|                                              | 1 to 5 #12                        | 1 #10 w/3 #12 w/1 #14                 | 3 #12 w/1 #14 w/1 or 2 #18     | 3 #16 w/1 to 3 #22, #20 or #18 |
|                                              | 1 to 6 #14, #16                   | 2 #10 w/1 to 4 #18 or #16             | 3 #12 w/1 #14 w/1 or 2 #16     | 3 #16 w/1 or 2 #22 w/ 1 #20    |
|                                              | 2 to 6 #18                        | 2 #10 w/1 to 3 #14 or #12             | 3 #12 w/2 #14 w/1 #16          | 3 #16 w/1 #18 w/1 or 2 #22     |
|                                              | 3 to 6 #20                        | 2 #10 w/1 #16 w/1 to 3 #18            | 4 #12 w/1 or 2 #16             | 3 #16 w/1 #18 w/1 or 2 #20     |
|                                              | 4 to 6 #22                        | 2 #10 w/2 #14 w/1 or 2 #16            | 4 #12 w/1 #14                  | 4 #16 w/1 or 2 #22, #20 or #18 |
|                                              | 1 #6 w/1 or 2 #12                 | 2 #10 w/1 #12 w/1 to 3 #16            | 4 #12 w/1 #16 w/1 #18          | 4 #16 w/1 #22 w/1 #20          |
|                                              | 1 #6 w/1 #10                      | 2 #10 w/1 #12 w/1 or 2 #14            | 4 #12 w/1 #14 w/1 #18 or #16   | 4 #16 w/1 #18 w/1 #22          |
|                                              | 1 #6 w/2 #14 w/1 or 2 #16         | 2 #10 w/2 #12 w/1 or 2 #18            | 1 #14 w/1 to 5 #22 or #20      | 4 #16 w/1 #18 w/1 #20          |
|                                              | 1 #6 w/1 #12 w/1 or 2 #14         | 2 #10 w/2 #12 w/1 or 2 #16            | 1 #14 w/1 to 5 #18 or #16      | 5 #16 w/1 #22, #20 or #18      |
|                                              | 1 #6 w/2 #12 w/1 #18              | 2 #10 w/2 #12 w/1 #14                 | 1 #14 w/1 #16 w/1 to 3 #18     | 1 #18 w/1 to 5 #22 or #20      |
|                                              | 1 #6 w/1 #10 w/ 1 #14             | 3 #10 w/1 to 3 #18 3 #10 w/1 to 3 #16 | 2 #14 w/1 #16 w/1 to 3 #18     | 1 #20 w/1 #22 w/ 1 to 3 #18    |
|                                              | 1 #8 w/1 to 5 #16                 | 3 #10 w/1 or 2 #14                    | 2 #14 w/1 to 4 #22 or #20      | 1 #20 w/2 #22 w/ 1 to 3 #18    |
|                                              | 1 #8 w/1 to 4 #14                 | 3 #10 w/1 #12                         | 2 #14 w/1 to 4 #18 or #16      | 2 #20 w/1 #22 w/ 1 to 3 #18    |
|                                              | 1 #8 w/1 to 3 #12                 | 3 #10 w/1 #16 w/1 or 2 #18            | 3 #14 w/1 to 3 #22 or #20      | 2 #18 w/1 to 4 #22, #20        |
|                                              | 1 #8 w/2 #12 w/1 or 2 #14         | 3 #10 w/1 #14 w/1 or 2 #18            | 3 #14 w/1 to 3 #18 or #16      | 3 #18 w/1 to 3 #22 or #20      |
|                                              | 1 #8 w/1 or 2 #10                 | 3 #10 w/1 #14 w/1 #16                 | 3 #14 w/1 #16 w/1 or 2 #18     | 4 #18 w/1 or 2 #22 or #20      |
|                                              | 1 #8 w/1 #10 w/1 or 2 #14, #12    | 3 #10 w/1 #12 w/1 #18                 | 4 #14 w/1 or 2 #22             | 5 #18 w/1 #22 or #20           |
|                                              | 1 #8 w/2 #10 w/1 #14              | 3 #10 w/1 #12 w/1 #16                 | 4 #14 w/1 or 2 #20, #18 or #16 | 1 #20 w/2 to 5 #22             |
|                                              | 1 #10 w/1 to 5 #18, #16 or #14    | 1 #12 w/1 to 5 #18, #16 or #14        | 4 #14 w/1 #16 w/1 #18          | 2 #20 w/1 to 4 #22             |
|                                              | 1 #10 w/1 to 4 #12                | 1 #12 w/1 #16 w/1 to 3 #18            | 5 #14 w/1 #18 or #16           | 3 #20 w/1 to 3 #22             |
|                                              | 1 #10 w/1 #16 w/1 to 4 #18        | 1 #12 w/1 #14 w/1 to 3 #18            | 1 #16 w/1 to 5 #22, #20 or #18 | 4 #20 w/1 or 2 #22             |
|                                              | 1 #10 w/1 #14 w/1 to 4 #16 or #18 | 1 or 2 #12 w/1 #14 w/1 to 3 #16       | 1 #16 w/1 #20 w/1 or 2 #22     | 5 #20 w/1 #22                  |
|                                              | 1 #10 w/2 #14 w/1 to 3 #16        | 1 #12 w/2 #14 w/1 or 2 #16            | 1 #16 w/2 #20 w/1 or 2 #22     |                                |
|                                              | 1 #10 w/1 #12 w/1 to 4 #14        | 2 #12 w/1 #14 w/1 to 3 #18            | 1 #16 w/1 #18 w/1 to 3 #22     |                                |
|                                              | 1 #10 w/1 #12 w/1 to 4 #16 or #18 | 2 #12 w/1 #16 w/1 to 3 #18            | 1 #16 w/1 #18 w/1 to 3 #20     |                                |
|                                              |                                   | 2 #12 w/2 #14 w/1 or 2 #16            | 2 #16 w/1 #20 w/1 or 2 #22 2   |                                |
|                                              |                                   |                                       | #16 w/2 #20 w/1 or 2 #22       |                                |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Twister® Wire Connectors                                                                              |                                   |                                 |                                |                                |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------|--------------------------------|--------------------------------|
| Model                                                                                                       | 1000 Volt Maximum                 |                                 |                                |                                |
| <b>347</b><br><b>Twister®</b><br>Strip wires<br>1/2"<br>(13mm);<br>7/16"<br>(11mm) for<br>4 #10 AWG<br>Str. | 1 #6                              | 1 #10 w/2 #12 w/1 to 3 #16      | 2 #12 w/1 to 4 #18, #16 or #14 | 2 #16 w/1 #18 w/1 to 3 #22     |
|                                                                                                             | 1 or 2 #8                         | 1 #10 w/2 #12 w/1 to 3 #18      | 3 #12 w/1 to 3 #18, #16 or #14 | 2 #16 w/1 #18 w/1 to 3 #20     |
|                                                                                                             | 1 to 4 #10                        | 1 #10 w/2 #12 w/1 or 2 #14      | 3 #12 w/1 #16 w/1 or 2 #18     | 2 #16 w/1 to 4 #22, #20 or #18 |
|                                                                                                             | 1 to 5 #12                        | 1 #10 w/3 #12 w/1 #14           | 3 #12 w/1 #14 w/1 or 2 #18     | 3 #16 w/1 to 3 #22, #20 or #18 |
|                                                                                                             | 1 to 6 #14, #16                   | 2 #10 w/1 to 4 #18 or #16       | 3 #12 w/1 #14 w/1 or 2 #16     | 3 #16 w/1 or 2 #22 w/ 1 #20    |
|                                                                                                             | 2 to 6 #18                        | 2 #10 w/1 to 3 #14 or #12       | 3 #12 w/2 #14 w/1 #16          | 3 #16 w/1 #18 w/1 or 2 #22     |
|                                                                                                             | 3 to 6 #20                        | 2 #10 w/1 #16 w/1 to 3 #18      | 4 #12 w/1 or 2 #16             | 3 #16 w/1 #18 w/1 or 2 #20     |
|                                                                                                             | 4 to 6 #22                        | 2 #10 w/2 #14 w/1 or 2 #16      | 4 #12 w/1 #14                  | 4 #16 w/1 or 2 #22, #20 or #18 |
|                                                                                                             | 1 #6 w/1 or 2 #12                 | 2 #10 w/1 #12 w/1 to 3 #16      | 4 #12 w/1 #16 w/1 #18          | 4 #16 w/1 #22 w/1 #20          |
|                                                                                                             | 1 #6 w/1 #10                      | 2 #10 w/1 #12 w/1 or 2 #14      | 4 #12 w/1 #14 w/1 #18 or #16   | 4 #16 w/1 #18 w/1 #22          |
|                                                                                                             | 1 #6 w/2 #14 w/1 or 2 #16         | 2 #10 w/2 #12 w/1 or 2 #18      | 1 #14 w/1 to 5 #22 or #20      | 4 #16 w/1 #18 w/1 #20          |
|                                                                                                             | 1 #6 w/1 #12 w/1 or 2 #14         | 2 #10 w/2 #12 w/1 or 2 #16      | 1 #14 w/1 to 5 #18 or #16      | 5 #16 w/1 #22, #20 or #18      |
|                                                                                                             | 1 #6 w/2 #12 w/1 #18              | 2 #10 w/2 #12 w/1 #14           | 1 #14 w/1 #16 w/1 to 3 #18     | 1 #18 w/1 to 5 #22 or #20      |
|                                                                                                             | 1 #6 w/1 #10 w/ 1 #14             | 3 #10 w/1 to 3 #18 3 #10 w/1    | 2 #14 w/1 #16 w/1 to 3 #18     | 1 #20 w/1 #22 w/ 1 to 3 #18    |
|                                                                                                             | 1 #8 w/1 to 5 #16                 | or 3 #16                        | 2 #14 w/1 to 4 #22 or #20      | 1 #20 w/2 #22 w/ 1 to 3 #18    |
|                                                                                                             | 1 #8 w/1 to 4 #14                 | 3 #10 w/1 or 2 #14              | 2 #14 w/1 to 4 #18 or #16      | 2 #20 w/1 #22 w/ 1 to 3 #18    |
|                                                                                                             | 1 #8 w/1 to 3 #12                 | 3 #10 w/1 #12                   | 3 #14 w/1 to 3 #22 or #20      | 2 #18 w/1 to 4 #22, #20        |
|                                                                                                             | 1 #8 w/2 #12 w/1 or 2 #14         | 3 #10 w/1 #16 w/1 or 2 #18      | 3 #14 w/1 to 3 #18 or #16      | 3 #18 w/1 to 3 #22 or #20      |
|                                                                                                             | 1 #8 w/1 or 2 #10                 | 3 #10 w/1 #14 w/1 or 2 #18      | 3 #14 w/1 #16 w/1 or 2 #18     | 4 #18 w/1 or 2 #22 or #20      |
|                                                                                                             | 1 #8 w/1 #10 w/1 or 2 #14, #12    | 3 #10 w/1 #14 w/1 #16           | 4 #14 w/1 or 2 #22             | 5 #18 w/1 #22 or #20           |
|                                                                                                             | 1 #8 w/2 #10 w/1 #14              | 3 #10 w/1 #12 w/1 #18           | 4 #14 w/1 or 2 #20, #18 or #16 | 1 #20 w/2 to 5 #22             |
|                                                                                                             | 1 #10 w/1 to 5 #18, #16 or #14    | 3 #10 w/1 #12 w/1 #16           | 4 #14 w/1 #16 w/1 #18          | 2 #20 w/1 to 4 #22             |
|                                                                                                             | 1 #10 w/1 to 4 #12                | 1 #12 w/1 to 5 #18, #16 or #14  | 5 #14 w/1 #18 or #16           | 3 #20 w/1 to 3 #22             |
|                                                                                                             | 1 #10 w/1 #16 w/1 to 4 #18        | 1 #12 w/1 #16 w/1 to 3 #18      | 1 #16 w/1 to 5 #22, #20 or #18 | 4 #20 w/1 or 2 #22             |
|                                                                                                             | 1 #10 w/1 #14 w/1 to 4 #16 or #18 | 1 #12 w/1 #14 w/1 to 3 #18      | 1 #16 w/1 #20 w/1 or 2 #22     | 5 #20 w/1 #22                  |
|                                                                                                             | 1 #10 w/2 #14 w/1 to 3 #16        | 1 or 2 #12 w/1 #14 w/1 to 3 #16 | 1 #16 w/2 #20 w/1 or 2 #22     |                                |
|                                                                                                             | 1 #10 w/1 #12 w/1 to 4 #14        | 1 #12 w/2 #14 w/1 or 2 #16      | 1 #16 w/1 #18 w/1 to 3 #22     |                                |
|                                                                                                             | 1 #10 w/1 #12 w/1 to 4 #16 or #18 | 2 #12 w/1 #14 w/1 to 3 #18      | 1 #16 w/1 #18 w/1 to 3 #20     |                                |
