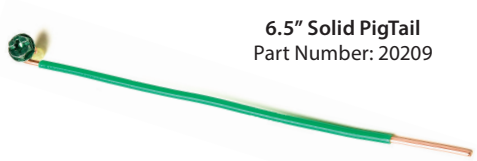
# Ground Bonding Products

**Product Data Sheet**

## GROUND BONDING PIGTAILS
## (WIRE GAUGE SIZE IS 12 AWG EXCEPT WHERE NOTED)

- Labor and Time Savings!
- US/Canada UL Listed. UL File: #E229221.
- Meet the requirements of the 2023 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).
- Features a captive GSH or GSC Green Ground Screw on one end, the other end is pre-stripped 5/8" or 1".
- Available in Insulated Solid or Stranded Wire; 6.5", 8", 10" and 12" lengths.



**6.5" Solid PigTail**
Part Number: 20209

### REFERENCE GUIDE — INSULATED SOLID WIRE PIGTAILS (WIRE GAUGE SIZE IS 12 AWG EXCEPT WHERE NOTED)

**PART NUMBERS**

20209: 6.5-Inch (BAG)
10009: 6.5-Inch (BULK)*
20210: 6.5-Inch (14 AWG) (BAG)
10010: 6.5-Inch (14 AWG) (BULK)
20211: 8-Inch (BAG)
10011: 8-Inch (BULK)*
20287: 10-Inch (BAG)
10089: 12-Inch (BULK)
20289: 12-Inch (BAG)

**PigTail:** With captive GSH Ground Screw - Stripped 1".





GSH Ground Screw



GSC Ground Screw

10016: 6.5-Inch (BULK)
20216: 6.5-Inch (BAG)

**PigTail:** With captive GSC Ground Screw - Stripped 1".



### REFERENCE GUIDE — INSULATED STRANDED WIRE PIGTAILS (WIRE GAUGE SIZE IS 12 AWG EXCEPT WHERE NOTED)

**PART NUMBERS**

20208: 8-Inch (BAG)
10008: 8-Inch (BULK)*

**PigTail:** One (1) Flanged Spade Terminal - Stripped 5/8".



20203: 8-Inch (14 AWG) (BAG)
10003: 8-Inch (14 AWG) (BULK)
20204: 8-Inch (BAG)
10004: 8-Inch (BULK)*
20219: 10-Inch (BAG)
20225: 12-Inch (BAG)

**PigTail:** One (1) Flanged Spade Terminal and a captive GSH Ground Screw.



20229: 8-Inch* (BAG)

**PigTail:** Ring Terminal and a captive GSH Ground Screw - Stripped 5/8".



10041: 8-Inch (BULK)
20220: 10-Inch (BAG)
20226: 12-Inch (BAG)

**PigTail:** One (1) Flanged Spade Terminal and a captive GSC Ground Screw.



20236: 8-Inch (BAG)
20235: 10-Inch (BAG)

**PigTail:** Ring Terminal and a captive GSC Ground Screw - Stripped 5/8".



***Contractor preferred***

5401 SMETANA DRIVE, MINNETONKA MN 55343 • WWW.ENGPRODUCTS.COM
P 800.336.1976 • F 800.336.2801 • E SALES@ENGPRODUCTS.COM

ENGINEERED PRODUCTS CO.

| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Solid Wire With GSH Ground Screw** | | | | | | | | | | |
| 20209 | 20209 | 6.5", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10009 | 10161 | 6.5", Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20210 | 20210 | 6.5" (14 AWG), Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10010 | 10162 | 6.5" (14 AWG), Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 14 |
| 20211* | 20211 | 8", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 11 |
| 10011* | 10163 | 8", Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 22 |
| 20287 | 20287 | 10", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10089 | 10089 | 12", Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 22 |
| 20289 | 20289 | 12", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| Solid Wire With GSC Ground Screw | | | | | | | | | | |
| 20216 | 20216 | 6.5", Captive GSC Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10016 | 10016 | 6.5", Captive GSC Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20286 | 20286 | 8", Captive GSC Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 11 |
| 20288 | 20288 | 10", Captive GSC Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| Stranded Wire Without Ground Screws | | | | | | | | | | |
| 20208 | 20208 | 8", One (1) Flanged Spade Terminal – Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10008* | 10008 | 8", One (1) Flanged Spade Terminal – Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 26 |
| Stranded Wire With GSH Ground Screw | | | | | | | | | | |
| 20203 | 20203 | 8", (14 AWG), One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 16 |
| 10003 | 10154 | 8" (14 AWG), One (1) Flanged Spade Terminal (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 32 |
| 20204* | 20204 | 8", One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10004* | 10155 | 8", One (1) Flanged Spade Terminal (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 26 |
| 20219 | 20219 | 10", One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 15 |
| 20225 | 20225 | 12", One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 17 |
| 20229* | 20229 | 8", Ring Terminal - Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 12 |
| Stranded Wire With GSC Ground Screw | | | | | | | | | | |
| 20220 | 20220 | 10", Ring Terminal, One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 15 |
| 20226 | 20226 | 12", Ring Terminal, One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 17 |
| 20235 | 20235 | 10", Ring Terminal - Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 14 |
| 20236 | 20236 | 8", Ring Terminal - Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 12 |
| 20241 | 20241 | 8", Ring Terminal, One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10041 | 10160 | 8", Ring Terminal, One (1) Flanged Spade Terminal (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 26 |

