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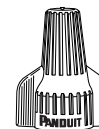
### **P-CONN™ SIDEWINDER™** Screw-on Wire Connectors (Hex Style)

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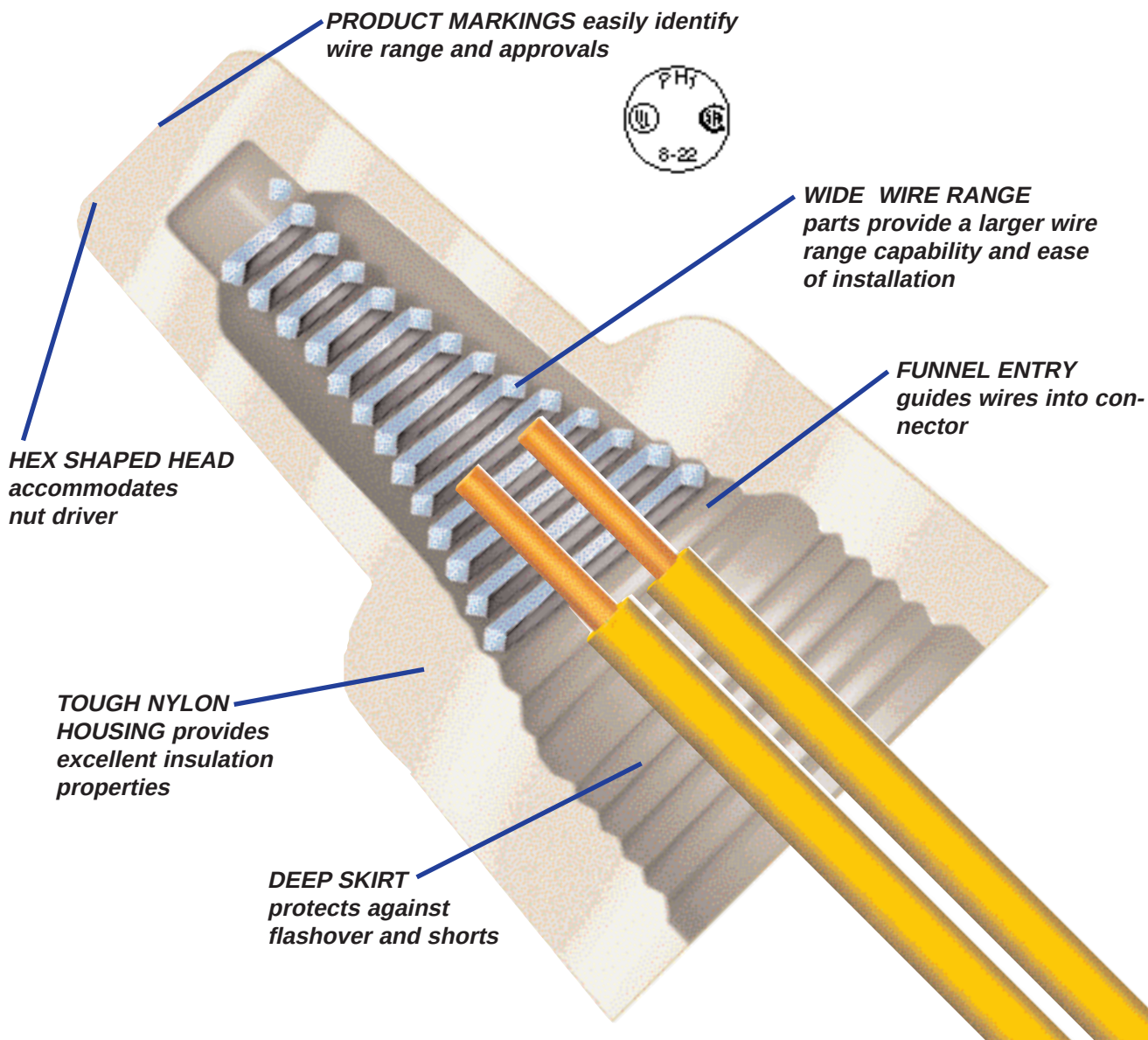
### **PAN-TERM®** Crimp-on Wire Joints .....



## Hex Style . . . Features



- ▲ Ribbed design for easy, comfortable installation
- ▲ Two sizes cover full range of wire sizes and combinations
- ▲ Funnel entry guides wires into connector
- ▲ Tough nylon housing resists breakage
- ▲ Excellent electrical insulation
- ▲ Standard industry colors



SIDEWINDER™ Hex Style

These high-quality connectors provide an expanded wire range capability which can reduce inventory. Twist them on by hand, or utilize a nut driver on the hexagonal shaped head for easy installation. They are UL and CSA approved and designed for optimum performance in a variety of applications.