|                                                                                                             |                                   | 2 #12 w/1 #16 w/1 to 3 #18      | 2 #16 w/1 #20 w/1 or 2 #22     |                                |
|                                                                                                             |                                   | 2 #12 w/2 #14 w/1 or 2 #16      | 2 #16 w/2 #20 w/1 or 2 #22     |                                |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL WeatherProof™ Wire Connectors                                              |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                            | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>61®</b><br>Strip wires<br>3/8"; Strip<br>wires #18<br>and<br>smaller<br>7/16" | 1 or 2 #14<br>1 #16 Str<br>2 #16<br>1 to 4 # 18 Str<br>2 to 4 #18 Sol<br>2 to 4 #20<br>1 #14 w/1 #16<br>1 #14 w/ 1 #16 w/ 1 #18                                                                                                                                                                                                                 | 1 #14 w/1 or 2 #18<br>1 #14 w/1 to 3 #20<br>1 #14 w/1 to 3 #22<br>2 #16 w/ 1 #18<br>2 #16 w/1 to 3 #22<br>2 #16 w/1 or 2 #20<br>1 #16 w/1 or 2 #18<br>1 #16 w/1 to 3 #22 or #20                                                                                                                                                         | 3 #18 w/1 #22 or #20<br>2 #18 w/1 or 2 #22 or #20<br>1 #18 w/2 to 4 #20<br>1 #18 w/3 to 4 #22<br>1 or 2 #16 w/1 #20 w/1 #22<br>1 or 2 #18 w/1 #20 w/1 #22                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model                                                                            | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>62®</b><br>Strip wires<br>1/2"                                                | 1 or 2 #10<br>1 to 3 #12<br>1 to 5 #14<br>1 to 6 #16<br>3 to 6 #18<br>1 #18 w/2 or 3 #16<br>1 #18 w/1 to 3 #14 or #12<br>2 #16 w/1 to 4 #14<br>2 #16 w/1 to 3 #12<br>1 #16 w/1 to 2 #14 w/1 #10                                                                                                                                                 | 1 #18 w/1 or 2 #10<br>2 #18 w/1 to 3 #16, #14, or #12<br>2 #18 w/1 or 2 #10<br>3 #18 w/1 or 2 #16, #14, #12, or #10<br>4 #18 with 1 or 2 #16 or #14<br>4 #18 w/1 to 2 #12<br>4 #18 w/1 #10<br>2 #16 with 1 #10<br>3 #16 w/1 #12 w/1 #10                                                                                                 | 3 #16 w/1 or 2 #14 or #12<br>3 #16 w/1 #10 str.<br>4 #16 w/1 #14 or #12<br>1 #14 Sol. w/1 or 2 #12<br>1 #14 w/1 or 2 #10<br>1 #14 w/1 #8 Str<br>2 #14 w/1 #12 or #10<br>2 #14 w/1 #8 Str or #10<br>2 #14 w/1 #12 w/ 1 #10<br>1 #14 w/1 #12 w/1 #10                                                         | 3 #14 w/1 #10<br>3 #14 w/1 or 2 #12<br>1 #12 Sol w/1 #10 Sol<br>2 #12 w/1 #10<br>1 #16 w/1 or 2 #14 with 1 #12<br>1 #16 w/1 to 3 #14, #12<br>1 #16 w/1 to 2 #10<br>1 #16 w/1 #12 w/1 #10<br>2 #16 w/1 #14 w/1 to 2 #12<br>2 #16 w/1 #12 w/1 #10                                                                                                                                                                    |
| Model                                                                            | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>63®</b><br>Strip wires<br>5/8",<br>7/16" for<br>#18 and<br>smaller            | 3 to 6 #14<br>2 to 6 #12<br>2 to 5 #10<br>1 to 2 #8<br>3 #18 w/3 #16 or #14<br>3 #18 w/1 or 2 #12 or #10<br>4 #18 w/ 1 or 2 #16, #14, or #12<br>5 #18 w/ 1 #16, #14, #12, or #10<br>1 #16 w/ 2 to 5 #14 or #12<br>1 #16 w/ 1 to 3 #10<br>2 #16 w/ 1 to 4 #14 or #12<br>2 #16 w/ 1 or 2 #10<br>3 #16 w/ 1 to 3 #14<br>3 #16 w/ 1 or 2 #12 or #10 | 4 #16 w/ 1 or 2 #14 or #10<br>4 #16 w/ 1 #10<br>1 #14 w/ 1 to 4 #12<br>1 #14 w/ 1 to 3 #10<br>1 #14 w/ 1 or 2 #8<br>1 or 2 #14 w/ 1 #16<br>2 #14 w/ 1 to 4 #12 or #10<br>2 #14 w/ 1 #18<br>3 #14 w/ 1 to 3 #12 or #10<br>3 or 4 #14 w/ 1 #18<br>3 #14 w/ 1 #16<br>4 #14 w/ 1 or 2 #12 or #10<br>4 #14 w/ 1 #16<br>5 #14 w/ 1 #12 or #10 | 5 #14 w/ 1 #18<br>1 #12 w/ 1 or 2 #10<br>1 #12 w/ 3 #10<br>1 #12 w/ 1 or 2 #8<br>1 or 2 #12 w/ 1 or 2 #6<br>2 #12 w/ 1 or 2 #10<br>2 #12 w/ 1 #8 or #6<br>2 #12 w/ 2 #8<br>3 #12 w/ 1 #10 or #8<br>3 #12 w/ 2 #10<br>4 #12 w/ 1 #10<br>1 #10 w/ 1 or 2 #8<br>1 #8 w/ 1 #16<br>1 #16 w/ 1 #14 w/ 1 or 2 #12 | 2 #16 w/ 1 #14 w/ 1 or 2 #12<br>2 #16 w/ 2 #14 w/ 1 #12 or #10<br>2 #16 w/ 1 #12 w/ 1 #10<br>3 #16 w/ 1 #14 w/ 1 or 2 #12<br>4 #16 w/ 1 #14 w/ 1 #12 or #10<br>1 #16 w/ 1 #12 w/ 1 or 2 #10<br>1 #14 w/ 1 #12 w/ 1 or 2 #10<br>1 #14 w/ 2 #12 w/ 1 #8<br>1 #14 w/ 3 #12 w/ 1 #10<br>1 #14 w/ 1 #10 w/ 1 #8<br>2 #14 w/ 1 #12 w/ 1 #8<br>2 #14 w/ 1 #10 w/ 1 #8<br>3 #14 w/ 1 #10 w/ 1 #8<br>1 #12 w/ 1 #10 w/ 1 #8 |
| IDEAL UnderGround Wire Connectors                                                |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model                                                                            | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>60®</b><br>Strip wires<br>1/2"                                                | 2 #10<br>1 to 3 #12<br>1 to 4 #14<br>2 #16 or #18<br>1 #12 w/1 #8 or #10<br>2 #12 w/1 #10<br>1 #14 sol w/1 or 2 #12                                                                                                                                                                                                                             | 1 #14 w/1 or 2 #10<br>1 #14 w/1 #10 w/1 #12<br>2 #14 w/1 #12<br>2 #14 w/1 #10<br>3 #14 w/1 #12<br>1 #16 w/2 #10<br>1 #16 w/1 to 3 #12 or #14                                                                                                                                                                                            | 1 #16 w/1 #10 or #12 and 1 or 2 #14<br>2 #16 w/1 or 2 #12<br>2 #16 w/1 #12 w/1 #14<br>2 #16 w/1 or 2 #14<br>2 #16 w/1 #10<br>3 #16 w/1 or 2 #14                                                                                                                                                            | 3 #16 w/1 #12<br>1 #18 w/1 to 3 #12, #14 or #16<br>2 #18 w/1 or 2 #10 or #12<br>2 #18 w/1 or 2 #14 or #16<br>3 #18 w/1 or 2 #16 or #14<br>3 #18 w/1 #10<br>1 #20 w/1 to 4 #16 or #18                                                                                                                                                                                                                               |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| <b>IDEAL UnderGround Wire Connectors</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                                | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>64®</b><br>Strip wires<br>5/8"           | 3 or 4 #22 solid<br>3 or 4 #20 solid<br>2 to 4 # 18 solid<br>2 to 4 #16<br>2 to 5 #14<br>1 to 3 #12<br>4 #12 sol.<br>1 to 3 #10<br>1 #20 solid w/ 1 to 4 # 18 or 16<br>2 #20 solid w/ 1 to 3 # 18 or 16<br>3 #20 solid w/ 1 or 2 #18 or 16<br>1 #18 w/ 1 to 4 # 16, 14, 12                                                                                                                                                                         | 1 #18 w/ 1 to 2 #10<br>2 #18 w/ 1 to 3 #16, 14, 12<br>2 #18 w/ 1 to 2 #10<br>3 #18 w/ 1 to 2 #16, 14, 12<br>3 #18 w/ 1 or 2 #10<br>1 #16 w/ 1 to 4 #14, 12<br>1 #16 w/ 1 to 2 #10<br>2 #16 w/ 1 to 4 #14<br>2 #16 w/ 1 to 3 #12<br>2 #16 w/ 1 to 2 #10<br>3 #16 w/ 1 to 3 #14<br>3 #16 w/ 1 or 2 # 12, 10                                                                                                                                                         | 1 #14 solid w/ 1 or 3 #12<br>1 #14 w/ 1 or 2 #10<br>2 #14 w/ 1 to 2 # 12<br>2 #14 w/ 1 to 2 #10<br>2 #14 w/ 1 #8<br>3 #14 w/ 1 # 12 or #10<br>3 #14 w/ 2 #12<br>4 #14 w/ 1 #12 or 10<br>1 #12 w/ 1 or 2 #10<br>1 #12 w/ 1 #8<br>2 #12 w/ 1 #10<br>1 #10 w/ 1 #8                                                                                                                                                                                                          | 1 #16 w/ 1 or 2 #14 w/ 1 #12 or 10<br>1 #16 w/ 1 # 12 w/ 1 #10<br>2 #16 w/ 1 #14 w/ 1 or 2 #12<br>2 #16 w/ 2 #14 w/ 1 #12<br>2 #16 w/ 1 #12 w/ 1 #10<br>3 #16 w/ 1 #14 w/ 1 #12 or 10<br>1 #14 w/ 1 or 2 #12 w/ 1 #10<br>2 #14 w/ 1 #12 w/ 1 #10<br>1 #22 solid w/ 1 #18 w/ 1 #16<br>1 #22 solid w/ 1 # 20 solid w/ 1 or 2 #16                                                                                                                                                                                                                                  |
| <b>Model</b>                                | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>66®</b><br>Strip wires<br>1"             | 1 or 2 #6<br>2 or 3 #8<br>2 to 5 #10<br>3 to 6 #12<br>1 #6 w/1 or 2 #8<br>1 #6 w/1 to 3 #10<br>1 #6 w/1 to 5 #12                                                                                                                                                                                                                                                                                                                                   | 1 #6 w/1 to 4 #14<br>2 #6 w/1 #10 or #12<br>2 #6 w/1 or 2 #14<br>1 #8 w/1 to 4 #10<br>1 #8 w/1 to 5 #12 or #14<br>2 #8 w/1 or 2 #10                                                                                                                                                                                                                                                                                                                               | 2 #8 w/1 to 3 #12<br>2 #8 w/1 to 4 #14<br>3 #8 w/1 or 2 #14<br>1 #10 w/2 to 4 #12<br>1 #10 w/3 to 5 #14<br>2 #10 w/1 to 4 #12 or #14                                                                                                                                                                                                                                                                                                                                     | 3 #10 w/1 to 3 #12 or #14<br>4 #10 w/1 or 2 #12 or #14<br>1 #12 w/4 or 5 #14<br>2 #12 w/2 to 4 #14<br>3 #12 w/1 to 3 #14<br>4 #12 w/1 #14                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>IDEAL Twister® AL/CU Wire Connectors</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Model</b>                                | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                             | <b>Copper-or-Copper only combinations</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Copper-or-Aluminum combinations. Not for use on Aluminum-or-Aluminum conductors.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>65®</b><br>Strip wires<br>1/2"<br>(13mm) | 1 to 3 #10<br>4 #12 sol<br>1 to 3 #12<br>1 to 5 #14<br>1 to 6 #16<br>2 to 6 #18<br>3 to 6 #20<br>4 to 6 #22<br>2 #22 w/3 to 5 #20<br>1 #22 w/1 to 5 #18, #16<br>2 #22 w/1 to 4 #20, #18, #16<br>3 #22 w/1 to 3 #20, #18, #16<br>4 #22 w/1 or 2 #20, #18, #16<br>1 #20 w/1 to 4 #18, #16, #14<br>2 #20 w/1 to 3 #18, #16, #14<br>3 #20 w/1 or 2 #18, #16, #14<br>4 #20 w/1 or 2 #18, #16, #14<br>1 #18 w/1 to 4 #16, #14, #12<br>1 #18 w/1 or 2 #10 | 2 #18 w/1 to 4 #16, #14, #12<br>2 or 3 #18 w/1 or 2 #10<br>4 #18 w/1 or 2 #16, #14, #12<br>4 #18 w/1 #10<br>5 #18 w/1 #16 or #14<br>1 #16 w/1 to 4 #14, #12<br>1 #16 w/1 or 2 #10<br>2 #16 w/1 to 4 #14<br>3 #16 w/1 to 3 #14<br>3 #16 w/1 or 2 #12, #10<br>4 #16 w/1 or 2 #14, #12<br>4 #16 w/1 #10<br>5 #16 w/1 #14<br>5 #16 sol w/1 #10 sol<br>1 #14 sol w/1 to 3 #12<br>1 or 2 #14 w/1 or 2 #10<br>2 #14 w/1 or 2 #10<br>2 #14 w/1 #8<br>3 #14 w/1 #12 or #10 | 1 #10 AL sol. w/1 or 2 #10 CU sol.<br>3 #14 w/2 #12<br>4 #14 w/1 #12 or #10<br>1 #12 w/1 or 2 #10<br>1 #12 w/1 #8<br>2 #12 w/1 #10<br>1 #10 w/1 #8<br>1 #22 w/1 #18 w/1 #16<br>1 #22 w/1 #20 w/1 or 2 #16<br>1 #16 w/1 or 2 #14 w/1 #12 or #10<br>1 #16 w/1 #12 w/1 #10<br>2 #16 w/1 #14 #w/1 or 2 #12<br>2 #16 w/2 #14 w/1 #12<br>2 #16 w/1 #12 w/1 #10<br>3 #16 w/1 #14 w/1 #12 or #10<br>4 #16 w/1 #12 w/1 #10<br>1 #14 w/1 or 2 #12 w/1 #10<br>2 #14 w/1 #12 w/1 #10 | 1 #10 AL w/1 or 2 #12 CU<br>1 #10 AL w/1 or 2 #14 CU<br>1 #10 AL w/1 or 2 #16 CU<br>1 #10 AL w/1 or 2 #18 CU<br>2 #10 AL sol. w/1 #12 CU<br>2 #10 AL sol. w/1 #14 CU<br>2 #10 AL sol. w/1 #16 CU<br>2 #10 AL sol. w/1 #18 CU<br>1 #12 AL sol. w/1 or 2 #10 CU<br>1 #12 AL str. w/1 or 2 #10 CU sol.<br>1 #12 AL w/1 or 2 #12 CU<br>1 #12 AL w/1 or 2 #14 CU<br>1 #12 AL w/1 or 2 #16 CU<br>1 #12 AL w/1 or 2 #18 CU<br>2 #12 AL sol. w/1 #10 CU<br>2 #12 AL sol. w/1 #12 CU<br>2 #12 AL sol. w/1 #14 CU<br>2 #12 AL sol. w/1 #16 CU<br>2 #12 AL sol. w/1 #18 CU |



