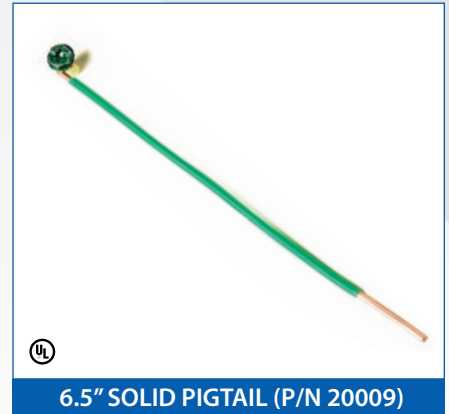


# GROUND BONDING PRODUCTS

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

- UL Listed.
- Our Solid Wire Ground Bonding PigTails are recommended for use in metal box applications.
- Meets the requirements of the 2017 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 1".
- Available in 6.5", 8", 10" and 12" lengths.
- Typical applications:
  - When a standard Stranded Wire PigTail is not required.
  - Ground bonding in a power distribution box, junction box or multi-gang receptacle box.



6.5" SOLID PIGTAIL (P/N 20009)

**Note:** See Page 6 for detailed descriptions on the differences between the GSH and GSC Ground Screws.

Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
<b>With GSH Ground Screw</b>										
20009*	20009	6.5" PigTail: Captive GSH Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	9
10009*	10009	6.5" PigTail (BULK): Captive GSH Ground Screw – Stripped 1"	PKG	1000	BN	1000	1000	1000	Yes	18
20010	20010	6.5" PigTail (14 AWG): Captive GSH Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	7
10010	10010	6.5" PigTail (14 AWG) (BULK): Captive GSH Ground Screw – Stripped 1"	PKG	1000	BN	1000	1000	1000	Yes	14
20011*	20011	8" PigTail: Captive GSH Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	11
10011*	10011	8" PigTail (BULK): Captive GSH Ground Screw – Stripped 1"	PKG	1000	BN	1000	1000	1000	Yes	22
20087	20087	10" PigTail: Captive GSH Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	13
<b>With GSC Ground Screw</b>										
20016	20016	6.5" PigTail: Captive GSC Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	9
10016	10016	6.5" PigTail (BULK): Captive GSC Ground Screw – Stripped 1"	PKG	1000	BN	1000	1000	1000	Yes	18
20086	20086	8" PigTail: Captive GSC Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	11
20088	20088	10" PigTail: Captive GSC Ground Screw – Stripped 1"	PKG	50	PKG	10	500	50	Yes	13

**\*Contractor preferred**

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

#### PART NUMBERS

20009: 6.5-Inch*		PigTail: With captive GSH Ground Screw - Stripped 1".
10009: 6.5-Inch (BULK)*		
20010: 6.5-Inch (14 AWG)		
10010: 6.5-Inch (14 AWG) (BULK)		
20011: 8-Inch*		
10011: 8-Inch (BULK)*		PigTail: With captive GSC Ground Screw - Stripped 1".
20087: 10-Inch		
20016: 6.5-Inch		
10016: 6.5-Inch (BULK)		
20086: 8-Inch		
20088: 10-Inch		



GSH Ground Screw



GSC Ground Screw

**\*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.

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**ENGINEERED PRODUCTS CO.**

# GROUND BONDING PRODUCTS

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

- UL Listed.
- Labor and Time Savings!
- Our Stranded Wire Ground Bonding PigTails can save the contractor up to 50 cents per installation.
- Meets the requirements of the 2017 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 2017 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.



8" STRANDED PIGTAIL (P/N 20004)

**Note:** See Page 6 for detailed descriptions on the differences between the GSH and GSC Ground Screws.

Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
<b>Without Ground Screws</b>										
20008*	20008	8" PigTail: One (1) Flanged Spade Terminal – Stripped 5/8"	PKG	50	PKG	10	500	50	Yes	13
10008*	10008	8" PigTail (BULK): One (1) Flanged Spade Terminal – Stripped 5/8"	PKG	1000	BN	1000	1000	1000	Yes	26
<b>With GSH Ground Screw</b>										
20003	20003	8" PigTail (14 AWG): One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	50	PKG	10	500	50	Yes	16
10003	10003	8" PigTail (14 AWG) (BULK): One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	1000	BN	1000	1000	1000	Yes	32
20004*	20004	8" PigTail: One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	50	PKG	10	500	50	Yes	13
10004*	10004	8" PigTail (BULK): One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	1000	BN	1000	1000	1000	Yes	26
20019	20019	10" PigTail: One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	50	PKG	10	500	50	Yes	15
20025	20025	12" PigTail: One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	50	PKG	10	500	50	Yes	17
20029*	20029	8" PigTail: Ring Terminal, captive GSH Ground Screw - Stripped 5/8"	PKG	50	PKG	10	500	50	Yes	12
<b>With GSC Ground Screw</b>										
20020	20020	10" PigTail: Ring Terminal, captive GSC Ground Screw, One (1) Flanged Spade Terminal	PKG	50	PKG	10	500	50	Yes	15
20026	20026	12" PigTail: Ring Terminal, captive GSC Ground Screw, One (1) Flanged Spade Terminal	PKG	50	PKG	10	500	50	Yes	17
20035	20035	10" PigTail: Ring Terminal, captive GSC Ground Screw - Stripped 5/8"	PKG	50	PKG	10	500	50	Yes	14
20036	20036	8" PigTail: Ring Terminal, captive GSC Ground Screw - Stripped 5/8"	PKG	50	PKG	10	500	50	Yes	12
20041	20041	8" PigTail: Ring Terminal, captive GSC Ground Screw, One (1) Flanged Spade Terminal	PKG	50	PKG	10	500	50	Yes	13
10041	10041	8" PigTail (BULK): Ring Terminal, captive GSC Ground Screw, One (1) Flanged Spade Terminal	PKG	1000	BN	1000	1000	1000	Yes	26