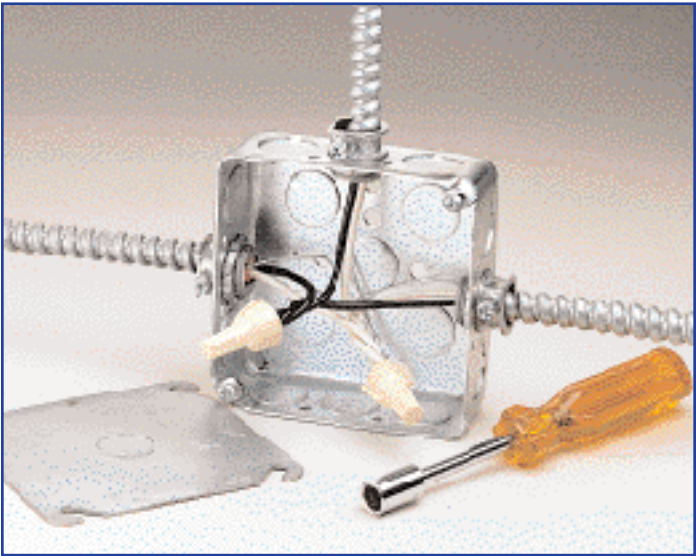


| Insulation Color | Panduit Part Number | Wire Range                 |                           | CMA Range |        | Pkg. Qty./ Type    |
|------------------|---------------------|----------------------------|---------------------------|-----------|--------|--------------------|
|                  |                     | Min.                       | Max.                      | Min.      | Max.   |                    |
| Tan              | PH1-C<br>PH1-D      | (3) #22 AWG                | (5) #12 AWG               | 1,920     | 35,250 | 100 Box<br>500 Bag |
| Gray             | PH2-L<br>PH2-TL     | (1) #12 AWG<br>(1) #14 AWG | (2) #8 AWG<br>(2) #12 AWG | 9,060     | 46,080 | 50 Box<br>250 Bag  |

SIDEWINDER™ Capacity Chart

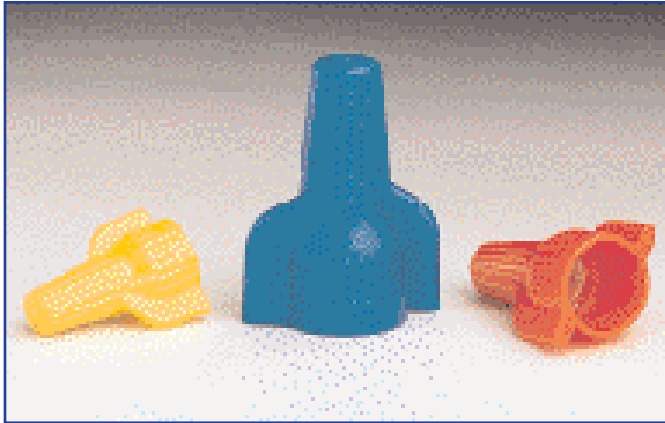
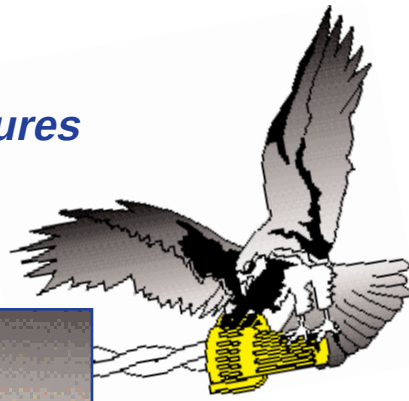
| WIRE COMBINATIONS |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CMA*              | 3 #22 | 3 #20 | 2 #18 | 2 #14 | 2 #12 | 1 #10 | 3 #12 | 3 #10 | 2 #8  | 4 #10 | 2 #6  | 2 #6  |
|                   | 1920  | 3060  | 3240  | 8220  | 13060 | 16850 | 19590 | 30960 | 33020 | 41280 | 52540 | 62860 |
| PH1               |       |       |       |       |       |       |       |       |       |       |       |       |
| PH2               |       |       |       |       |       |       |       |       |       |       |       |       |

\* CMA = Circular Mil Area (See Wire Combination Table, Page 10)



**Hex Shaped Head**  
Makes twisting multiple wires quick and easy with the use of a nut driver.

## HAWK™ Wing Style . . . Features



- ▲ Ribbed grip surface
- ▲ Three convenient sizes, plus grounding wire connectors
- ▲ Funnel entry simplifies installation
- ▲ Tough nylon housing provides excellent electrical insulating properties
- ▲ Available in yellow, red, blue and green

