GROUND BONDING PRODUCTS

GROUND BONDING PIGTAILS –
INSULATED SOLID WIRE (12 AWG AND 14 AWG)

- UL Listed.
- EPCO’s Solid Wire Ground Bonding PigTails are recommended for use in metal box applications.
- Features a captive GSH or GSC Green Ground Screw on one end, the other end is pre-stripped 1”.
- Available in 6.5”, 8”, 10” and 12” lengths.
- Typical applications:
  - Ground bonding in a power distribution box, junction box or multi-gang receptacle box.
  - When a standard Stranded Wire PigTail is not required.
- Meets the requirements of the 2014 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>UPC Number</th>
<th>Description</th>
<th>Order Unit</th>
<th>Unit Qty</th>
<th>Unit Pkg</th>
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<th>Ship Wt (Lbs)</th>
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</tbody>
</table>

*Contractor preferred

REFERENCE GUIDE – INSULATED SOLID WIRE PIGTAILS (12 AWG AND 14 AWG)

PART NUMBERS

- 20016: 6.5-Inch
- 20086: 8-Inch
- 20088: 10-Inch
- 20009*: 6.5-Inch
- 20011*: 8-Inch
- 20087: 10-Inch
- 20010: 6.5-Inch (14 AWG)
- 20091: 8-Inch (14 AWG)
- 20087: 10-Inch (14 AWG)

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 unit per Carton

Specifications subject to change without prior notice.
GROUND BONDING PRODUCTS

GROUND BONDING PIGTAILS –
INSULATED STRANDED WIRE (12 AWG AND 14 AWG)

- UL Listed.
- Labor and Time Savings!
- EPCO's Stranded Wire Ground Bonding PigTails can save the Contractor up to 50 cents per installation.
- Meets the requirements of the 2014 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).
- Factory-crimped Flanged Spade Terminal or Ring Terminal meets the requirements of the 2014 National Electrical Code: Article 110.4 and provides precise electrical terminations.
- Typical applications: Ground bonding in a power distribution box, junction box or multi-gang receptacle box.

<table>
<thead>
<tr>
<th>Catalog Number</th>
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Contractor preferred

UNITOS 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

Specifications subject to change without prior notice.

www.engproducts.com
SINGLE AND DUAL-GANG GROUND BONDING PIG TAILS™ (12 AWG)

- Labor and Time Savings!
- UL Listed.
- Matched Flanged Spade and Ring Terminals ensure a safe, reliable ground connection.
- Meets the requirements of the 2014 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).

Reprinted from the 2014 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).

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### Catalog Number | UPC Number | Description | Order Unit | Unit Qty | Unit Pkg | Units/Case | TL Case Qty | Min Order Qty | MM Req | Ship Wt (Lbs) |
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<td>Single-Gang PigTail: One (1) 8&quot; Solid Wire Incoming Lead - Stripped 1&quot;, One (1) 8&quot; Stranded Wire Conductor with One (1) Flanged Spade Terminal, GSH Ground Screw</td>
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<td>PKG</td>
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<td>20070</td>
<td>Dual-Gang PigTail: Two (2) 8&quot; Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, GSH Ground Screw</td>
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**POWER TAILS WITH 1 FLANGED TERMINAL**

Part Numbers: 20065 (Black) and 20062 (White)

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**PART NUMBERS**

20008: 8-Inch* PigTail: One (1) Flanged Spade Terminal - Stripped 5/8”.

20041: 8-Inch PigTail: One (1) Flanged Spade Terminal and a captive GSC Ground Screw.

20020: 10-Inch PigTail: One (1) Flanged Spade Terminal and a captive GSH Ground Screw.

20026: 12-Inch PigTail: One (1) Flanged Spade Terminal and a captive GSH Ground Screw.

20003: 8-Inch (14 AWG) PigTail: One (1) Flanged Spade Terminal and a captive GSH Ground Screw.

2004: 8-Inch* PigTail: One (1) Flanged Spade Terminal and a captive GSH Ground Screw.

20019: 10-Inch PigTail: Ring Terminal and a captive GSH Ground Screw - Stripped 5/8”.

20025: 12-Inch PigTail: Ring Terminal and a captive GSH Ground Screw - Stripped 5/8”.

20029: 8-Inch* PigTail: Ring Terminal and a captive GSH Ground Screw - Stripped 5/8”.

20036: 8-Inch PigTail: Ring Terminal and a captive GSC Ground Screw.

20035: 10-Inch PigTail: Ring Terminal and a captive GSC Ground Screw.

---

**UNITS OF MEASURE KEY**

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Specifications subject to change without prior notice.

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www.engproducts.com
**GROUND BONDING PRODUCTS**

**REFERENCE GUIDE – SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS (12 AWG)**

**PART NUMBERS**

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<thead>
<tr>
<th>Catalog Number</th>
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</table>

**POWERTAILS® DEVICE WIRING CONDUCTORS (12 AWG)**

- UL Listed.
- Labor and Time Savings! Used by Contractors that wire Commercial and Industrial buildings when using single and/or multi-gang metal boxes.
- 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" Length Black and White 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.
- Meets the requirements of the 2014 National Electrical Code: Articles 110.14(A) and (B).

**REFERENCE GUIDE – POWERTAILS DEVICE WIRING CONDUCTORS (12 AWG)**

**PART NUMBERS**

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<th>Description</th>
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<td>White PowerTail: Stranded Wire Conductor with One (1) Flanged Spade Terminal – Stripped 5/8&quot;</td>
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<td>20065</td>
<td>Black</td>
<td>(THHN)</td>
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**UNITS OF MEASURE KEY**

- Order Unit: The Unit to be ordered;
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- 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 PowerTails are Made in the USA. Complies with the American Recovery and Reinvestment Act – Buy American Provision.

Specifications subject to change without prior notice.

www.engproducts.com
**SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS – APPLICATION EXAMPLES**

**SINGLE-GANG SOLID WIRE: 20067**

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: 20068**

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: 20070**

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 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: 20074**

The ground screw is screwed into and bonds the metal junction box. The two 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: 20075**

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.
GROUND BONDING PRODUCTS

GROUND SCREWS
Engineered Products Company’s Ground Screws and Ground Clip products are manufactured in compliance with the Restriction of Hazardous Substances (RoHS) European Directive. EPCO’s Green Ground Screws (#10-32 x .375”) meet the requirements of the 2014 National Electrical Code: Article 250.8.

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.

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.

Note: Beginning July 1, 2006, Directive 2002/95/EC, of the 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

- Excellent time and labor saving alternative to using Ground Screws.

EPCO’s Ground Clips 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.

Since ground clips are forced onto the junction box, EPCO recommends using a “new” ground clip instead of re-using the old ground clip. Ground 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.

Specifications subject to change without prior notice.

www.engproducts.com
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