***Contractor preferred***

**UNITS OF MEASURE KEY**

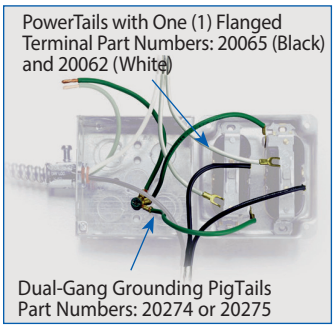
**Order Unit:** The Unit to be ordered; **Unit Qty:** Number of pieces in each Unit; **Unit Pkg:** Unit Packages contained in the case - Packaging types - BG (Bag), BRL (Barrel), BX (Box), BN (Bulk), PKG (Package), EA (Each), RL (Roll), LB (Pound), C (Hundred), M (Thousand); **Units/Case:** Unit packages contained in the Case; **TL Case Qty:** The total number of items in each Master Case; **Min Order Qty:** The smallest Unit that can be ordered; **MM Req:** Must order multiples of the Unit in the stated quantities; **Ship Wt (Lbs):** Total weight of the units per Carton



EPCO Ground Bonding PigTails are Made in the USA. Complies with the American Recovery and Reinvestment Act – Buy American Provision.

## SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS (12 AWG ONLY)

- Labor and Time Savings!
- US/Canada UL Listed. UL File: #E229221.
- Matched Flanged Spade and Ring Terminals ensure a safe, reliable ground connection.
- Meet the requirements of the 2023 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).






Part Number: 20274

***Reprinted from the 2023 National Electrical Code: Article 250.148 — Continuity and Attachment of Equipment Grounding Conductors to Boxes:***
*Where circuit conductors are spliced within a box, or terminated on equipment within, or supported by a box, any equipment grounding conductor(s) associated with those circuit conductors shall be connected within the box or to the box with devices suitable for the use in accordance with 250.148(A) through (E).*

## REFERENCE GUIDE — SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS (12 AWG ONLY)

**PART NUMBERS**

20267: 8-Inch Solid Wire Single-Gang (BAG)



20268: 8-Inch Stranded Wire Single-Gang (BAG)



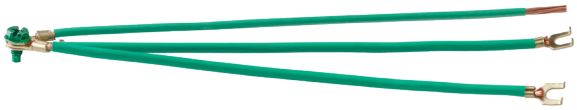
20270: 8-Inch Stranded Wire Dual-Gang* (BAG)



20274: 8-Inch Solid Wire Dual-Gang* (BAG)



20275: 8-Inch Stranded Wire Dual-Gang (BAG)



| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20267(BAG) | 20267 | **Single-Gang PigTail:** One (1) 8" Solid Wire Incoming Lead - Stripped 1", One (1) 8" Stranded Wire Conductor with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 9 |
| 20268(BAG) | 20268 | **Single-Gang PigTail:** One (1) 8" Stranded Wire Incoming Lead - Stripped 5/8", One (1) 8" Stranded Wire Conductor with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 9 |
| 20270(BAG)* | 20270 | **Dual-Gang PigTail:** Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 10 |
| 20274(BAG)* | 20270 | **Dual-Gang PigTail:** One (1) 8" Solid Wire Incoming Lead - Stripped 1",Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 11 |
| 20275(BAG) | 20275 | **Dual-Gang PigTail:** One (1) 8" Stranded Wire Incoming Lead - Stripped 5/8", Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 13 |

***Contractor preferred***

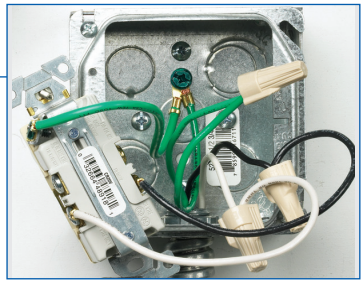
**UNITS OF MEASURE KEY**
**Order Unit:** The Unit to be ordered; **Unit Qty:** Number of pieces in each Unit; **Unit Pkg:** Unit Packages contained in the case - Packaging types - BG (Bag), BRL (Barrel), BX (Box), BN (Bulk), PKG (Package), EA (Each), RL (Roll), LB (Pound), C (Hundred), M (Thousand); **Units/Case:** Unit packages contained in the Case; **TL Case Qty:** The total number of items in each Master Case; **Min Order Qty:** The smallest Unit that can be ordered; **MM Req:** Must order multiples of the Unit in the stated quantities; **Ship Wt (Lbs):** Total weight of the units per Carton

EPCO Ground Bonding PigTails are Made in the USA. Complies with the American Recovery and Reinvestment Act – Buy American Provision.

## SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS — APPLICATION EXAMPLES

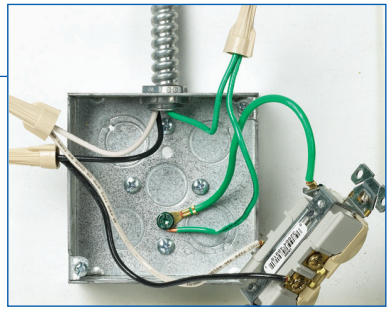
### SINGLE-GANG SOLID WIRE: P/N 20267

The ground screw is screwed into and bonds the metal junction box. The single stranded wire grounding conductor with the flanged spade terminal from this same PigTail grounds the receptacle. The solid wire grounding conductor on the PigTail will ground the receptacle. The solid wire grounding conductor on the PigTail connects to the MC Cable and bonds back to the service panel.



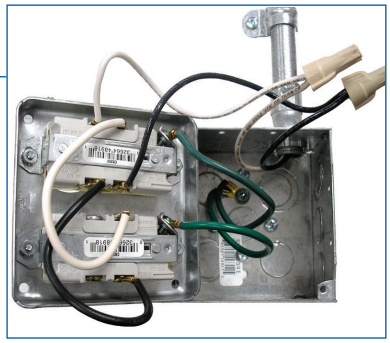
### SINGLE-GANG STRANDED WIRE: P/N 20268

The ground screw is screwed into and "grounds" the metal junction box. The single stranded wire grounding conductor with the flanged spade terminal from this PigTail grounds the receptacle. The stranded wire grounding conductor on the PigTail connects (by wire nut) the incoming ground conductor in the MC Cable and bonds back to the service panel.



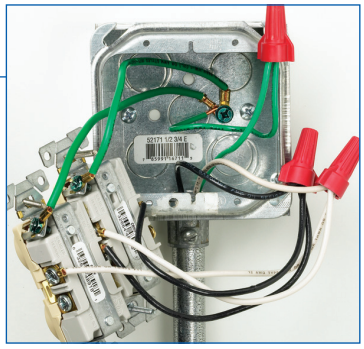
### DUAL-GANG STRANDED WIRE: P/N 20270

The ground screw is screwed into the 10/32 tapped grounding hole opening in the metal junction box, bonding the junction box to the conduit system and grounded back to the service panel. The two (2) stranded wire ground PigTails with the flanged spade terminals would then connect to the grounding screw of the receptacles or switches to be wired.



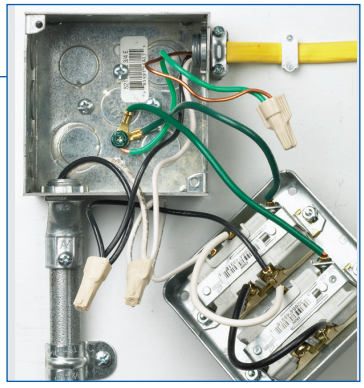
### DUAL-GANG SOLID WIRE: P/N 20274

The ground screw is screwed into and bonds the metal junction box. The two (2) stranded wire grounding conductors with the flanged spade terminals from this PigTail grounds each receptacle. The solid wire conductor on the PigTail connects by wire nut to the incoming ground conductor in the conduit and bonds back to the service panel.



### DUAL-GANG STRANDED WIRE: P/N 20275

The ground screw is screwed into and "grounds" the metal junction box and is bonded back to the service-grounded panel. Two (2) stranded wire grounding conductors with flanged spade terminals from this PigTail ground each receptacle. The stranded wire grounding conductor on the PigTail connects by wire nut to the ground conductor from the incoming cable.



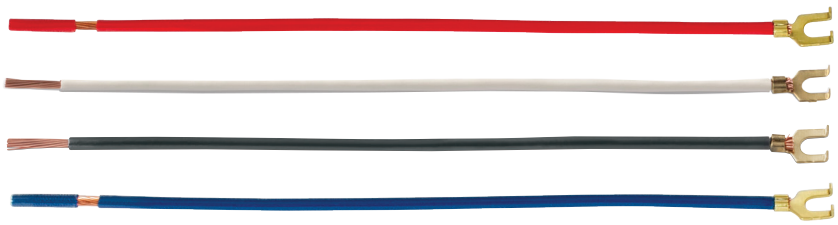
## POWERTAILS DEVICE WIRING CONDUCTORS (12 AWG ONLY)

- Labor and Time Savings! Used by contractors that wire Commercial and Industrial buildings when using single and/or multi-gang metal boxes.
- UL Recognized.
- Provides installation speed and a reliable connection when bringing power to multiple devices. Perfect for pre-wiring devices in the contractor's shop or on the job site.
- 8" Black, White, Blue, or Red leads feature a factory crimped Flanged Spade Terminal that slips under the terminal screw on the device.
- Manufactured using flexible 12 AWG stranded wire to easily push into the junction box.
- Meet the requirements of the 2023 National Electrical Code: Articles 110.14(A) and (B).