**PRODUCT MARKINGS**  
easily identify wire  
range and approvals



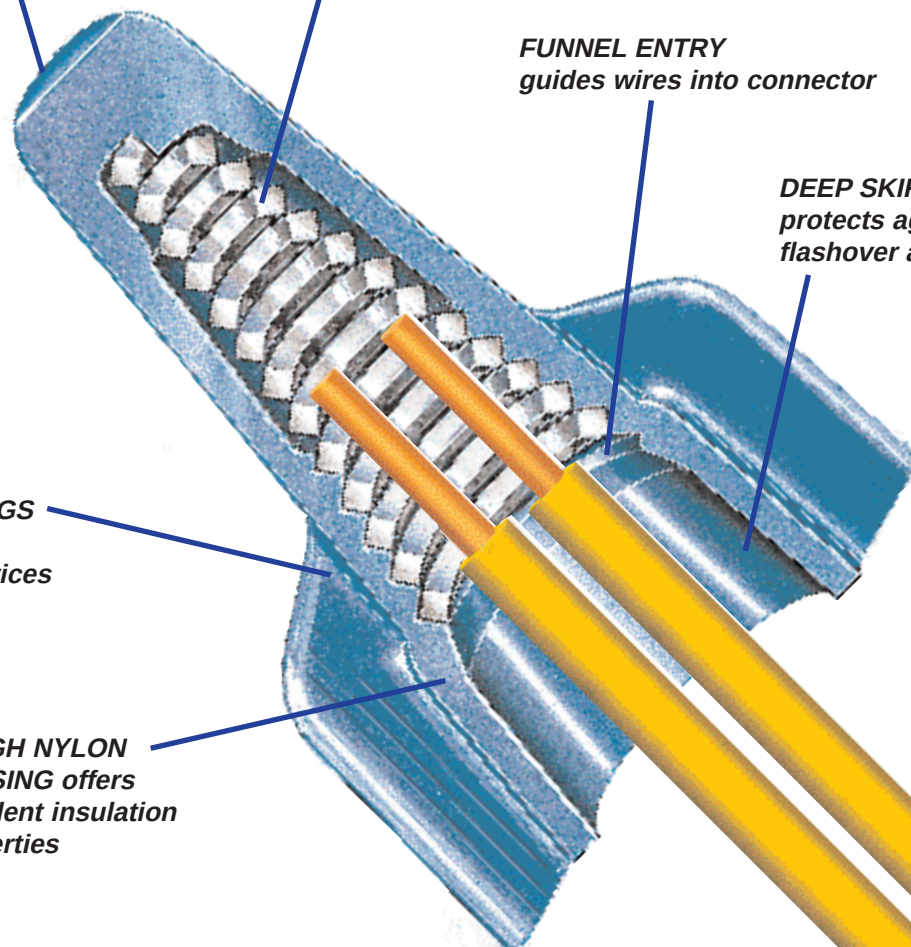
**EXPANDING SQUARE WIRE SPRING**  
ensures low resistance

**FUNNEL ENTRY**  
guides wires into connector

**DEEP SKIRT**  
protects against  
flashover and shorts

**OFFSET WINGS**  
offers large  
gripping services

**TOUGH NYLON  
HOUSING** offers  
excellent insulation  
properties



## HAWK™ Wing Style

These screw-on connectors are both economical and reusable. The wide wire range of each connector minimizes inventory requirements. They save installation time because they do not require any pre-twisting of wires.



LISTED  
587H



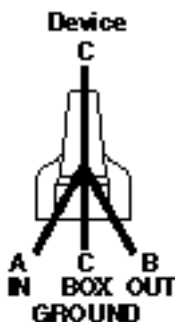
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| Insulation Color | Panduit Part Number | Wire Range                 |                           | CMA Range |        | Pkg. Qty./ Type    |
|------------------|---------------------|----------------------------|---------------------------|-----------|--------|--------------------|
|                  |                     | Min.                       | Max.                      | Min.      | Max.   |                    |
| Yellow           | P1-C<br>P1-D        | (3) #22 AWG                | (3) #12 AWG               | 1,920     | 19,590 | 100 Box<br>500 Bag |
| Red              | P2-C<br>P2-D        | (3) #22 AWG                | (3) #12 AWG<br>(1) #8 AWG | 1,920     | 36,100 | 100 Box<br>500 Bag |
| Blue             | P4-L<br>P4-TL       | (1) #12 AWG<br>(1) #14 AWG | (2) #6 AWG<br>(1) #10 AWG | 10,640    | 62,860 | 50 Box<br>250 Bag  |

|       |                |             |              |       |        |                    |
|-------|----------------|-------------|--------------|-------|--------|--------------------|
| Green | P2G-C<br>P2G-D | (2) #14 AWG | (5) # 12 AWG | 8,220 | 32,650 | 100 Box<br>500 Box |
|-------|----------------|-------------|--------------|-------|--------|--------------------|

Color-coded Green for quick identification as grounding connector.



How grounding wire connector is typically used . . .

- A. System grounding wire
- B. System grounding wire
- C. "Through" wire between device and box ground