**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

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| Buchanan B-CAP® Wire Connectors                                                |                                                                                                                                                                                                                              |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                          | 600 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
| <b>B1</b><br>Strip wires<br>1/2"; Strip<br>wires #16<br>and<br>smaller<br>5/8" | 2 or 3 #12<br>2 to 4 #14<br>2 to 5 #16<br>2 to 6 #18<br>3 to 6 #20<br>4 to 6 #22<br>#20 w/#22 3 or 6*<br>#18 w/#22 3 or 6*<br>#18 w/#20 3 or 6*                                                                              | #16 w/#22 2 or 6*<br>#16 w/#20 2 or 6*<br>#16 w/#18 2 or 6*<br>#14 w/#22 2 or 4*<br>#14 w/#20 2 or 4*<br>#14 w/#18 2 or 4*<br>#14 w/#16 2 or 4*<br>#12 w/#22 2 or 3*<br>#12 w/#20 2 or 3*                                    | #12 w/#18 2 or 3*<br>#12 w/#16 2 or 3*<br>#12 w/#14 2 or 3*<br>1 #10 w/1 #12<br>1 #10 w/1 or 2 #14<br>1 #10 w/1 or 2 #16<br>1 #10 w/1 to 3 #18                                                                                  |                                                                                                                                                                                                                                     |
| Model                                                                          | 600 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
| <b>B2</b><br>Strip wires<br>1/2"; Strip<br>wires #16<br>and<br>smaller<br>5/8" | 2 #10 stranded<br>2 or 3 #10 solid<br>2 to 4 #12 stranded<br>2 to 5 #12 solid<br>2 to 5 #14 stranded<br>2 to 6 #14 solid<br>2 to 5 #16 stranded<br>2 to 6 #16 solid<br>2 to 5 #18 stranded<br>2 to 6 #18 solid<br>3 to 6 #20 | 5 or 6 #22<br>#20 w/#22 4 or 6*<br>#18 w/#22 3 or 6*<br>#18 w/#20 3 or 6*<br>#16 w/#22 3 or 6*<br>#16 w/#20 2 or 6*<br>#16 w/#18 2 or 6*<br>#14 w/#22 2 or 6*<br>#14 w/#20 2 or 6*<br>#14 w/#18 2 or 6*<br>#14 w/#16 2 or 6* | #12 w/#22 2 or 6*<br>#12 w/#20 2 or 6*<br>#12 w/#18 2 or 5*<br>#12 w/#16 2 or 5*<br>#12 w/#14 2 or 5*<br>1 #10 w/1 to 4 #18<br>2 #10 w/1 to 3 #18<br>1 #10 w/1 to 4 #16<br>2 #10 w/1 to 3 #16<br>to 4 #14<br>2 #10 w/1 or 2 #14 | 1 #10 w/1 to 3 #12<br>2 #10 w/1 #12<br>1 #8 stranded w/1 #14 stranded<br>1 #8 stranded w/1 #12 stranded<br>1 #8 stranded w/1 #10 stranded<br>1 #12 w/1 #14 w/1 to 4 #16<br>1 #12 w/2 #14 w/1 or 2 #16<br>2 #12 w/1 #14 w/1 to 3 #16 |
| Model                                                                          | 600 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
| <b>B4</b><br>Strip wires<br>3/4"                                               | 2 #6 stranded or #8 stranded<br>2 or 3 #8 solid<br>2 to 4 #10 stranded<br>2 to 5 #10 solid<br>2 to 5 #12                                                                                                                     | 4 to 6 #14<br>#12 w/#14 2 or 6*<br>#10 w/#14 2 or 5*<br>#10 w/#12 2 or 5*<br>1 #8 w/1 to 4 #14                                                                                                                               | 1 #8 w/1 to 4 #12<br>2 #8 w/1 to 3 #12<br>3 #8 solid w/1 #12<br>1 #8 w/1 to 4 #10<br>2 #8 w/1 or 2 #10                                                                                                                          | 1 #6 w/1 to 4 #14<br>1 #6 w/1 to 4 #12<br>1 #6 w/1 or 2 #10<br>1 #6 w/1 or 2 #8                                                                                                                                                     |
| Model                                                                          | 600 Volt Maximum                                                                                                                                                                                                             |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                     |
| <b>BGR/<br/>WGR</b><br>Strip wires<br>1"                                       | 2 or 3 #10<br>2 to 5 #12 or #14<br>2 #10 w/1 or 2 #12<br>2 #10 w/1 #12 w/1 #14                                                                                                                                               | 2 #10 w/1 to 3 #14<br>1 #10 w/1 to 3 #12<br>1 #10 w/1 to 4 #14<br>1 #10 w/1 to 3 #12 w/1 #14                                                                                                                                 | 1 #10 w/1 or 2 #12 w/1 or 2 #14<br>1 #10 w/1 #12 w/1 to 3 #14<br>4 #12 w/1 #14                                                                                                                                                  | 3 #12 w/1 or 2 #14<br>2 #12 w/1 to 3 #14<br>1 #12 w/1 to 4 #14                                                                                                                                                                      |