### REFERENCE GUIDE — STRANDED POWERTAILS DEVICE WIRING CONDUCTORS (12 AWG)

**PART NUMBERS**

20261: Red (BAG)
10061: Red (BULK)
20262: White (BAG)
10062: White (BULK)
20265: Black (BAG)
10065: Black (BULK)
20277: Blue (BAG)
10077: Blue (BULK)



c UL us
PROCESSED WIRE

| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20261 | 20261 | 8", Red, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10061 | 10061 | 8", Red, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20262 | 20262 | 8", White, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10062 | 10062 | 8", White, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20265 | 20265 | 8", Black, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10065 | 10065 | 8", Black, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20277 | 20277 | 8", Blue, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10077 | 10077 | 8", Blue, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |

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EPCO Ground Bonding PigTails are Made in the USA. Complies with the American Recovery and Reinvestment Act – Buy American Provision.

## GROUND SCREWS

Our Ground Screws are manufactured in compliance with the Restriction of Hazardous Substances (RoHS) European Directive. These Screws (#10-32 x .375") meet the requirements of the 2023 National Electrical Code: Article 250.8.



GSH Ground Screw
Hex Head Screw

***GSH — Hex Head Screw*** – Combination slotted, Phillips and square drive tapered point screw used to simplify wiring installations when pre-tapped holes exist in metal boxes.



GSC Ground Screw
Cutting Point Screw

***GSC — Cutting Point Screw*** – Combination hex head, slotted, Phillips and square drive screw for use in metal boxes when holes have not been pre-tapped.

***Note:*** *The Directive of the 2002/95/EC European Union (EU), restricts the use of certain hazardous substances in electrical and electronic equipment. Those substances are Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs.*

## GROUND CLIPS

Our Ground Clips are an excellent time and labor saving alternative to Ground Screws and are specifically designed for termination of the grounding conductor and should be used when a 10-32 hole is not pre-drilled or tapped into a metallic junction box.



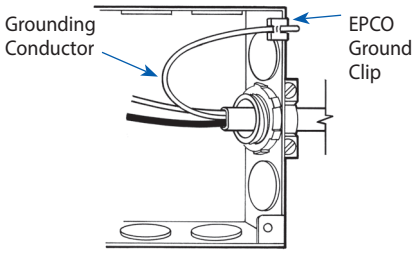
Ground Clip

Since ground clips are forced onto the outside edge of the junction box, we recommend using a "new" clip instead of re-using the old clip. Clips should never be forced onto the round portion of a plaster ring or a poor electrical connection will result.

### INSTALLATION PROCEDURE

The correct way to install a ground clip is to feed the grounding conductor into the ground clip with the shorter part of the ground clip placed inside the junction box.

Then use the flat blade of a screwdriver to force the ground clip onto the junction box to ensure a good electrical connection. See illustration.




RoHS ✓ Compliant 2002/95/EC

| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Ground Screws** | | | | | | | | | | |
| GSH | 10051 | **GSH:** Slotted, #2 Phillips, Hex Head, #2 Robertson with Tapered Die Point - Green | PKG | 100 | PKG | 10 | 1000 | 100 | Yes | 1 |
| 20051 | 20051 | **GSH:** Bulk | C | 1000 | BN | 1000 | 1000 | 1000 | Yes | 10 |
| GSC | 10053 | **GSC:** Slotted, #2 Phillips, Hex Head with Cutting Point - Green | PKG | 100 | PKG | 10 | 1000 | 100 | Yes | 1 |
| 20053 | 20053 | **GSC:** Bulk | C | 1000 | BN | 1000 | 1000 | 1000 | Yes | 10 |
| **Ground Clips** | | | | | | | | | | |
| GC | 10052 | **Ground Clip:** for 14 AWG -12 AWG Solid Wire | PKG | 100 | PKG | 10 | 1000 | 100 | Yes | 1 |
| 20052 | 20052 | **GC:** Bulk | C | 1000 | BN | 1000 | 1000 | 1000 | Yes | 10 |

***Note:*** *Ground Screws listed above are used in our Ground Bonding PigTails.*

****Contractor preferred***

**UNITS OF MEASURE KEY**
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E02-024-000 (07/24 AK)
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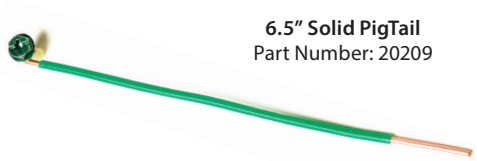
ENGINEERED PRODUCTS CO.