LISTED  
98X8



CERTIFIED

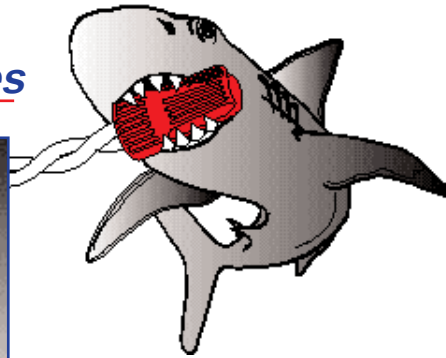


## HAWK™ Capacity Chart

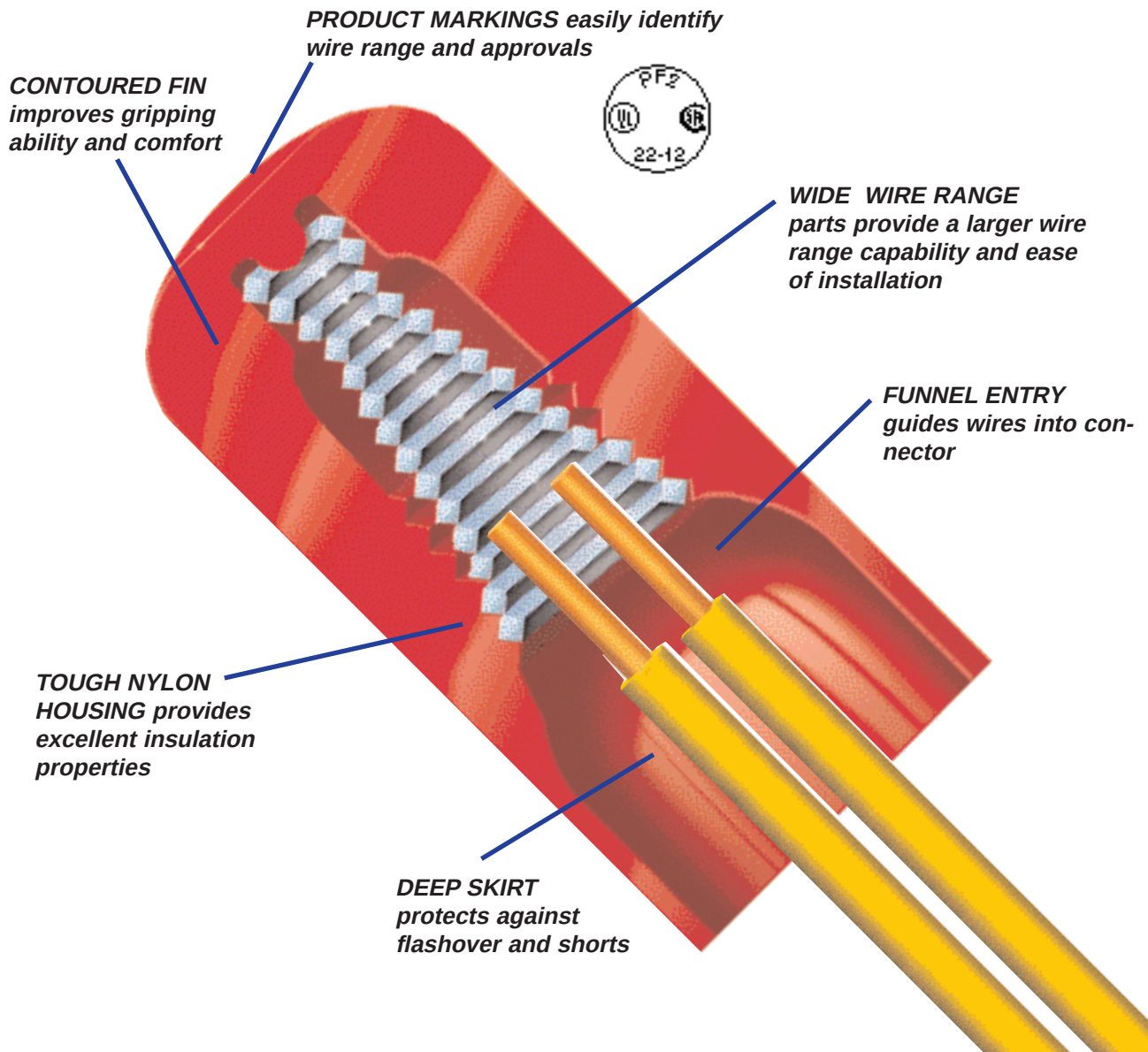
| CMA* | WIRE COMBINATIONS |        |        |        |                |       |       |       |       |       |               |
|------|-------------------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|---------------|
|      | 3 #22             | 2 #18  | 2 #14  | 2 #12  | 1 #10<br>1 #12 | 3 #12 | 3 #10 | 2 #8  | 4 #10 | 2 #6  | 2 #6<br>1 #10 |
|      | 1920              | 3240   | 8220   | 13060  | 16850          | 19590 | 30960 | 33020 | 41280 | 52540 | 62860         |
| P1   | Yellow            | Yellow | Yellow | Yellow | Yellow         |       |       |       |       |       |               |
| P2   | Red               | Red    | Red    | Red    | Red            | Red   | Red   | Red   |       |       |               |
| P4   |                   |        |        | Blue   | Blue           | Blue  | Blue  | Blue  | Blue  | Blue  | Blue          |
| P2G  |                   |        | Green  | Green  | Green          | Green |       |       |       |       |               |

\* CMA = Circular Mil Area (See Wire Combination Table, Page 10)

## **SHARK™ Fin Style . . . Features**



- ▲ Large grip area for easy-on-the-fingers installation
- ▲ Three sizes cover full range of wire sizes and combinations
- ▲ Funnel entry guides wires into connector
- ▲ Tough nylon housing resists breakage
- ▲ Excellent electrical insulation
- ▲ Standard industry colors