# **UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

UL File No. E5238

Page 12

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| Buchanan B-Twist™ Wire Connectors                                        |                                   |                                   |                                        |                                             |
|--------------------------------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|---------------------------------------------|
| Model                                                                    | 600 Volt Maximum                  |                                   |                                        |                                             |
| BT2<br>Strip wires<br>1/2"                                               | 1 to 4 #10                        | 1 #10 w/2 #12 w/1 to 3 #18 or #16 | 1 or 2 #12 w/1 #14 w/1 to 3 #18 or #16 | 1 or 2 #16 w/1 or 2 #20 w/1 or 2 #22 or #20 |
|                                                                          | 1 to 5 #12                        | 1 #10 w/2 #12 w/1 or 2 #14        | 1 or 2 #12 w/2 #14 w/1 #16             | 1 #16 w/1 #18 w/1 to 3 #22 or #20           |
|                                                                          | 1 to 6 #14 or #16                 | 1 #10 w/3 #12 w/1 #14             | 2 #12 w/1 to 4 #18, #16 or #14         | 2 #16 w/1 to 3 #22, #20 or #18              |
|                                                                          | 2 to 6 #18                        | 1 #10 w/1 to 4 #18 or #16         | 3 #12 w/1 to 3 #18, #16 or #14         | 3 #16 w/1 to 3 #22 w/1 #20                  |
|                                                                          | 3 to 6 #20                        | 2 #10 w/1 to 3 #14                | 3 #12 w/1 #16 w/1 or 2 #18             | 3 #16 w/1 or 2 #22 w/1 #20                  |
|                                                                          | 4 to 6 #22                        | 2 #10 w/1 to 3 #12                | 3 #12 w/1 #14 w/1 or 2 #18 or #16      | 3 #16 w/1 #18 or 2 #22 or #20               |
|                                                                          | 1 #8 w/1 to 5 #16                 | 2 #10 w/1 #16 w/1 to 3 #18        | 3 #12 w/2 #14 w/1 #16                  | 4 #16 w/1 or 2 #22, #20 or #18              |
|                                                                          | 1 #8 w/1 to 4 #14                 | 2 #10 w/2 #14 w/1 or 2 #16        | 4 #12 w/1 or 2 #16                     | 4 #16 w/1 #22 w/1 #20                       |
|                                                                          | 1 #8 w/1 to 3 #12                 | 2 #10 w/1 #12 w/1 to 3 #16        | 4 #12 w/1 #14                          | 4 #16 w/1 #18 w/1 #22 or #20                |
|                                                                          | 1 #8 w 2 #12 w/1 to 4 #14         | 2 #10 w/1 #12 w/1 to 4 #14        | 4 #12 w/1 #16 w/1 #18                  | 5 #16 w/1 #22, #20 or #18                   |
|                                                                          | 1 #8 w/1 or 2 #10                 | 2 #10 w/2 #12 w/1 or 2 #18 or #16 | 4 #12 w/1 #14 w/1 #18 or #16           | 1 #18 w/1 to 5 #22 or #20                   |
|                                                                          | 1 #8 w/1 #10 w/1 or 2 #14 or #12  | 2 #10 w/2 #12 w/1 #14             | 1 #14 w/1 to 5 #22, #20, #18 or #16    | 1 to 3 #18 w/1 or 2 #22 w/1 #20             |
|                                                                          | 1 #8 w/2 #10 w/1 #14              | 3 #10 w/1 to 3 #18 or #16         | 1 or 2 #14 w/1 #16 w/1 to 3 #18        | 1 to 3 #18 w/2 #22 or #20                   |
|                                                                          | 2 #8                              | 3 #10 w/1 or 2 #14                | 2 #14 w/1 to 4 #22, #20, #18 or #16    | 2 #18 w/1 to 4 #22 or #20                   |
|                                                                          | 1 #10 w/1 to 5 #18, #16 or #14    | 3 #10 w/1 #12                     | 3 #14 w/1 to 3 #22, #20, #18 or #16    | 3 #18 w/1 to 3 #22 or #20                   |
|                                                                          | 1 #10 w/1 to 4 #12                | 3 #10 w/1 #16 w/1 or 2 #18        | 3 #14 w/1 #16 w/1 or 2 #18             | 4 #18 w/1 or 2 #22 or #20                   |
|                                                                          | 1 #10 w/1 #16 w/1 to 4 #18        | 3 #10 w/1 #14 w/1 or 2 #18        | 4 #14 w/1 or 2 #22, #20, #18 or #16    | 5 #18 w/1 #22 or #20                        |
|                                                                          | 1 #10 w/1 #14 w/1 to 4 #18 or #16 | 3 #10 w/1 #14 w/1 #16             | 4 #14 w/1 #16 w/1 #18                  | 1 #20 w/3 to 5 #22                          |
|                                                                          | 1 #10 w/2 #14 w/1 to 3 #16        | 3 #10 w/1 #12 w/1 #18 or #16      | 5 #14 w/1 #18 or #16                   | 2 #20 w/2 to 4 #22                          |
|                                                                          | 1 #10 w/1 #12 w/1 to 4 #18 or #16 | 1 #12 w/1 to 5 #18, #16 or #14    | 1 #16 w/1 to 5 #22, #20 or #18         | 3 #20 w/2 or 3 #22                          |
|                                                                          | 1 #10 w/1 #12 w/1 to 4 #14        | 1 or 2 #12 w/1 #16 w/1 to 3 #18   |                                        | 4 #20 w/2 #22                               |
|                                                                          |                                   |                                   |                                        | 5 #20 w/1 #22                               |
| Buchanan WireTwist™ Wire Connectors                                      |                                   |                                   |                                        |                                             |
| Model                                                                    | 300 Volt Maximum                  |                                   | 600 Volt Maximum                       |                                             |
| WT1<br>Strip solid<br>wires<br>1/4"; strip<br>stranded<br>wires<br>5/16" | 1 #14                             | 1 #18 w/1 to 3 #20                |                                        |                                             |
|                                                                          | 1 or 2 #16                        | 1 #18 w/1 to 4 #22                |                                        |                                             |
|                                                                          | 2 or 3 #18                        | 2 #22 stranded only               |                                        |                                             |
|                                                                          | 2 to 4 #20                        | 4 #20 w/1 #22                     |                                        |                                             |
|                                                                          | 3 or 4 #22                        | 3 #20 w/1 or 2 #22                |                                        |                                             |
|                                                                          | 5 #22 solid                       | 2 #20 w/1 to 3 #22                |                                        |                                             |
|                                                                          | 1 #14 w/1 #20 or 22               | 1 #20 w/1 to 4 #22                |                                        |                                             |
|                                                                          | 1 #16 w/1 #18                     | 1 #16 w/1 #20 w/1 #18 or #20      |                                        |                                             |
|                                                                          | 1 #16 w/1 or 2 #20                | 1-2 #18 w/1 #20 w/1 #22           |                                        |                                             |
|                                                                          | 1 #16 w/1 to 3 #22                |                                   |                                        |                                             |
| Model                                                                    | 300 Volt Maximum                  |                                   | 600 Volt Maximum                       |                                             |
| WT2 Strip<br>wires<br>3/8"; strip<br>wires #16<br>and<br>smaller 1/2"    | 1 #14 Stranded only               | 1 #16 w/1 to 3 #18                |                                        |                                             |
|                                                                          | 1 #16 Stranded only               | 1 #16 w/1 #18 w/1 #20             |                                        |                                             |
|                                                                          | 2 or 3 #16                        | 1 #16 w/1 to 4 #20 or #22         |                                        |                                             |
|                                                                          | 1 #18 Stranded only               | 4 #18 w/1 #20 or #22              |                                        |                                             |
|                                                                          | 2 to 4 #18                        | 3 #18 w/1 or 2 #20 or #22         |                                        |                                             |
|                                                                          | 3 to 5 #20                        | 2 #18 w/1 to 3 #20 or #22         |                                        |                                             |
|                                                                          | 1 #14 w/1 #16                     | 1 #18 w/2 to 4 #20                |                                        |                                             |
|                                                                          | 1 #14 w/1 or 2 #18                | 1 #18 w/3 or 4 #22                |                                        |                                             |
|                                                                          | 1 #14 w/1 to 3 #20                | 4 #20 w/1 #22                     |                                        |                                             |
|                                                                          | 1 #14 w/1 to 4 #22                | 3 #20 w/1 or 2 #22                |                                        |                                             |
|                                                                          | 2 #16 w/1 #18                     | 2 #16 w/1 #20 w/1 #22             |                                        |                                             |
|                                                                          | 2 #16 w/1 or 2 #20                | 1 #16 w/1 #22 w/1 #18 or #20      |                                        |                                             |
|                                                                          | 2 #16 w/1 to 3 #22                | 1 or 2 #18 w/1 #20 w/1 #22        |                                        |                                             |
|                                                                          |                                   |                                   |                                        |                                             |
|                                                                          |                                   |                                   |                                        |                                             |
| Buchanan WireTwist™ Wire Connectors                                      |                                   |                                   |                                        |                                             |
| Model                                                                    | 300 Volt Maximum                  |                                   | 600 Volt Maximum                       |                                             |
| WT3<br>Strip wires<br>5/16";<br>strip wires<br>#16 and                   | 5 #18                             | 2 #16 w/2 or 3 #18                | 1 or 2 #14                             | 2 #16 w/1 or 2 #22                          |
|                                                                          | 5 #22                             | 2 #16 w/3 #22                     | 1 #16 Stranded only                    | 1 #16 w/1 or 2 #18                          |
|                                                                          | 3 or 4 #16                        | 2 #16 w/3 #20                     | 2 #16                                  | 1 #16 w/1 to 3 #20 or #22                   |
|                                                                          | 4 or 5 #20                        | 1 #16 w/4 #18                     | 1 #18 Stranded only                    | 3 #18 w/1 #20 or #22                        |
|                                                                          | 2 #14 w/2 #16                     | 4 #18 w/1 #20 or #22              | 2 to 4 #18                             | 2 #18 w/1 or 2 #20                          |
|                                                                          | 2 #14 w/1 to 3 #20 or #22         | 3 #18 w/2 #20 or #22              | 1 #14 w/1 #16                          | 2 #18 w/1 to 3 #22                          |
|                                                                          |                                   |                                   |                                        |                                             |