# Ground Bonding Products

**Product Data Sheet**

## GROUND BONDING PIGTAILS
## (WIRE GAUGE SIZE IS 12 AWG EXCEPT WHERE NOTED)

- Labor and Time Savings!
- US/Canada UL Listed. UL File: #E229221.
- Meet the requirements of the 2023 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).
- Features a captive GSH or GSC Green Ground Screw on one end, the other end is pre-stripped 5/8" or 1".
- Available in Insulated Solid or Stranded Wire; 6.5", 8", 10" and 12" lengths.



**6.5" Solid PigTail**
Part Number: 20209

### REFERENCE GUIDE — INSULATED SOLID WIRE PIGTAILS (WIRE GAUGE SIZE IS 12 AWG EXCEPT WHERE NOTED)

**PART NUMBERS**

20209: 6.5-Inch (BAG)
10009: 6.5-Inch (BULK)*
20210: 6.5-Inch (14 AWG) (BAG)
10010: 6.5-Inch (14 AWG) (BULK)
20211: 8-Inch (BAG)
10011: 8-Inch (BULK)*
20287: 10-Inch (BAG)
10089: 12-Inch (BULK)
20289: 12-Inch (BAG)

**PigTail:** With captive GSH Ground Screw - Stripped 1".





GSH Ground Screw



GSC Ground Screw

10016: 6.5-Inch (BULK)
20216: 6.5-Inch (BAG)

**PigTail:** With captive GSC Ground Screw - Stripped 1".



### REFERENCE GUIDE — INSULATED STRANDED WIRE PIGTAILS (WIRE GAUGE SIZE IS 12 AWG EXCEPT WHERE NOTED)

**PART NUMBERS**

20208: 8-Inch (BAG)
10008: 8-Inch (BULK)*

**PigTail:** One (1) Flanged Spade Terminal - Stripped 5/8".



20203: 8-Inch (14 AWG) (BAG)
10003: 8-Inch (14 AWG) (BULK)
20204: 8-Inch (BAG)
10004: 8-Inch (BULK)*
20219: 10-Inch (BAG)
20225: 12-Inch (BAG)

**PigTail:** One (1) Flanged Spade Terminal and a captive GSH Ground Screw.



20229: 8-Inch* (BAG)

**PigTail:** Ring Terminal and a captive GSH Ground Screw - Stripped 5/8".



10041: 8-Inch (BULK)
20220: 10-Inch (BAG)
20226: 12-Inch (BAG)

**PigTail:** One (1) Flanged Spade Terminal and a captive GSC Ground Screw.



20236: 8-Inch (BAG)
20235: 10-Inch (BAG)

**PigTail:** Ring Terminal and a captive GSC Ground Screw - Stripped 5/8".



***Contractor preferred***

5401 SMETANA DRIVE, MINNETONKA MN 55343 • WWW.ENGPRODUCTS.COM
P 800.336.1976 • F 800.336.2801 • E SALES@ENGPRODUCTS.COM

ENGINEERED PRODUCTS CO.

| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Solid Wire With GSH Ground Screw** | | | | | | | | | | |
| 20209 | 20209 | 6.5", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10009 | 10161 | 6.5", Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20210 | 20210 | 6.5" (14 AWG), Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10010 | 10162 | 6.5" (14 AWG), Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 14 |
| 20211* | 20211 | 8", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 11 |
| 10011* | 10163 | 8", Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 22 |
| 20287 | 20287 | 10", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10089 | 10089 | 12", Captive GSH Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 22 |
| 20289 | 20289 | 12", Captive GSH Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| Solid Wire With GSC Ground Screw | | | | | | | | | | |
| 20216 | 20216 | 6.5", Captive GSC Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10016 | 10016 | 6.5", Captive GSC Ground Screw – Stripped 1" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20286 | 20286 | 8", Captive GSC Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 11 |
| 20288 | 20288 | 10", Captive GSC Ground Screw – Stripped 1" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| Stranded Wire Without Ground Screws | | | | | | | | | | |
| 20208 | 20208 | 8", One (1) Flanged Spade Terminal – Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10008* | 10008 | 8", One (1) Flanged Spade Terminal – Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 26 |
| Stranded Wire With GSH Ground Screw | | | | | | | | | | |
| 20203 | 20203 | 8", (14 AWG), One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 16 |
| 10003 | 10154 | 8" (14 AWG), One (1) Flanged Spade Terminal (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 32 |
| 20204* | 20204 | 8", One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10004* | 10155 | 8", One (1) Flanged Spade Terminal (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 26 |
| 20219 | 20219 | 10", One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 15 |
| 20225 | 20225 | 12", One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 17 |
| 20229* | 20229 | 8", Ring Terminal - Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 12 |
| Stranded Wire With GSC Ground Screw | | | | | | | | | | |
| 20220 | 20220 | 10", Ring Terminal, One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 15 |
| 20226 | 20226 | 12", Ring Terminal, One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 17 |
| 20235 | 20235 | 10", Ring Terminal - Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 14 |
| 20236 | 20236 | 8", Ring Terminal - Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 12 |
| 20241 | 20241 | 8", Ring Terminal, One (1) Flanged Spade Terminal (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 13 |
| 10041 | 10160 | 8", Ring Terminal, One (1) Flanged Spade Terminal (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 26 |