## SHARK™ Fin Style

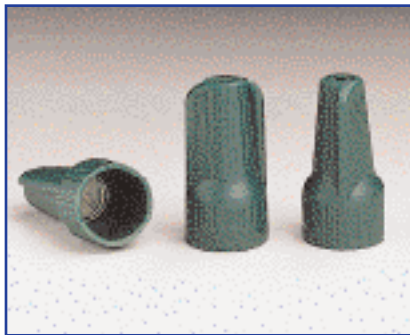
These high-quality wire connectors provide an expanded wire range capability and are fully UL and CSA Approved. They are designed for optimum performance in a variety of applications including manufacturing, maintenance and new construction.



| Insulation Color | Panduit Part Number | Wire Range                 |                          | CMA Range |        | Pkg. Qty./ Type    |
|------------------|---------------------|----------------------------|--------------------------|-----------|--------|--------------------|
|                  |                     | Min.                       | Max.                     | Min.      | Max.   |                    |
| Yellow           | PF1-C<br>PF1-D      | (3) #22 AWG                | (3) #12 AWG              | 1,920     | 19,590 | 100 Box<br>500 Bag |
| Red              | PF2-C<br>PF2-D      | (3) #22 AWG                | (5) #12 AWG              | 1,920     | 32,650 | 100 Box<br>500 Bag |
| Blue             | PF4-L<br>PF4-TL     | (1) #12 AWG<br>(1) #14 AWG | (1) #6 AWG<br>(2) #8 AWG | 10,640    | 59,290 | 50 Box<br>250 Bag  |

|       |                  |             |             |       |        |                    |
|-------|------------------|-------------|-------------|-------|--------|--------------------|
| Green | PF2G-C<br>PF2G-D | (2) #14 AWG | (5) #12 AWG | 8,220 | 32,650 | 100 Box<br>500 Box |
|-------|------------------|-------------|-------------|-------|--------|--------------------|

Color-coded Green for quick identification as grounding connector.



How grounding wire connector is typically used . . .

- A. System grounding wire
- B. System grounding wire
- C. "Through" wire between device and box ground



## SHARK™ Capacity Chart

| WIRE COMBINATIONS |       |       |       |       |       |       |       |       |       |       |       |               |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| CMA*              | 3 #22 | 3 #20 | 2 #18 | 2 #14 | 2 #12 | 1 #10 | 3 #12 | 3 #10 | 2 #8  | 4 #10 | 2 #6  | 2 #6<br>1 #10 |
|                   | 1920  | 3060  | 3240  | 8220  | 13060 | 16850 | 19590 | 30960 | 33020 | 41280 | 52540 | 62860         |
| PF1               |       |       |       |       |       |       |       |       |       |       |       |               |
| PF2               |       |       |       |       |       |       |       |       |       |       |       |               |
| PF4               |       |       |       |       |       |       |       |       |       |       |       |               |
| PF2G              |       |       |       |       |       |       |       |       |       |       |       |               |

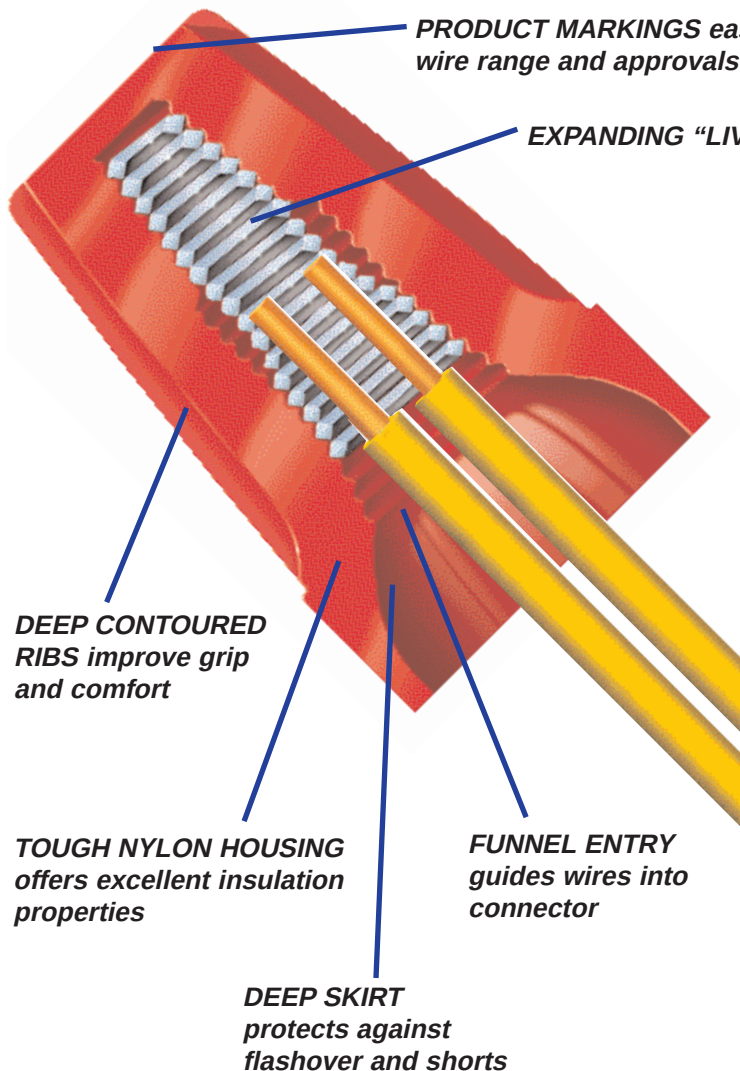
\* CMA = Circular Mil Area (See Wire Combination Table, Page 10)