P-5560 Revised 8/29/2023



**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

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|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| smaller<br>3/8"                                                                  | 1 #14 w/2 #16<br>1 #14 w/3 #18<br>1 #14 w/4 #20<br>4 #16 w/1 #20 or #22<br>3 #16 w/1 #18<br>3 #16 w/1 or 2 #20 or #22                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 #18 w/3 #22<br>1 #18 str. w/5 #22 str.<br>4 #20 w/1 #22<br>3 #20 w/1 or 2 #22<br>2 #20 w/2 or 3 #22<br>1 #20 w/4 #22 | 1 #14 w/1 #16 and 1 #18<br>1 #14 w/1 or 2 #18<br>1 #14 w/1 to 3 #20<br>1 #14 w/1 to 3 #22<br>2 #16 w/1 #18<br>2 #16 w/1 or 2 #20                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 #18 w/2 to 4 #20<br>1 #18 w/3 or 4 #22<br>1 or 2 #16 w/1 #20 w/1 #22<br>1 #16 w/1 #18 w/1 #22<br>1 or 2 #18 w/1 #20 w/1 #22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Model</b>                                                                     | <b>300 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>WT4</b><br>Strip wires<br>3/8"; strip<br>wires #16<br>and<br>smaller<br>7/16" | 2 #10<br>3 #12<br>5 #16 or #18<br>1 #10 w/3 or 4 #16<br>1 #10 w/2 #14<br>1 #10 w/1 #16 w/4 #20<br>1 #10 w/1 #16 w/3 or 4 #18<br>1 #10 w/1 #14 w/4 #22<br>1 #10 w/1 #14 w/3 #20<br>1 #10 w/1 #14 w/2 to 4 #18<br>1 #10 w/1 #14 w/2 #16<br>1 #10 w/2 #14 w/1 #16<br>1 #10 w/1 #12 w/1 or 2 #18<br>1 #10 w/1 #12 w/1 #16 or #14<br>1 #12 w/3 #14<br>2 #12 w/1 or 2 #14<br>2 #12 w/3 #18<br>1 #14 w/4 #18 or #16<br>2 #14 w/3 #18 or #16<br>3 #14 w/2 #18 or #16<br>3 #14 w/1 #18 w/2 #20<br>4 #14 w/1 or 2 #16<br>1 #16 w/4 #18<br>2 #16 w/3 #18<br>3 #16 w/2 #18<br>4 #16 w/1 #18 |                                                                                                                        | 1 #8<br>1 #10<br>1 or 2 #12<br>1 to 3 #14<br>2 to 5 #16<br>2 to 6 #18<br>3 or 4 #20<br>4 #22<br>1 #10 w/1 #14<br>1 #10 w/1 #12<br>1 #12 w/1 to 4 #20, #18, or #16<br>1 #12 w/1 or 2 #14<br>2 #12 w/1 or 2 #18<br>2 #12 w/1 #16<br>1 #14 w/2 to 4 #20<br>1 #14 w/1 to 3 #18 or #16<br>2 #14 w/1 to 3 #20<br>2 #14 w/1 or 2 #18 or #16<br>3 #14 w/1 or 2 #20<br>3 #14 w/1 #18 or #16<br>4 #14 w/1 #20 or #18<br>1 #16 w/4 #20<br>1 #16 w/1 to 3 #18 or #20<br>1 #16 w/2 #22<br>2 #16 w/1 to 3 #20<br>2 #16 w/1 or 2 #18<br>2 #14 w/1 #16 w/1 to 3 #22<br>3 #16 w/1 or 2 #22 or #20 | 3 #16 w/1 #18<br>4 #16 w/1 #22 or #20<br>1 #18 w/2 #20<br>1 #18 w/3 #22<br>2 #18 w/3 #20<br>3 #18 w/1 or 2 #22 or #20<br>4 #18 w/1 #22 or #20<br>2 #12 w/1 #18 w/1 or 2 #20<br>1 #14 w/1 #16 w/1 to 4 #22<br>2 #14 w/1 or 2 #20 w/1 or 2 #22<br>3 #14 w/1 #18 w/1 or 2 #22<br>3 #14 w/1 #18 w/1 #20<br>1 #16 w/1 #20 w/4 #22<br>1 #16 w/1 #18 w/3 or 4 #22<br>1 #16 w/1 #18 w/2 to 4 #20<br>2 #16 w/1 or 2 #20 w/1 or 2 #22<br>3 #16 w/1 #18 w/1 or 2 #22 or #20<br>1 #18 w/2 #20 w/3 #22<br>2 #18 w/1 #20 w/3 #22<br>3 #18 w/1 or 2 #20 w/1 #22<br>1 #10 w/1 #16 w/1 or 2 #18<br>1 #10 w/1 #14 w/1 or 2 #20<br>1 #10 w/1 #14 w/1 #18<br>1 #12 w/1 #16 w/1 to 4 #20 or #18 |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| Buchanan WireTwist™ Wire Connectors                                           |                                   |                            |                                         |                                   |
|-------------------------------------------------------------------------------|-----------------------------------|----------------------------|-----------------------------------------|-----------------------------------|
| Model                                                                         | 300 Volt Maximum                  |                            | 600 Volt Maximum                        |                                   |
| <b>WT6</b><br>Strip wires<br>7/16";<br>strip wires<br>#16 and<br>smaller 1/2" | 2 #8 stranded only                | 2 #10 w/1 #12 w/1 to 3 #18 | 1 #6 or #8                              | 1 #12 w/2 #14 w/1 to 3 #16        |
|                                                                               | 3 #10                             | 2 #10 w/1 #12 w/1 or 2 #16 | 1 or 2 #10                              | 2 #12 w/1 or 2 #18 or #16         |
|                                                                               | 5 #12                             | 3 #10 w/1 #18 or #16       | 1 to 4 #12                              | 1 #8 w/1 or 2 #14                 |
|                                                                               | 1 #6 w/1 #14                      | 2 #12 w/2 #14 w/2 #16      | 2 to 5 #14                              | 2 #12 w/1 to 3 #14                |
|                                                                               | 1 #6 w/1 #12                      | 3 #12 w/2 #14              | 4 to 6 #16                              | 2 #12 w/1 #16 w/1 to 3 #20        |
|                                                                               | 1 #6 w/1 #14 w/1 or 2 #18         | 3 #12 w/3 #16              | 1 #8 w/1 #12                            | 2 #12 w/1 #16 w/1 to 3 #18        |
|                                                                               | 1 #6 w/1 #14 w/1 #16              | 3 #12 w/1 #16 w/2 #18      | 1 #10 w/1 to 4 #18 or #16               | 2 #12 w/1 #14 w/1 to 3 #18        |
|                                                                               | 1 #8 w/4 #16                      | 3 #12 w/1 #14 w/1 or 2 #16 | 1 #10 w/1 to 3 #14                      | 2 #12 w/1 #14 w/1 to 3 #16        |
|                                                                               | 1 #8 w/3 #14                      | 3 #12 w/1 #14 w/1 or 2 #18 | 1 #10 w/1 or 2 #12                      | 3 #12 w/1 #14                     |
|                                                                               | 1 #8 w/2 #12                      | 3 #12 w/2 #14 w/1 #16      | 1 #10 w/1 #18 w/1 to 4 #22 or #20       | 3 #12 w/1 or 2 #16 or #18         |
|                                                                               | 1 #8 w/1 #10                      | 4 #12 w/1 #18, #16, or #14 | 1 #10 w/1 #16 w/1 to 4 #20              | 3 #12 w/1 #18 w/1 or 2 #20        |
|                                                                               | 1 #8 w/1 #14 w/4 #18              |                            | 1 #10 w/1 #16 w/1 to 4 #18              | 3 #12 w/1 #16 w/1 or 2 #20        |
|                                                                               | 1 #8 w/1 #12 w/1 to 4 #18 or #16  |                            | 1 #10 w/1 #16 w/1 to 4 #16              | 2 #12 w/2 #14 w/1 #16 or #18      |
|                                                                               | 1 #8 w/1 #12 w/1 or 2 #14         |                            | 1 #10 w/1 #14 w/1 to 4 #16 or #18       | 1 #14 w/3 or 4 #18                |
|                                                                               | 1 #8 w/2 #12 w/1 #16 or #14       |                            | 1 #10 w/2 #14 w/1 or 2 #16              | 1 #14 w/1 #16 w/2 to 4 #20        |
|                                                                               | 1 #8 w/1 #10 w/1 #14 or #12       |                            | 1 #10 w/1 #12 w/1 to 3 #16 or #18       | 1 or 2 #14 w/1 #16 w/1 to 3 #18   |
|                                                                               | 1 #10 w/4 #14                     |                            | 1 #10 w/1 #12 w/1 to 3 #16 or #18       | 2 #14 w/2 to 4 #16                |
|                                                                               | 1 #10 w/3 #12                     |                            | 1 #10 w/1 #12 w/1 or 2 #14              | 2 #14 w/1 #18 w/1 to 3 #22 or #20 |
|                                                                               | 1 #10 w/2 #14 w/3 #16             |                            | 1 #10 w/2 #12 w/1 #16 or #18            | 2 #14 w/1 #16 w/1 to 3 #22 or #20 |
|                                                                               | 1 #10 w/1 #12 w/4 #16             |                            | 2 #10 w/1 to 3 #18                      | 3 #14 w/1 or 2 #18 or #16         |
|                                                                               | 1 #10 w/1 #12 w/3 or 4 #14        |                            | 2 #10 w/1 or 2 #16                      | 3 #14 w/1 #16 w/1 or 2 #20        |
|                                                                               | 1 #10 w/2 #12 w/2 or 3 #18 or #16 |                            | 2 #10 w/1 #14                           | 3 #14 w/1 #16 w/1 or 2 #18        |
|                                                                               | 1 #10 w/2 #12 w/1 or 2 #14        |                            | 2 #10 w/1 #16 w/1 #18                   | 1 #16 w/4 #18                     |
|                                                                               | 2 #10 w/3 #16                     |                            | 2 #10 w/1 #14 w/1 #20                   | 2 #16 w/3 or 4 #18                |
|                                                                               | 2 #10 w/2 or 3 #14                |                            | 1 #12 w/2-4 #20 or #18                  | 2 #16 w/1 #18 w/3 #22             |
|                                                                               | 2 #10 w/1 or 2 #12                |                            | 1 #12 w/1 to 4 #16 or #14               | 2 #16 w/1 #18 w/2 or 3 #20        |
|                                                                               | 2 #10 w/1 #16 w/2 or 3 #18        |                            | 1 #12 w/1 #16 w/1 to 4 #20              | 3 #16 w/1 or 2 #20 or #18         |
|                                                                               | 2 #10 w/1 #14 w/1 to 3 #18        |                            | 1 #12 w/1 #16 w/1 to 4 #18              | 4 #16 w/1 #20 or #18              |
|                                                                               | 2 #10 w/2 #14 w/1 #16             |                            | 1 #12 w/1 #14 w/1 to 4 #20, #18, or #16 |                                   |
| Buchanan WingTwist™ Wire Connectors                                           |                                   |                            |                                         |                                   |
| Model                                                                         | 600 Volt Maximum                  |                            |                                         |                                   |
| <b>WT51</b><br>Strip wires<br>3/8"                                            | 1 #10                             | 3 #16 w/1 to 3 #18         | 3 #14 w/1 or 2 #18                      | 2 #12 w/1 or 2 #18                |
|                                                                               | 1 to 3 #12 or #14                 | 4 #16 w/1 or 2 #18         | 3 #14 w/1 #16 or #18                    | 2 #12 w/1 #16 or #14              |
|                                                                               | 2 to 4 #16 or #18                 | 1 #14 w/1 to 5 #18         | 1 #12 w/1 to 5 #18                      | 1 #10 w/1 to 3 #18                |
|                                                                               | 1 #16 w/1 to 5 #18                | 1 #14 w/1 to 4 #16         | 1 #12 w/1 to 3 #16                      | 1 #10 w/1 or 2 #16 or #14         |
|                                                                               | 2 #16 w/1 to 4 #18                | 2 #14 w/1 to 3 #18 or #16  | 1 #12 w/1 or 2 #14                      | 1 #10 w/1 #12                     |

**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| <b>Buchanan WingTwist™ Wire Connectors</b> |                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                               | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>WT41</b><br>Strip wires<br>1/2"         | 1 to 3 #10<br>4 #12 solid<br>1 to 3 #12<br>1 to 5 #14<br>2 to 6 #20, #18, or #16<br>3 to 6 #22<br>1 #22 solid w/1 #20 solid<br>1 #22 w/2 to 5 #20<br>1 #22 w/1 to 5 #18, #16<br>2 #22 w/1 to 4 #20, #18 or #16<br>3 #22 w/1 to 3 #20, #18 or #16<br>4 #22 w/1 or 2 #2, #18 or #16<br>1 #20 w/1 to 4 #18, #16 or #14<br>2 #20 w/1 to 3 #18, #16 or #14<br>3 #20 w/1 or 2 #18, #16 or #14 | 4 #20 w/1 or 2 #18, #16 or #14<br>1 #16 stranded<br>1 #18 w/1 to 4 #16, #14 or #12<br>1 #18 w/1 or 2 #10<br>2 #18 w/1 to 4 #16 or #14<br>2 #18 w/1 to 3 #12<br>2 #18 w/1 or 2 #10<br>3 #18 w/1 to 3 #16, #14 or #12<br>3 #18 w/1 or 2 #10<br>4 #18 w/1 or 2 #16, #14 or #12<br>4 #18 w/1 #10<br>5 #18 w/1 #16 or #14<br>1 #16 w/1 to 4 #14 or #12<br>1 #16 w/1 or 2 #10<br>2 #16 w/1 to 4 #14 | 2 #16 w/1 to 3 #12 or #14<br>3 #16 w/1 or 2 #12 or #10<br>4 #16 w/1 or 2 #14 or #12<br>4 #16 w/ 1 #10<br>5 #16 w/1 #14<br>5 #16 solid w/1 #10 solid<br>1 #14 solid w/1 to 3 #12<br>1 #14 w/1 or 2 #10<br>2 #14 w/1 or 2 #12<br>2 #14 w/ 1 or 2 #12<br>2 #14 w/ 1 #8<br>3 #14 w/1 #12 or #10<br>3 #14 w/2 #12<br>4 #14 w/1 #12 or #10<br>1 #12 w/1 or 2 #10 | 1 #12 w/1 #8<br>2 #12 w/1 #10<br>1 #10 w/1 #8<br>1 #22 w/1 #18 w/1 #16<br>1 #22 w/1 #20 w/1 or 2 #16<br>1 #16 w/ 1 or 2 #14 w/1 #12 or #10<br>1 #16 w/1 #12 w/1 #10<br>2 #16 w/1 #14 w/1 or 2 #12<br>2 #16 w/2 #14 w/1 #12<br>2 #16 w/1 #12 w/1 #10<br>3 #16 w/1 #14 w/1 #12 or #10<br>4 #16 w/1 #12 w/1 #10<br>1 #14 w/1 or 2 #12 w/1 #10<br>2 #14 w/1 #12 w/1 #10 |
| <b>Model</b>                               | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>WT52</b><br>Strip wires<br>1/2"         | 2 to 3 #10<br>2 to 5 #12<br>2 to 6 #14<br>4 to 6 #16<br>6 #18<br>1 #12 w/5 #14<br>1 #12 w/4 #16 or #14<br>1 #12 w/2 #14<br>1 #12 w/1 #14<br>1 #10 w/3 #14<br>1 #10 w/4 #14<br>1 #10 w/2 #14                                                                                                                                                                                             | 1 #10 w/1 #12<br>1 #8 w/1 #10, #12, or #14<br>1 #10 w/2 to 5 #18<br>1 #10 w/1 to 4 #16<br>1 #10 w/1 or 2 #14 or #12<br>1 #10 w/1 #14 and 1 to 3 #16<br>1 #10 w/2 #14 and 1 #16<br>1 #10 w/1 #12 and 1 #14<br>1 #10 w/1 #12 and 1 or 2 #16<br>2 #10 w/1 or 2 #16<br>2 #10 w/1 #14<br>1 #12 w/2 to 5 #18                                                                                        | 1 #12 w/1 to 5 #16<br>1 #12 w/1 to 4 #14<br>1 #12 w/1 #14 and 1 to 4 #16<br>1 #12 w/2 #14 and 1 or 2 #16<br>2 #12 w/3 or 4 #18<br>2 #12 w/1 to 3 #16<br>2 #12 w/1 to 3 #14<br>2 #12 w/1 #14 and 1 or 2 #16<br>3 #12 w/1 or 2 #16<br>3 #12 w/2 #18<br>1 #14 w/3 to 5 #18<br>1 #14 w/3 #12                                                                   | 1 #14 w/2 to 5 #16<br>2 #14 w/1 to 4 #18 or #16<br>3 #14 w/1 to 3 #16<br>4 #14 w/1 or 2 #18<br>4 #14 w/1 #16<br>5 #14 w/1 #18<br>1 #16 w/4 or 5 #18<br>2 #16 w/2 to 4 #18<br>3 #16 w/1 to 3 #18<br>4 #16 w/1 or 2 #18<br>5 #16 w/1 #18                                                                                                                              |
| <b>Model</b>                               | <b>600 Volt Maximum</b>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>WT53</b><br>Strip wires<br>1/2"         | 1 #6<br>2 #8<br>2 or 3 #10<br>2 to 6 #12<br>4 to 6 #14<br>4 #16 w/2 #18<br>1 #14 w/4 or 5 #16<br>2 #14 w/3 or 4 #18<br>2 #14 w/2 to 4 #16<br>3 #14 w/1 to 3 #18 or #16<br>4 #14 w/1 or 2 #18 or #16<br>5 #14 w/1 #18 or #16                                                                                                                                                             | 1 #12 w/3 to 5 #16<br>1 #12 w/2 to 5 #14<br>2 #12 w/3 or 4 #18<br>2 #12 w/1 to 4 #16 or #14<br>3 #12 w/1 to 3 #18 or #16<br>3 #12 w/1 to 3 #14<br>4 #12 w/1 or 2 #16<br>1 #10 w/1 to 5 #16 or #14<br>1 #10 w/1 to 4 #12<br>2 #10 w/2 to 4 #18 or #16<br>2 #10 w/1 to 4 #14<br>2 #10 w/1 or 2 #12                                                                                              | 3 #10 w/1 #14 or #12<br>1 #8 w/1 to 5 #14<br>1 #8 w/1 to 3 #12<br>1 #8 w/1 or 2 #10<br>2 #8 w/1 #14<br>1 #6 w/1 #10<br>1 #12 w/1 #14 w/1 to 4 #16<br>1 #12 w/2 #14 w/1 #16<br>2 #12 w/1 #14 w/1 or 2 #16<br>1 #10 w/1 #14 w/1 to 3 #16<br>1 #10 w/2 #14 w/1 #16<br>1 #10 w/1 #12 w/1 or 2 #6                                                               | 1 #10 w/1 #12 w/1 to 4 #14<br>1 #10 w/2 #12 w/1 to 3 #14<br>1 #10 w/3 #12 w/1 #14<br>2 #10 w/2 #12 w/1 or 2 #14<br>1 #8 w/1 #12 w/1 to 3 #14<br>1 #8 w/2 #12 w/1 #14<br>1 #8 w/1 #10 w/1 or 2 #14<br>1 #8 w/1 #10 w/1 #12                                                                                                                                           |