***Contractor preferred***

**UNITS OF MEASURE KEY**

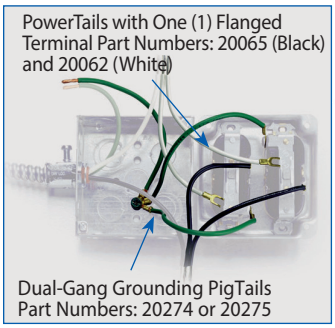
**Order Unit:** The Unit to be ordered; **Unit Qty:** Number of pieces in each Unit; **Unit Pkg:** Unit Packages contained in the case - Packaging types - BG (Bag), BRL (Barrel), BX (Box), BN (Bulk), PKG (Package), EA (Each), RL (Roll), LB (Pound), C (Hundred), M (Thousand); **Units/Case:** Unit packages contained in the Case; **TL Case Qty:** The total number of items in each Master Case; **Min Order Qty:** The smallest Unit that can be ordered; **MM Req:** Must order multiples of the Unit in the stated quantities; **Ship Wt (Lbs):** Total weight of the units per Carton



EPCO Ground Bonding PigTails are Made in the USA. Complies with the American Recovery and Reinvestment Act – Buy American Provision.

## SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS (12 AWG ONLY)

- Labor and Time Savings!
- US/Canada UL Listed. UL File: #E229221.
- Matched Flanged Spade and Ring Terminals ensure a safe, reliable ground connection.
- Meet the requirements of the 2023 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).






Part Number: 20274

***Reprinted from the 2023 National Electrical Code: Article 250.148 — Continuity and Attachment of Equipment Grounding Conductors to Boxes:***
*Where circuit conductors are spliced within a box, or terminated on equipment within, or supported by a box, any equipment grounding conductor(s) associated with those circuit conductors shall be connected within the box or to the box with devices suitable for the use in accordance with 250.148(A) through (E).*

## REFERENCE GUIDE — SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS (12 AWG ONLY)

**PART NUMBERS**

20267: 8-Inch Solid Wire Single-Gang (BAG)



20268: 8-Inch Stranded Wire Single-Gang (BAG)



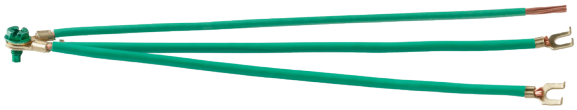
20270: 8-Inch Stranded Wire Dual-Gang* (BAG)



20274: 8-Inch Solid Wire Dual-Gang* (BAG)



20275: 8-Inch Stranded Wire Dual-Gang (BAG)



| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20267(BAG) | 20267 | **Single-Gang PigTail:** One (1) 8" Solid Wire Incoming Lead - Stripped 1", One (1) 8" Stranded Wire Conductor with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 9 |
| 20268(BAG) | 20268 | **Single-Gang PigTail:** One (1) 8" Stranded Wire Incoming Lead - Stripped 5/8", One (1) 8" Stranded Wire Conductor with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 9 |
| 20270(BAG)* | 20270 | **Dual-Gang PigTail:** Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 10 |
| 20274(BAG)* | 20270 | **Dual-Gang PigTail:** One (1) 8" Solid Wire Incoming Lead - Stripped 1",Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 11 |
| 20275(BAG) | 20275 | **Dual-Gang PigTail:** One (1) 8" Stranded Wire Incoming Lead - Stripped 5/8", Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw | PKG | 20 | BG | 20 | 400 | 20 | Yes | 13 |

***Contractor preferred***

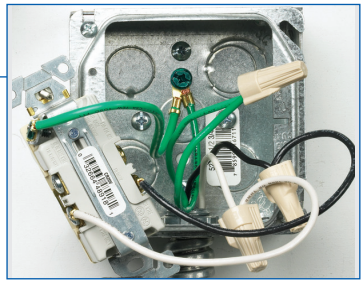
**UNITS OF MEASURE KEY**
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## SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS — APPLICATION EXAMPLES