## PYTHON™ Nut Style . . . Features



- ▲ Space-saving design
- ▲ Deep ribs for improved grip
- ▲ Four convenient sizes plus high-temperature style
- ▲ Tough nylon housing
- ▲ Available in blue, orange, yellow, red and black

**REUSABLE** for greater convenience and economy



**PRODUCT MARKINGS** easily identify wire range and approvals



**EXPANDING "LIVE" SPRING** for a large wire range capacity

**DEEP CONTOURED RIBS** improve grip and comfort

**TOUGH NYLON HOUSING** offers excellent insulation properties

**DEEP SKIRT** protects against flashover and shorts

**FUNNEL ENTRY** guides wires into connector

### Typical Applications



Fluorescent lighting fixtures...commercial, industrial.



Home appliances... lamps, washing machines, refrigerators.

## PYTHON™ Nut Style

These high-quality wire connectors provide an expanded wire range capability and are fully UL and CSA Approved. They are designed for optimum performance in a variety of applications including manufacturing, maintenance and new construction.



### Temperature 105°C (221°F)

| Insulation Color | Panduit Part Number       | Wire Range  |             | CMA Range |        | Pkg. Qty./ Type                  |
|------------------|---------------------------|-------------|-------------|-----------|--------|----------------------------------|
|                  |                           | Min.        | Max.        | Min.      | Max.   |                                  |
| Blue             | P72-C<br>P72-D<br>P72-10M | (2) #22 AWG | (3) #16 AWG | 1,280     | 7,740  | 100 Box<br>500 Bag<br>10,000 Keg |
| Orange           | P73-C<br>P73-D<br>P73-10M | (3) #20 AWG | (4) #16 AWG | 3,060     | 10,320 | 100 Box<br>500 Bag<br>10,000 Keg |
| Yellow           | P74-C<br>P74-D<br>P74-10M | (2) #18 AWG | (3) #12 AWG | 3,240     | 19,590 | 100 Box<br>500 Bag<br>10,000 Keg |
| Red              | P76-C<br>P76-TL<br>P76-5M | (4) #18 AWG | (4) #12 AWG | 6,480     | 26,120 | 100 Box<br>250 Bag<br>5,000 Keg  |

### High Temperature 150°C (302°F)

For High Temp. applications, such as high intensity discharge lighting (HID)

|       |                      |             |             |       |        |                       |
|-------|----------------------|-------------|-------------|-------|--------|-----------------------|
| Black | P72HT-D<br>P72HT-10M | (2) #22 AWG | (3) #16 AWG | 1,280 | 7,740  | 500 Bag<br>10,000 Keg |
|       | P73HT-D<br>P73HT-10M | (3) #20 AWG | (4) #16 AWG | 3,060 | 10,320 | 500 Bag<br>10,000 Keg |
|       | P74HT-D<br>P74HT-10M | (2) #18 AWG | (3) #12 AWG | 3,240 | 19,590 | 500 Bag<br>10,000 Keg |
|       | P76HT-TL<br>P76HT-5M | (4) #18 AWG | (4) #12 AWG | 6,480 | 26,120 | 250 Bag<br>5,000 Keg  |

## PYTHON™ Capacity Chart

| WIRE COMBINATIONS |       |       |       |       |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CMA*              | 2 #22 | 3 #22 | 2 #16 | 3 #16 | 4 #16 | 3 #14 | 4 #14 | 3 #12 | 5 #12 |
|                   | 1280  | 1920  | 5160  | 7740  | 10320 | 12330 | 16440 | 19590 | 32650 |
| P72<br>P72HT      |       |       |       |       |       |       |       |       |       |
| P73<br>P73HT      |       |       |       |       |       |       |       |       |       |
| P74<br>P74HT      |       |       |       |       |       |       |       |       |       |
| P76<br>P76HT      |       |       |       |       |       |       |       |       |       |

\* CMA = Circular Mil Area (See Wire Combination Table, page 11)