# **UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

**UL File No. E5238**

**Page 16**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| Buchanan WingTwist™ Wire Connectors |                                        |                                         |                                   |                            |
|-------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------|----------------------------|
| Model                               | 600 Volt Maximum                       |                                         |                                   |                            |
| <b>WT54</b><br>Strip wires<br>5/8"  | 1 or 2 #6                              | 2 #8 w/1 to 4 #14                       | 2 #10 w/3 #12 w/1 #14             | 2 #8 w/3 #12 w/1 #14       |
|                                     | 2 or 3 #8                              | 2 #8 w/1 to 3 #12                       | 3 #10 w/1 #12 w/1 or 2 #14        | 2 #8 w/1 #10 w/1 to 3 #14  |
|                                     | 2 to 5 #10                             | 2 #8 w/1 or 2 #10                       | 3 #10 w/2 #12 w/1 #14             | 2 #8 w/1 #10 w/1 or 2 #12  |
|                                     | 3 to 6 #12                             | 3 #8 w/1 or 2 #14                       | 4 #10 w/1 #12 w/1 #14             | 2 #8 w/2 #10 w/1 #14 Sol   |
|                                     | 5 or 6 #14                             | 1 #6 w/1 to 4 #14                       | 1 #8 w/1 #12 w/1 to 4 #14         | 1 #6 w/1 #12 w/1 to 4 #14  |
|                                     | 1 #12 w/4 or 5 #14                     | 1 #6 w/1 to 5 #12                       | 1 #8 w/2 #12 w/1 to 3 #14         | 1 #6 w/2 #12 w/1 to 3 #14  |
|                                     | 2 #12 w/2 to 4 #14                     | 1 #6 w/1 to 3 #10                       | 1 #8 w/3 #12 w/1 or 2 #14         | 1 #6 w/3 #12 w/1 or 2 #14  |
|                                     | 3 #12 w/1 to 3 #14                     | 1 #6 w/1 or 2 #8                        | 1 #8 w/4 #12 w/1 #14              | 1 #6 w/4 #12 w/1 #14       |
|                                     | 4 #12 w/1 #14                          | 2 #6 w/1 #14                            | 1 #8 w/1 #10 w/1 to 4 #14         | 1 #6 w/1 #10 w/1 to 4 #14  |
|                                     | 1 #10 w/3 to 5 #14                     | 2 #6 w/1 #12                            | 1 #8 w/1 #10 w/1 to 4 #12         | 1 #6 w/1 #10 w/1 to 3 #12  |
|                                     | 1 #10 w/2 to 4 #14                     | 1 #10 w/1 #12 w/1 to 4 #14              | 1 #8 w/2 #10 w/1 to 3 #14         | 1 #6 w/2 #10 w/1 or 2 #14  |
|                                     | 2 #10 w/1 to 4 #14 or #12              | 1 #10 w/2 #12 w/1 to 3 #14              | 1 #8 w/2 #10 w/1 to 3 #12         | 1 #6 w/2 #10 w/1 #12       |
|                                     | 3 #10 w/1 to 3 #14 or #12              | 1 #10 w/3 #12 w/1 or 2 #14              | 1 #8 w/3 #10 w/1 or 2 #14         | 1 #6 w/1 #8 w/1 to 3 #14   |
|                                     | 4 #10 w/1 or 2 #14 or #12              | 1 #10 w/4 #12 w/1 #14                   | 1 #8 w/3 #10 w/1 #12              | 1 #6 w/1 #8 w/1 or 2 #12   |
|                                     | 1 #8 w/1 to 5 #14 or #12               | 2 #10 w/1 #12 w/1 to 3 #14              | 2 #8 w/1 #12 w/1 to 3 #14         | 1 #6 w/1 #8 w/1 #10        |
|                                     | 1 #8 w/1 to 4 #10                      | 2 #10 w/2 #12 w/1 or 2 #14              | 2 #8 w/2 #12 w/1 or 2 #14         |                            |
| IDEAL Set Screw Wire Connectors     |                                        |                                         |                                   |                            |
| Model                               | 300 Volt Maximum                       |                                         |                                   |                            |
| <b>10</b>                           | 1 #10 or #12                           | 2 #14 str. w/1 #16 w/1 #20 or #22       | 2 #14 str. w/1 or 2 #22           | 2 #18 w/1 #20 w/1 or 2 #22 |
|                                     | 1 or 2 #14                             | 1 #14 str. w/1 #16 w/1 #18, #20, or #22 | 1 #16 w/1 to 5 #20 or #22         | 3 #18 w/1 to 4 #22         |
|                                     | 2 to 4 #16                             | 2 #14 w/1 or 2 #18                      | 1 #16 w/1 to 4 #18                | 3 #18 w/1 to 3 #20         |
|                                     | 2 to 6 #18 or #20                      | 1 #14 w/1 to 3 #18                      | 1 #16 w/1 #20 w/1 or 2 #22        | 3 #18 w/1 #20 w/1 or 2 #22 |
|                                     | 4 to 6 #22                             | 2 #14 str. w/1 #18 or #20 w/1 or 2 #22  | 1 #16 w/1 #18 w/1 or 2 #22 2      | 4 #18 w/1 or 2 #20 or #22  |
|                                     | 1 #10 str. w/1 #20                     | 1 #14 str. w/1 #18 or #20 w/1 or 2 #22  | #16 w/1 to 4 #20 or #22           | 4 #18 w/1 #20 w/1 or 2 #22 |
|                                     | 1 #10 str. w/1 or 2 #22                | 1 #14 str. w/1 #18 or #20 w/1 or 2 #22  | 2 #16 w/1 to 3 #18                | 5 #18 w/1 #20 w/1 or 2 #22 |
|                                     | 1 #12 str. w/1 #14                     | 2 #14 w/1 to 3 #20                      | 3 #16 w/1 #18 or #20 w/1 or 2 #22 | 1 #20 w/1 to 5 #22         |
|                                     | 1 #12 str. w/1 #16 w/1 #18             | 1 #14 w/3 to 5 #20                      | #22                               | 2 #20 w/1 to 4 #22         |
|                                     | 1 #12 str. w/1 or 2 #18 or #20         | 1 #14 str. w/1 or 2 #20                 | 3 #16 w/1 to 3 #20 or #22         | 3 #20 w/1 to 3 #22         |
|                                     | 1 #12 str. w/1 #18 or #20 w/1 or 2 #22 | 1 #14 str. w/2 to 5 #22                 | 4 #16 w/1 #18, #20 or #22         | 4 #20 w/1 or 2 #22         |
|                                     | 1 #12 w/3 or 4 #20 or #22              | 2 #14 w/3 or 4 #22                      | 4 #16 w/1 #20 w/1 #22             | 5 #20 w/1 #22              |
|                                     | 2 #14 w/1 #16                          |                                         | 1 #18 w/1 to 5 #20 or #22         | 3 #16 w/1 or 2 #18         |
|                                     | 1 #14 w/1 or 2 #16                     |                                         | 1 #18 w/1 #20 w/1 or 2 #22 2      |                            |
|                                     |                                        |                                         | #18 w/1 to 4 #20 or #22           |                            |
| Model                               | 600 Volt Maximum                       |                                         |                                   |                            |
| <b>11</b>                           | 1 #10                                  | 2 #12 w/1 or 2 #18                      | 2 #16 w/1 to 5 #22                | 3 #18 w/1 to 3 #20         |
|                                     | 2 #12                                  | 3 #14 w/5 #22                           | 2 #16 w/2 to 5 #20                | 4 #18 w/1 to 5 #22         |
|                                     | 2 or 3 #14                             | 3 #14 w/3 #20                           | 2 #16 w/1 to 4 #18                | 4 #18 w/1 or 2 #20         |
|                                     | 4 or 5 #16                             | 1 #14 w/2 to 5 #22                      | 3 #16 w/1 to 5 #22                | 5 #18 w/1 to 5 #22         |
|                                     | 1 #10 str. w/1 or 2 #16, #18 or #20    | 1 #14 w/1 to 5 #18 or #20               | 3 #16 w/1 to 4 #20                | 5 #18 w/1 #20              |
|                                     | 1 #10 w/3 or 4 #18                     | 1 #14 w/1 to 4 #16                      | 3 #16 w/1 to 3 #18                | 1 #20 w/4 or 5 #22         |
|                                     | 1 #10 w/3 #16                          | 2 #14 w/1 to 5 #20 or #22               | 4 #16 w/1 to 5 #22                | 2 or 4 #20 w/3 to 5 #22    |
|                                     | 1 #12 w/4 #18                          | 2 #14 w/1 to 4 #18                      | 4 #16 w/1 or 2 #18 or #20         | 5 #20 w/1 to 5 #22         |
|                                     | 1 #12 w/2 #14                          | 2 #14 w/1 to 3 #16                      | 5 #16 w/1 to 4 #22                |                            |
|                                     | 1 #12 w/1 #16                          | 3 #14 w/1 to 3 #22                      | 5 #16 w/1 #18 or 1 #20            |                            |
|                                     | 1 #12 w/3 to 5 #20                     | 3 #14 w/1 or 2 #18 or #20               | 6 or 7 #18                        |                            |
|                                     | 1 #12 w/1 to 3 #16 or #18              | 3 #14 w/1 #16                           | 1 #18 w/4 or 5 #20 or #22         |                            |
|                                     | 1 #12 w/1 #14                          | 1 #16 w/4 or 5 #22                      | 2 #18 w/2 to 5 #22                |                            |
|                                     | 2 #12 w/2 or 3 #20                     | 1 #16 w/3 to 5 #20                      | 2 #18 w/3 or 4 #20                |                            |
|                                     |                                        | 1 #16 w/2 to 5 #18                      | 3 #18 w/1 to 5 #22                |                            |
|                                     |                                        |                                         |                                   |                            |