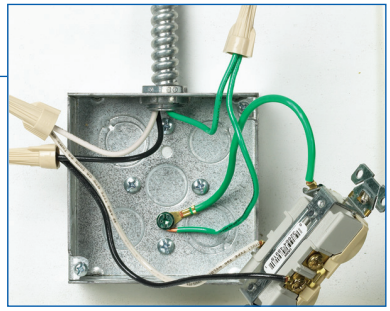
### SINGLE-GANG SOLID WIRE: P/N 20267

The ground screw is screwed into and bonds the metal junction box. The single stranded wire grounding conductor with the flanged spade terminal from this same PigTail grounds the receptacle. The solid wire grounding conductor on the PigTail will ground the receptacle. The solid wire grounding conductor on the PigTail connects to the MC Cable and bonds back to the service panel.



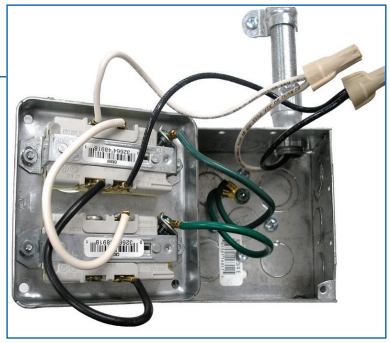
### SINGLE-GANG STRANDED WIRE: P/N 20268

The ground screw is screwed into and "grounds" the metal junction box. The single stranded wire grounding conductor with the flanged spade terminal from this PigTail grounds the receptacle. The stranded wire grounding conductor on the PigTail connects (by wire nut) the incoming ground conductor in the MC Cable and bonds back to the service panel.



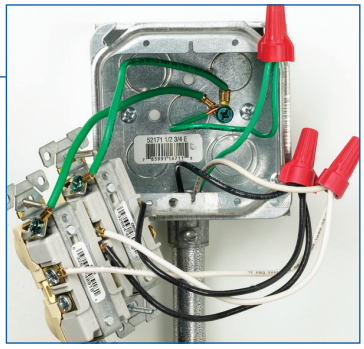
### DUAL-GANG STRANDED WIRE: P/N 20270

The ground screw is screwed into the 10/32 tapped grounding hole opening in the metal junction box, bonding the junction box to the conduit system and grounded back to the service panel. The two (2) stranded wire ground PigTails with the flanged spade terminals would then connect to the grounding screw of the receptacles or switches to be wired.



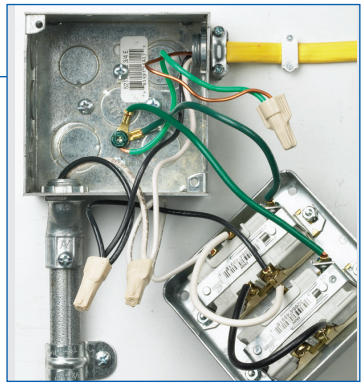
### DUAL-GANG SOLID WIRE: P/N 20274

The ground screw is screwed into and bonds the metal junction box. The two (2) stranded wire grounding conductors with the flanged spade terminals from this PigTail grounds each receptacle. The solid wire conductor on the PigTail connects by wire nut to the incoming ground conductor in the conduit and bonds back to the service panel.



### DUAL-GANG STRANDED WIRE: P/N 20275

The ground screw is screwed into and "grounds" the metal junction box and is bonded back to the service-grounded panel. Two (2) stranded wire grounding conductors with flanged spade terminals from this PigTail ground each receptacle. The stranded wire grounding conductor on the PigTail connects by wire nut to the ground conductor from the incoming cable.



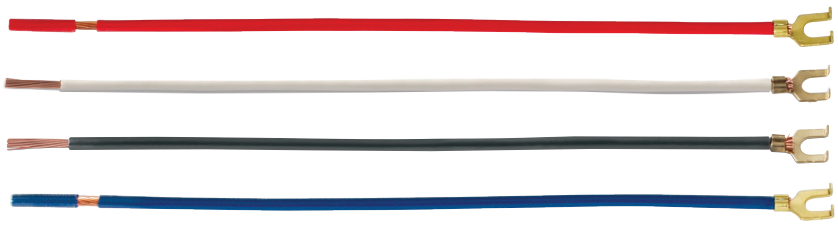
## POWERTAILS DEVICE WIRING CONDUCTORS (12 AWG ONLY)

- Labor and Time Savings! Used by contractors that wire Commercial and Industrial buildings when using single and/or multi-gang metal boxes.
- UL Recognized.
- Provides installation speed and a reliable connection when bringing power to multiple devices. Perfect for pre-wiring devices in the contractor's shop or on the job site.
- 8" Black, White, Blue, or Red leads feature a factory crimped Flanged Spade Terminal that slips under the terminal screw on the device.
- Manufactured using flexible 12 AWG stranded wire to easily push into the junction box.
- Meet the requirements of the 2023 National Electrical Code: Articles 110.14(A) and (B).