# PANDUIT® P-CONN™ SCREW-ON WIRE CONNECTORS



## WIRE COMBINATION COMPARISONS

| FIN STYLE SCREW-ON CONNECTORS—WIRE COMBINATIONS                               |       |       |       |       |       |                |       |       |       |       |       |               |
|-------------------------------------------------------------------------------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|---------------|
| CMA                                                                           | 3 #22 | 3 #20 | 2 #18 | 2 #14 | 2 #12 | 1 #10<br>1 #12 | 3 #12 | 3 #10 | 2 #8  | 4 #10 | 2 #6  | 2 #6<br>1 #10 |
|                                                                               | 1920  | 3060  | 3240  | 8220  | 13060 | 16850          | 19590 | 30960 | 33020 | 41280 | 52540 | 62860         |
| PF1 (PANDUIT)<br>B1 (Buchanan)<br>SCOTCHLOK-Y (3M)<br>G1 (GB)<br>10-220 (T&B) |       |       |       |       |       |                |       |       |       |       |       |               |
| PF2 (PANDUIT)<br>B2 (Buchanan)<br>SCOTCHLOK-R (3M)<br>G2 (GB)<br>10-228 (T&B) |       |       |       |       |       |                |       |       |       |       |       |               |
| PF4 (PANDUIT)<br>B4 (Buchanan)<br>SCOTCHLOK-B (3M)<br>10-166 (T&B)            |       |       |       |       |       |                |       |       |       |       |       |               |
| PF2G (PANDUIT)<br>BGR (Buchanan)                                              |       |       |       |       |       |                |       |       |       |       |       |               |

| HEX STYLE AND WING STYLE SCREW-ON CONNECTORS—WIRE COMBINATIONS                                        |       |       |       |       |       |                |       |       |       |       |       |               |
|-------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|---------------|
| CMA                                                                                                   | 3 #22 | 3 #20 | 2 #18 | 2 #14 | 2 #12 | 1 #10<br>1 #12 | 3 #12 | 3 #10 | 2 #8  | 4 #10 | 2 #6  | 2 #6<br>1 #10 |
|                                                                                                       | 1920  | 3060  | 3240  | 8220  | 13060 | 16850          | 19590 | 30960 | 33020 | 41280 | 52540 | 62860         |
| P1 (PANDUIT)<br>451* (Ideal)<br>W1 (Buchanan)<br>312 RANGER (3M)<br>O/B (3M)<br>84 (GB)<br>HI-Y (T&B) |       |       |       |       |       |                |       |       |       |       |       |               |
| PH1 (PANDUIT)<br>341* (Ideal)<br>H1 (GB)<br>212 HYFLEX (SM)                                           |       |       |       |       |       |                |       |       |       |       |       |               |
| P2 (PANDUIT)<br>452* (Ideal)<br>W2 (Buchanan)<br>512 RANGER (3M)<br>R/Y (3M)<br>86 (GB)<br>HI-R (T&B) |       |       |       |       |       |                |       |       |       |       |       |               |
| PH2 (PANDUIT)<br>342* (Ideal)<br>H2 (GB)                                                              |       |       |       |       |       |                |       |       |       |       |       |               |
| P4 (PANDUIT)<br>454* (Ideal)<br>W4 (Buchanan)<br>B/G (3M)<br>89 (GB)<br>HI-B (T&B)                    |       |       |       |       |       |                |       |       |       |       |       |               |
| P2G (PANDUIT)<br>92* (Ideal)<br>WGR (Buchanan)<br>512G (3M)<br>95 (GB)                                |       |       |       |       |       |                |       |       |       |       |       |               |

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| NUT STYLE SCREW-ON CONNECTORS—WIRE COMBINATIONS                                                    |             |      |       |      |       |       |       |       |       |  |
|----------------------------------------------------------------------------------------------------|-------------|------|-------|------|-------|-------|-------|-------|-------|--|
| CMA                                                                                                | 2 #22 3 #22 |      | 2 #16 |      | 3 #16 |       | 4 #16 |       | 3 #14 |  |
|                                                                                                    | 1280        | 1920 | 5160  | 7740 | 10320 | 12330 | 16440 | 19590 | 32650 |  |
| 71B* (Ideal)<br>N1 (Buchanan)<br>H-29 (3M)<br>GB-1 (GB)<br>Hi-0 (T&B)                              |             |      |       |      |       |       |       |       |       |  |
| P72 (PANDUIT)<br>72B* (Ideal)<br>N2 (Buchanan)<br>H-30 (3M)<br>GB-2 (GB)<br>Hi-2 (T&B)             |             |      |       |      |       |       |       |       |       |  |
| P73 (PANDUIT)<br>73B* (Ideal)<br>N3 (Buchanan)<br>H-31 (3M)<br>O/B (3M)<br>GB-3 (GB)<br>Hi-3 (T&B) |             |      |       |      |       |       |       |       |       |  |
| P74 (PANDUIT)<br>74B* (Ideal)<br>N4 (Buchanan)<br>H-33 (3M)<br>GB-4 (GB)<br>Hi-4 (T&B)             |             |      |       |      |       |       |       |       |       |  |
| P76 (PANDUIT)<br>76B* (Ideal)<br>N6 (Buchanan)<br>H-35 (3M)<br>GB-6 (GB)<br>Hi-6 (T&B)             |             |      |       |      |       |       |       |       |       |  |

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## Wire Combination Table

For calculating total Circular Mil Area

**Directions:** Locate desired size of wire(s) in left column. Read across to find Circular Mil Area for the total number of wires per each wire size. Add these amounts together to calculate the total Circular Mil Area for desired wire combination.