**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Set Screw Wire Connectors |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                           | 600 Volt Maximum                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
| <b>22</b>                       | 1 or 2 #10<br>2 to 4 #12<br>2 to 6 #14<br>4 to 6 #16<br>2 to 6 #18<br>1 #10 str. w/3 to 5 #20<br>1 #10 w/3 to 5 #18<br>1 #10 w/2 to 5 #16<br>1 #10 w/1 to 4 #14<br>1 #10 w/1 or 2 #12                                                | 2 #10 w/2 to 4 #20<br>2 #10 w/1 to 3 #18<br>2 #10 w/1 or 2 #16<br>2 #10 w/1 #14<br>2 #10 w/1 #12<br>1 #12 w/3 to 5 #18<br>1 #12 w/2 to 5 #16<br>1 #12 w/1 to 5 #14<br>2 #12 w/1 to 4 #18<br>2 #12 w/1 to 4 #16                                               | 2 #12 w/1 to 4 #14<br>3 #12 w/1 to 3 #18<br>3 #12 w/1 or 2 #16<br>3 #12 w/1 #14<br>1 #14 w/3 to 5 #18<br>1 #14 w/2 to 5 #16<br>2 #14 w/2 to 4 #20<br>2 #14 w/1 to 4 #16<br>3 #14 w/2 or 3 #20<br>3 #14 w/1 to 3 #16                                                                                     | 4 #14 w/1 or 2 #16<br>5 #14 w/1 #16<br>1 #16 w/3 to 5 #18<br>2 #16 w/2 to 4 #18<br>3 #16 str. w/1 or 3 #18 str.<br>4 #16 w/1 or 2 #18<br>5 #16 w/1 #18                                     |
| IDEAL Crimp Connectors          |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
| Model                           | 600 Volt Maximum                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
| <b>48 Crimp</b>                 | 1 to 3 #16<br>1 to 4 #18<br>1 to 5 #20<br>1 to 6 #22<br>1 #14 w/1 to 3 #22<br>1 #14 w/1 to 3 #20<br>1 #14 w/1 or 2 #18<br>1 #14 w/1 #16<br>1 #14 w/1 #18 w/1 to 3 #22<br>1 #14 w/1 #18 w/1 or 2 #20<br>1 #14 w/1 #18 w/1 #20 w/1 #22 | 1 #16 w/1 to 5 #22<br>1 #16 w/1 to 4 #20<br>1 #16 w/1 to 3 #18<br>1 #16 w/2 #22<br>1 #16 w/1 #18 w/1 #22<br>1 #16 w/2 #18 w/1 #20<br>1 #16 w/2 #18 w/1 or 2 #22<br>1 #16 w/1 #18 w/1 #20 w/1 #22<br>1 #16 w/1 #18 w/1 or 2 #20 w/1 #22<br>2 #16 w/1 to 3 #22 | 2 #16 w/1 or 2 #20<br>2 #16 w/1 #18 w/1 #22<br>2 #16 w/1 #20 w/1 #22<br>2 #16 w/1 #18<br>1 #18 w/1 to 5 #20 or #22<br>2 #18 w/1 to 3 #20<br>3 #18 w/1 to 3 #22<br>3 #18 w/1 or 2 #20<br>1 #18 w/1 to 4 #20 w/1 #22<br>1 #18 w/1 #20 w/2 to 4 #22<br>1 #18 w/2 #20 w/2 or 3 #22<br>1 #18 w/3 #20 w/2 #22 | 2 #18 w/1 or 2 #20 w/1 #22<br>2 #18 w/1 #20 w/1 to 3 #22<br>3 #18 w/1 #20 w/1 #22<br>2 #20 w/1 to 4 #22<br>3 #20 w/1 to 3 #22<br>4 #20 w/1 or 2 #22<br>5 #20 w/1 #22<br>1 #20 w/1 to 4 #22 |
| Model                           | 600 Volt Maximum                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
| <b>49 Crimp</b>                 | 1 or 2 #14<br>1 to 4 #16<br>1 to 6 #18<br>1 to 6 #20<br>1 #12 str. w/1 or 2 #18<br>1 #12 str. w/1 #16<br>1 #14 w/1 to 3 #18<br>1 #14 w/1 to 3 #16                                                                                    | 1 #14 w/2 or 3 #20<br>1 #14 w/1 #17 w/ 1 #20<br>1 #16 w/1 to 4 #18<br>1 #16 w/1 to 4 #20<br>1 #16 w/1 #18 w/1 #20<br>2 #16 w/1 or 2 #18<br>2 #16 w/2 or 3 #20<br>3 #16 w/1 #18 w/ 1 #20                                                                      | 1 #17 w/1 #18 w/1 #20 all str.<br>1 #17 w/1 #18 w/1 #20 w/ 1 #22 all str.<br>1 #18 w/1 #22<br>1 #18 w/2 to 4 #20<br>1 or 2 #18 w/1 #20<br>2 #18 w/1 or 4 #20<br>2 #18 w/1 #22                                                                                                                           | 3 #18 w/1 #22<br>4 #18 w/1 #22<br>1 #22<br>1 #20 w/1 #22<br>2 or 3 #22<br>1 #17 w/1 #18 w/1 #20 w/2 #22                                                                                    |
| Model                           | 600 Volt Maximum                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
| <b>NC-8 Stranded Wire Only</b>  | 2 #10<br>2 or 3 #12<br>3 to 5 #14<br>4 to 7 #16<br>7 to 12 #18<br>1 #8 w/1 #14, #16 or #18<br>1 #8 w/2 #18<br>1 #10 w/1 #12                                                                                                          | 1 #10 w/2 #14<br>1 #10 w/1, 2 to 4 #16 (no 3 #16's)<br>1 #10 w/1 to 6 #18<br>1 #12 w/2 to 8 #18<br>1 #12 w/2 to 5 #16<br>1 #12 w/2 or 3 #14<br>2 #12 w/1 to 4 #14                                                                                            | 2 #12 w/1 to 3 #16<br>2 #12 w/2 #14<br>1 #14 w/4 to 10 #18<br>1 #14 w/3 to 6 #16<br>2 #14 w/2 to 7 #18<br>2 #14 w/1 to 4 #16<br>3 #14 w/1 to 5 #18<br>3 #14 w/1 to 3 #16                                                                                                                                | 4 #14 w/1 or 2 #18<br>1 #16 w/5 to 11 #18<br>2 #16 w/4 to 9 #18<br>3 #16 w/2 to 7 #18<br>4 #16 w/1 to 6 #18<br>5 #16 w/1 to 4 #18<br>6 #16 w/1 #18                                         |



**UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| IDEAL Crimp Connectors |                            |                                          |                                 |                                 |
|------------------------|----------------------------|------------------------------------------|---------------------------------|---------------------------------|
| Model                  | 600 Volt Maximum           |                                          |                                 |                                 |
| <b>410</b>             | 2 #10 str                  | 1 #10 w/2 #12                            | 1 #16 w/3 to 7 #18              | 2 #12 w/1 #18 w/4 #16           |
|                        | 2 to 4 #12                 | 1 #10 str. or sol w/1 or 2 or 4 or 7 #18 | 2 #16 w/2 to 8 #18              | 2 #12 w/1 to 3 #18 w/3 #16      |
|                        | 3 to 6 #14                 | (no combinations with 3 #18)             | 3 #16 w/1 to 7 #18              | 2 #12 w/1 to 4 #18 w/2 #16      |
|                        | 2 #14 str.                 | 1 #10 str. or sol w/1 to 6 #16 str.      | 4 #16 w/1 to 5 #18              | 2 #12 w/1 to 5 #18 w/1 #16      |
|                        | 3 to 7 #16                 | 1 #10 str. w/1 to 6 #16 sol              | 5 #16 w/1 to 4 #18              | 3 #12 w/1 or 2 #18 w/1 #16      |
|                        | 5 to 10 #18                | 1 #12 w/1 to 9 #18 or 1 to 7 #16         | 6 #16 w/1 or 2 #18              | 1 #14 w/1 #18 w/6 #16           |
|                        | 1 #14 sol w/1 #14 str.     | 2 #12 w/1 to 6 #18 or 1 to 4 #16         | 7 #16 w/1 #18                   | 1 #14 w/1 or 2 #18 w/5 #16      |
|                        | 1 #10 sol w/1 #10 str.     | 3 #12 w/1 to 3 #18 or #1 or 2 #16        | 1 #10 w/1 #18 w/5 #16           | 1 #14 w/1 to 4 #18 w/4 #16      |
|                        | 1 #14 w/1 to 3 #12         | 1 #14 w/1 to 9 #18                       | 1 #10 w/1 to 3 #18 w/4 #16      | 1 #14 w/1 to 5 #18 w/3 #16      |
|                        | 1 #14 w/1 or 2 #12 w/1 #10 | 1 #14 w/1 to 7 #16                       | 1 #10 w/1 to 4 #18 w/3 #16      | 1 #14 w/1 to 7 #18 w/2 #16      |
|                        | 2 #14 w/1 or 2 #12         | 2 #14 w/1 to 8 #18 or 1 to 5 #16         | 1 #10 w/1 to 6 #18 w/2 #16      | 1 #14 w/1 to 8 #18 w/1 #16      |
|                        | 2 #14 w/1 #10 w/1 #12      | 3 #14 w/1 to 5 #18                       | 1 #10 w/1 to 8 #18 w/1 #16      | 2 #14 w/1 #18 w/4 #16           |
|                        | 3 #14 w/1 or 2 #12         | 3 #14 w/1 to 4 #16                       | 2 #10 w/1 or 2 #16              | 2 #14 w/3 #18 w/3 #16           |
|                        | 3 #14 w/1 #10              | 4 #14 w/1 to 3 #18 or 1 or 2 #16         | 2 #10 w/1 or 2 #18 w/1 #16      | 2 #14 w/5 #18 w/2 #16           |
|                        | 1 #12 w/1 to 4 #14         |                                          | 2 #10 w/1 to 4 #18              | 2 #14 w/7 #18 w/1 #16           |
|                        | 2 #12 w/1 to 3 #14         |                                          | 1 #12 w/1 or 2 #18 w/6 #16      | 3 #14 w/1 or 2 #18 w/3 #16      |
|                        | 2 #12 w/1 #10              |                                          | 1 #12 w/1 to 3 #18 w/5 #16      | 3 #14 w/1 to 4 #18 w/2 #16      |
|                        | 2 #10 w/1 or 2 #14         |                                          | 1 #12 w/1 to 4 #18 w/4 #16      | 3 #14 w/1 to 5 #18 w/1 #16      |
|                        | 2 #10 w/1 #12              |                                          | 1 #12 w/1 to 5 #18 w/3 #16      | 4 #14 w/1 to 2 #18 w/1 #16      |
|                        | 1 #10 w/1 to 4 #14         |                                          | 1 #12 w/1 to 6 #18 w/2 #16      |                                 |
|                        | 1 #10 w/1 #12              |                                          | 1 #12 w/1 to 8 #18 w/1 #16      |                                 |
| Model                  | 600 Volt Maximum           |                                          |                                 |                                 |
| <b>411</b>             | 2 #8                       | 2 #8 w/1 or 2 #14                        | 2 #10 w/1 or 3 #12, #14, or #16 | 3 #12 w/1 or 2 #14, #16, or #18 |
|                        | 2 or 3 #10                 | 1 #8 w/1 or 2 #10                        | 2 #10 w/1 or 3 #18              | 2 #12 w/2 or 3 #14              |
|                        | 4 #10 sol                  | 1 #8 w/1 or 3 #12                        | 1 #10 w/2 or 4 #12              | 2 #12 w/3 #16                   |
|                        | 3 or 5 #12                 | 1 #8 w/1 or 4 #14                        | 1 #10 w/3 or 4 #14              | 1 #12 w/4 #14                   |
|                        | 5 #14                      | 3 #10 w/1 #12                            | 1 #10 w/4 #16                   | 1 #8 w/4 #18                    |
|                        | 2 #8 w/1 #12               | 3 #10 w/1 or 2 #14, #16, or #18          | 4 #12 w/1 #14, #16, or #18      |                                 |
| Model                  | 600 Volt Maximum           |                                          |                                 |                                 |
| <b>412</b>             | 2 #6                       | 1 #6 w/1 or 2 #8                         | 2 #10 w/1 to 5 #12              | 1 #14 w/1 to 6 #16              |
|                        | 2 or 3 #8                  | 1 #6 w/4 #16                             | 3 #10 w/1 to 4 #18, #16, or #14 | 2 #14 w/1 to 5 #18 or #16       |
|                        | 2 to 5 #10                 | 2 #6 w/1 #14 or #12                      | 3 #10 w/1 to 3 #12              | 3 #14 w/2 to 4 #18              |
|                        | 2 to 6 #12                 | 1 #8 w/1 to 5 #14 or #12                 | 4 #10 w/1 to 3 #18, #16, or #14 | 3 #14 w/1 to 3 #16              |
|                        | 2 to 7 #14                 | 1 #8 w/1 to 3 #10                        | 4 #10 w/1 or 2 #12              | 4 #14 w/1 to 3 #18 or #16       |
|                        | 3 to 7 #16                 | 1 #8 w/2 or 3 #16                        | 1 #12 w/1 to 6 #18, #16, or #14 | 5 #14 w/1 or 2 #18 or #16       |
|                        | 5 to 7 #18                 | 1 #8 w/4 #18                             | 2 #12 w/1 to 5 #18 or #16       | 6 #14 w/1 #18 or #16            |
|                        | 1 #4 w/1 to 3 #14          | 2 #8 w/1 to 5 #14                        | 2 #12 w/1 to 5 #14              | 1 #16 w/4 to 6 #18              |
|                        | 1 #4 w/1 or 2 #12          | 2 #8 w/1 to 3 #12                        | 3 #12 w/1 to 3 #18              | 2 #16 w/2 to 5 #18              |
|                        | 1 #4 w/1 #10               | 2 #8 w/1 or 2 #10                        | 3 #12 w/1 to 3 #16              | 3 #16 w/1 to 4 #18              |
|                        | 1 #4 w/1 #8                | 1 #10 w/1 to 6 #18                       | 3 #12 w/1 to 4 #14              | 4 #16 w/1 to 3 #18              |
|                        | 1 #6 w/1 to 6 #14          | 1 #10 w/1 to 6 #16                       | 4 #12 w/1 to 3 #18, #16, or #14 | 5 #16 w/1 or 2 #18              |
|                        | 1 #6 w/1 to 5 #12          | 1 #10 w/1 to 5 #14 or #12                | 5 #12 w/1 or 2 #18, #16, or #14 | 6 #16 w/1 #18                   |
|                        | 1 #6 w/1 to 3 #10          | 2 #10 w/1 to 5 #18, #16, or #14          | 1 #14 w/2 to 6 #18              |                                 |