### REFERENCE GUIDE — STRANDED POWERTAILS DEVICE WIRING CONDUCTORS (12 AWG)

**PART NUMBERS**

20261: Red (BAG)
10061: Red (BULK)
20262: White (BAG)
10062: White (BULK)
20265: Black (BAG)
10065: Black (BULK)
20277: Blue (BAG)
10077: Blue (BULK)



c UL us
PROCESSED WIRE

| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 20261 | 20261 | 8", Red, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10061 | 10061 | 8", Red, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20262 | 20262 | 8", White, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10062 | 10062 | 8", White, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20265 | 20265 | 8", Black, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10065 | 10065 | 8", Black, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |
| 20277 | 20277 | 8", Blue, One (1) Flanged Spade Terminal, Stripped 5/8" (BAG) | PKG | 50 | BG | 20 | 1000 | 50 | Yes | 9 |
| 10077 | 10077 | 8", Blue, One (1) Flanged Spade Terminal, Stripped 5/8" (BULK) | PKG | 1000 | BN | 1000 | 1000 | 1000 | Yes | 18 |

**UNITS OF MEASURE KEY**
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EPCO Ground Bonding PigTails are Made in the USA. Complies with the American Recovery and Reinvestment Act – Buy American Provision.

## GROUND SCREWS

Our Ground Screws are manufactured in compliance with the Restriction of Hazardous Substances (RoHS) European Directive. These Screws (#10-32 x .375") meet the requirements of the 2023 National Electrical Code: Article 250.8.



GSH Ground Screw
Hex Head Screw

***GSH — Hex Head Screw*** – Combination slotted, Phillips and square drive tapered point screw used to simplify wiring installations when pre-tapped holes exist in metal boxes.



GSC Ground Screw
Cutting Point Screw

***GSC — Cutting Point Screw*** – Combination hex head, slotted, Phillips and square drive screw for use in metal boxes when holes have not been pre-tapped.

***Note:*** *The Directive of the 2002/95/EC European Union (EU), restricts the use of certain hazardous substances in electrical and electronic equipment. Those substances are Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs.*

## GROUND CLIPS

Our Ground Clips are an excellent time and labor saving alternative to Ground Screws and are specifically designed for termination of the grounding conductor and should be used when a 10-32 hole is not pre-drilled or tapped into a metallic junction box.



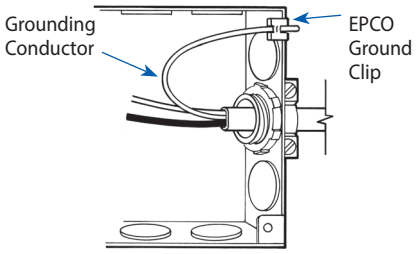
Ground Clip

Since ground clips are forced onto the outside edge of the junction box, we recommend using a "new" clip instead of re-using the old clip. Clips should never be forced onto the round portion of a plaster ring or a poor electrical connection will result.

### INSTALLATION PROCEDURE

The correct way to install a ground clip is to feed the grounding conductor into the ground clip with the shorter part of the ground clip placed inside the junction box.

Then use the flat blade of a screwdriver to force the ground clip onto the junction box to ensure a good electrical connection. See illustration.




RoHS ✓ Compliant 2002/95/EC

| Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/ Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Ground Screws** | | | | | | | | | | |
| GSH | 10051 | **GSH:** Slotted, #2 Phillips, Hex Head, #2 Robertson with Tapered Die Point - Green | PKG | 100 | PKG | 10 | 1000 | 100 | Yes | 1 |
| 20051 | 20051 | **GSH:** Bulk | C | 1000 | BN | 1000 | 1000 | 1000 | Yes | 10 |
| GSC | 10053 | **GSC:** Slotted, #2 Phillips, Hex Head with Cutting Point - Green | PKG | 100 | PKG | 10 | 1000 | 100 | Yes | 1 |
| 20053 | 20053 | **GSC:** Bulk | C | 1000 | BN | 1000 | 1000 | 1000 | Yes | 10 |
| **Ground Clips** | | | | | | | | | | |
| GC | 10052 | **Ground Clip:** for 14 AWG -12 AWG Solid Wire | PKG | 100 | PKG | 10 | 1000 | 100 | Yes | 1 |
| 20052 | 20052 | **GC:** Bulk | C | 1000 | BN | 1000 | 1000 | 1000 | Yes | 10 |

***Note:*** *Ground Screws listed above are used in our Ground Bonding PigTails.*

****Contractor preferred***

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E02-024-000 (07/24 AK)
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ENGINEERED PRODUCTS CO.