Example: (1)#14 + (1)#12 = 10,640.  
(Use this table in conjunction with the wire range charts on pages 3, 5, 7 and 9 or the specific listed CMA range shown for each part.)

|           | Circular Mil Area per number of wires |         |         |         |         |
|-----------|---------------------------------------|---------|---------|---------|---------|
| Wire Size | 1 Wire                                | 2 Wires | 3 Wires | 4 Wires | 5 Wires |
| #22 AWG   | 640                                   | 1280    | 1920    | 2560    | 3200    |
| #20 AWG   | 1020                                  | 2040    | 3060    | 4080    | 5100    |
| #18 AWG   | 1620                                  | 3240    | 4860    | 6480    | 8100    |
| #16 AWG   | 2580                                  | 5160    | 7740    | 10320   | 12900   |
| #14 AWG   | 4110                                  | 8220    | 12330   | 16440   | 20550   |
| #12 AWG   | 6530                                  | 13060   | 19590   | 26120   | 32650   |
| #10 AWG   | 10380                                 | 20760   | 31140   | 41520   | 51900   |
| #8 AWG    | 16510                                 |         |         |         |         |

Consult product package or factory for UL Listed and CSA Certified combinations.

# PANDUIT® P-CONN™ SCREW-ON WIRE CONNECTORS

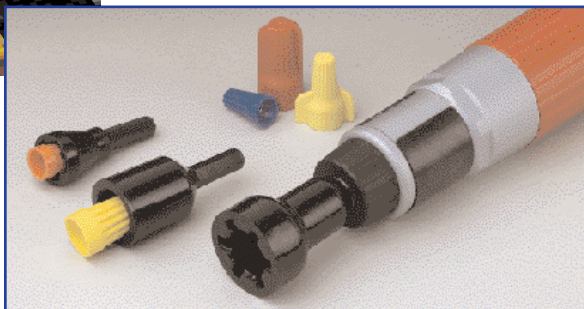
## "Pick-A-P-CONN™" Assortment Kits



A collection of the most popular wire connectors packaged in a sturdy, reusable plastic box.

| Part Number    | Description            |
|----------------|------------------------|
| <b>KP-305</b>  | Kit includes:          |
|                | 1 Reusable plastic box |
|                | 100 Yellow P1          |
|                | 100 Orange P73         |
|                | 75 Red P2              |
|                | 15 Blue P4             |
|                | 2 Quick-Spins          |
| <b>KP-305S</b> | Kit includes:          |
|                | 100 Yellow PF1         |
|                | 100 Orange P73         |
|                | 75 Red PF2             |
|                | 15 Blue PF4            |
|                | 2 Quick-Spins          |

## "QUICK-SPIN" Installation Tools



Use these handy tools for quick and easy installation of screw-on and nut style connectors. Fits 1/4" drill (not included).

| Part Number | For use with Part Number                        |
|-------------|-------------------------------------------------|
| PQS1        | P1, P2 <i>HAWK™ Wing Style</i>                  |
| PQS2        | P72, P73, P72HT, P73HT <i>PYTHON™ Nut Style</i> |
| PQS3        | P74, P76, P74HT, P76HT <i>PYTHON™ Nut Style</i> |
| PQS4        | PF1, PF2 <i>SHARK™ Fin Style</i>                |

## Crimp Joints



Solderless crimp - preferred for applications subject to vibration.

| Panduit<br>Part Number | Insul.<br>Color | Wire Range  |             | CMA Range |        | Std.<br>Pkg. | Bulk<br>Pkg. |
|------------------------|-----------------|-------------|-------------|-----------|--------|--------------|--------------|
|                        |                 | Min.        | Max.        | Min.      | Max.   |              |              |
| Nylon Insulated        |                 |             |             |           |        |              |              |
| JN224-318-C            | Red             | (2) #24 AWG | (3) #18 AWG | 808       | 5,160  | 100          | 1000         |
| JN218-216-C            | Clear           | (2) #22 AWG | (2) #16 AWG | 1,284     | 5,160  | 100          | 1000         |
| JN418-212-C            | Clear           | (4) #18 AWG | (2) #12 AWG | 6,480     | 14,750 | 100          | 500          |
| JN314-412-C            | Clear           | (3) #14 AWG | (4) #12 AWG | 10,320    | 26,120 | 100          | 1000         |
| Non-Insulated          |                 |             |             |           |        |              |              |
| J214-312-T             | —               | (2) #14 AWG | (3) #12 AWG | 5,760     | 19,590 | 200          | 2000         |
| J318-412-T             | —               | (3) #18 AWG | (4) #12 AWG | 4,860     | 27,330 | 200          | 2000         |
| J216-410-L             | —               | (2) #16 AWG | (4) #10 AWG | 5,160     | 41,600 | 50           | 500          |



\*Except JN314-412, J216-410

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