# **UNDERWRITER'S LABORATORIES LISTED WIRE COMBINATIONS**

**UL File No. E5238**

**Page 19**

Combinations listed on this page are CU/CU Wire only. (Do not use on aluminum wire.) For use on solid and/or stranded wire combinations unless noted otherwise.

| Buchanan Crimp Connectors                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                         | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          |
| 2006S                                                         | 2 #18 Stranded through 10 #18<br>Solid or Stranded<br>#18 w/1 to 6 #16 or 1 to 5 #15 or<br>1 to 3 #12 or 1 #10<br>2 #18 stranded w/1 to 5 #16 or 1<br>to 5 #14 or 1 to 3 #12 or 1 #10<br>3 #18 w/1 to 5 #16 or 1 to 4 #14<br>or 1 or 2 #12<br>4 #18 w/1 to 4 #16 or 1 to 3 #14<br>or 1 or 2 #12 or 1 #10<br>5 #18 w/1 to 3 #16 or 1 or 2 #14<br>or 1 #12 or 1 #10<br>6 #18 w/1 to 3 #16 or 1 or 2 #14<br>or 1 #12<br>7 #18 w/1 or 2 #16 or 1 #14 | 8 #18 w/1 #16<br>2 to 7 #16<br>1 #16 w/1 to 4 #14 or 1 to 3 #12<br>or 1 #10<br>2 #16 w/1 to 3 #14 or 1 or 2 #12<br>or 1 #10<br>3 #16 w/1 or 2 #14 or 1 #12 or 1<br>#10<br>4 #16 w/1 #14 or 1 #12<br>2 to 5 #14<br>1 #14 w/1 to 3 #12 or 1 #10<br>2 #14 w/1 or 2 #12 or 1 #10<br>3 #14 w/1 #12<br>2 to 4 #12<br>1 #12 w/1 #10<br>2 #10 | 1 #14 w/1 #12 and 1 #10<br>2 #14 w/1 #12 and 1 #10<br>1 #10 w/5 #16 and 1 #18<br>1 #10 w/4 #16 and 1 to 3 #18<br>2 #10 w/1 #16 and 1 #18<br>1 #12 w/5 #16 and 1 to 3 #18<br>1 #12 w/4 #16 and 1 to 4 #18<br>1 #12 w/3 #16 and 1 to 5 #18<br>1 #12 w/2 #16 and 1 to 6 #18<br>1 #12 w/1 #16 and 1 to 8 #18<br>2 #12 w/4 #16 and 1 #18<br>2 #12 w/2 #16 and 1 to 4 #18<br>2 #12 w/1 #16 and 1 to 5 #18<br>3 #12 w/1 #16 and 1 or 2 #18<br>1 #14 w/6 #16 and 1 #18<br>1 #14 w/5 #16 and 1 or 2 #18 | 1 #14 w/4 #16 and 1 to 4 #18<br>1 #14 w/3 #16 and 1 to 5 #18<br>1 #14 w/2 #16 and 1 to 7 #18<br>1 #14 w/2 #16 and 1 to 8 #18<br>2 #14 w/4 #16 and 1 #18<br>2 #14 w/3 #16 and 3 #18<br>2 #14 w/2 #16 and 5 #18<br>2 #14 w/1 #16 and 7 #18<br>3 #14 w/3 #16 and 1 or 2 #18<br>3 #14 w/2 #16 and 1 to 4 #18<br>3 #14 w/1 #16 and 1 to 5 #18<br>4 #14 w/1 #16 and 1 or 2 #18 |
| Model                                                         | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          |
| 2011S                                                         | <b>Solid Wire</b><br>4 to 10 #14<br>3 to 6 #12<br>2 to 4 #10<br>2 #8                                                                                                                                                                                                                                                                                                                                                                             | <b>Stranded Wire</b><br>5 to 11 #14<br>3 to 7 #12<br>2 to 5 #10<br>2 or 3 #8<br>2 #6                                                                                                                                                                                                                                                  | <b>Combination Stranded Wire</b><br>1 to 3 #14 w/3 to 5 #12<br>1 to 3 #14 w/3 or 4 #10<br>1 or 2 #12 w/3 or 4 #10<br>1 to 3 #12 w/5 to 8 #14<br>2 or 4 #14 w/1 #8 or 1 #10<br>1 #8 w/1 #10<br>1 #4 w/1 #8 or 1 #10                                                                                                                                                                                                                                                                             | <b>Combination Stranded &amp; Solid</b><br>1 to 3 #14 w/3 to 5 #12<br>1 to 3 #14 w/3 or 4 #10<br>1 or 2 #12 w/3 or 4 #10<br>1 to 3 #12 w/5 to 8 #14<br>1 #4 stranded w/1 #8 or 1 #10<br>1 #6 stranded w/1 #8 or 1 #10<br>1 #8 w/1 #10<br>2 or 4 #14 solid w/1 #8 str.                                                                                                    |
| Model                                                         | 600 Volt Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          |
| 2008S                                                         | 2 to 10 #18<br>1 #18 w/1 to 6 #16 or 1 to 5 #14<br>or 1 to 3 #12 or 1 #10<br>2 #18 w/1 to 5 #16 or 1 to 5 #14<br>or 1 to 3 #12 or 1 #10<br>2 #16 w/1 to 3 #14 or 1 or 2 #12<br>or 1 #10<br>3 #16 w/1 or 2 #14 or 1 #12 or 1<br>#10<br>4 #16 w/1 #14 or 1 #12<br>2 to 5 #14                                                                                                                                                                       | 1 #14 w/1 to 3 #12 or 1 #10<br>2 #14 w/1 or 2 #12 or 1 #10<br>3 #14 w/1 #12<br>2 to 4 #12<br>1 #12 w/1 #10<br>2 #10<br>1 #14 w/1 #12 and 1 #10<br>2 #14 w/1 #12 and 1 #10<br>1 #10 w/5 #16 and 1 #18<br>1 #10 w/4 #16 and 1 to 3 #18<br>2 #10 w/1 #16 and 1 #18                                                                       | 1 #12 w/5 #16 and 1 to 3 #18<br>1 #12 w/4 #16 and 1 to 4 #18<br>1 #12 w/3 #16 and 1 to 5 #18<br>1 #12 w/2 #16 and 1 to 6 #18<br>2 #12 w/1 #16 and 1 or 2 #18<br>1 #14 w/6 #16 and 1 #18<br>1 #14 w/5 #16 and 1 or 2 #18<br>1 #14 w/4 #16 and 1 to 4 #18<br>1 #14 w/3 #16 and 1 to 5 #18<br>1 #14 w/2 #16 and 1 to 7 #18<br>1 #14 w/1 #16 and 1 to 8 #18                                                                                                                                        | 2 #14 w/4 #16 and 1 #18<br>2 #14 w/3 #16 and 3 #18<br>2 #14 w/2 #16 and 5 #18<br>2 #14 w/1 #16 and 7 #18<br>3 #14 w/3 #16 and 1 or 2 #18<br>3 #14 w/2 #16 and 1 to 4 #18<br>3 #14 w/1 #16 and 1 to 5 #18<br>4 #14 w/1 #16 and 1 or 2 #18                                                                                                                                 |
| Term-End Lugs                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          |
| Model                                                         | Solid Wire                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                       | Stranded Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                          |
| 16-8                                                          | 1 or 8 #16<br>1 or 4 #14                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 or 2 #12<br>1 #10                                                                                                                                                                                                                                                                                                                   | 1 or 8 #16<br>1 or 5 #14                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 or 3 #12<br>1 #8                                                                                                                                                                                                                                                                                                                                                       |
| IDEAL Term-A-Nut™ Pigtail Connectors and Grounding Connectors |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          |
| 70<br>Red w/blk<br>or white<br>Green<br>w/grn                 | 2 or 4 #12 or #14<br>4 or 5 #16<br>1 #16 w/3 or 4 #18<br>2 #16 w/2 or 3 #18<br>3 #16 w/1 or 2 #18<br>4 #16 w/1 #18<br>1 #14 w/ 2-3 #18                                                                                                                                                                                                                                                                                                           | 2 #14 w/1 or 2 #18<br>3 #14 w/1 #18<br>1 #14 w/2 or 3 #16<br>2 #14 w/1 or 2 #16<br>3 #14 w/1 #16<br>1 #12 w/2 or 3 #18<br>2 #12 w/1 or 2 #18                                                                                                                                                                                          | 3 #12 w/1 #18<br>1 #12 w/1 or 3 #16<br>2 #12 w/1 or 2 #16<br>3 #12 w/1 #16<br>1 #12 w/1 or 3 #14<br>2 #12 w/1 or 2 #14<br>3 #12 w/ 1 #14                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                          |