**\*Contractor preferred**

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

### PART NUMBERS

20008: 8-Inch\* PigTail: One (1) Flanged Spade Terminal - Stripped 5/8".  
 10008: 8-Inch (BULK)\*



20003: 8-Inch (14 AWG) PigTail: One (1) Flanged Spade Terminal and a captive GSH Ground Screw.  
 10003: 8-Inch (14 AWG) (BULK)

20004: 8-Inch\*  
 10004: 8-Inch (BULK)\*  
 20019: 10-Inch  
 20025: 12-Inch



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



20041: 8-Inch PigTail: One (1) Flanged Spade Terminal and a captive GSC Ground Screw.  
 10041: 8-Inch (BULK)  
 20020: 10-Inch  
 20026: 12-Inch



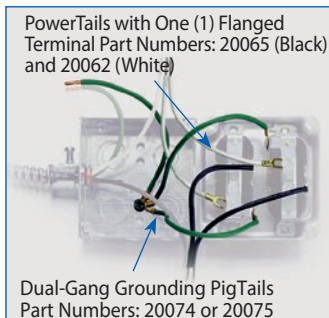
20036: 8-Inch PigTail: Ring Terminal and a captive GSC Ground Screw - Stripped 5/8".  
 20035: 10-Inch



**\*Contractor preferred**

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

- Labor and Time Savings!
- UL Listed.
- Matched Flanged Spade and Ring Terminals ensure a safe, reliable ground connection.
- Meets the requirements of the 2017 National Electrical Code: Articles 110.14(A) and (B) and 250.8(A).



Part Number: 20074



Reprinted from the 2017 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).

Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
20067	20067	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	PKG	10	200	20	Yes	9
20068	20068	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	PKG	10	200	20	Yes	9
20070*	20070	Dual-Gang PigTail: Two (2) 8" Stranded Wire Conductors, each with One (1) Flanged Spade Terminal, captive GSH Ground Screw	PKG	20	PKG	10	200	20	Yes	10
20074*	20074	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	PKG	10	200	20	Yes	11
20075	20075	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	PKG	10	200	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






Specifications subject to change without prior notice.

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

# GROUND BONDING PRODUCTS

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

### PART NUMBERS

20067: 8-Inch	Single-Gang PigTail: One (1) 8" Solid Wire Incoming Lead - Stripped 1", One (1) 8" Stranded Wire Conductor with One (1) Flanged Spade Terminal and a captive GSH Ground Screw.	
20068: 8-Inch	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 and a captive GSH Ground Screw.	
20070: 8-Inch*	Dual-Gang PigTail: Two (2) 8" Stranded Wire, Conductors each with One (1) Flanged Spade Terminal and a captive GSH Ground Screw.	
20074: 8-Inch*	Dual-Gang PigTail: One (1) 8" Solid Wire Incoming Lead - Stripped 1", Two (2) 8" Stranded Wire Conductors with Two (2) Flanged Spade Terminals and a captive GSH Ground Screw.	
20075: 8-Inch	Dual-Gang PigTail: One (1) 8" Stranded Wire Incoming Lead - Stripped 5/8", Two (2) 8" Stranded Wire Conductors with Two (2) Flanged Spade Terminals and a captive GSH Ground Screw.	

**\*Contractor preferred**

## POWERTAILS DEVICE WIRING CONDUCTORS (12 AWG ONLY)

- UL Recognized.
- Labor Savings Tool! 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 or 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 2017 National Electrical Code: Articles 110.14(A) and (B).

Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
20062	20062	8" PowerTail: White, Stranded Wire Conductor with One (1) Flanged Spade Terminal – Stripped 5/8"	PKG	50	PKG	10	500	50	Yes	9
10062	10062	8" PowerTail (BULK): White, Stranded Wire Conductor with One (1) Flanged Spade Terminal – Stripped 5/8"	PKG	1000	BN	1000	1000	1000	Yes	18
20065	20065	8" PowerTail: Black, Stranded Wire Conductor with One (1) Flanged Spade Terminal – Stripped 5/8"	PKG	50	PKG	10	500	50	Yes	9
10065	10065	8" PowerTail (BULK): Black, Stranded Wire Conductor with One (1) Flanged Spade Terminal – Stripped 5/8"	PKG	1000	BN	1000	1000	1000	Yes	18

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

### PART NUMBERS


20062: White	PowerTail: Stranded Wire Conductor with One (1) Flanged Spade Terminal – Stripped 5/8".	
10062: White (BULK)		
20065: Black		
10065: Black (BULK)		



### 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

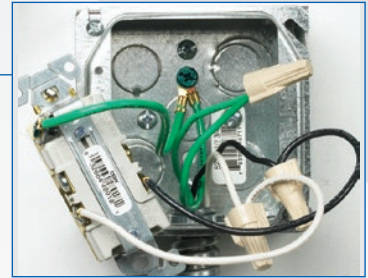
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## SINGLE AND DUAL-GANG GROUND BONDING PIGTAILS — APPLICATION EXAMPLES

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



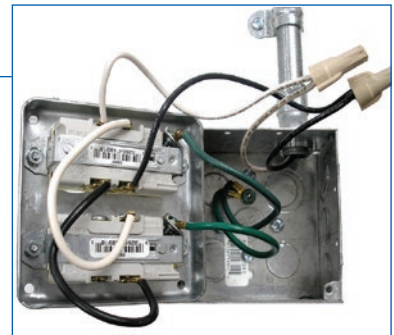
### SINGLE-GANG STRANDED WIRE: P/N 20068

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.



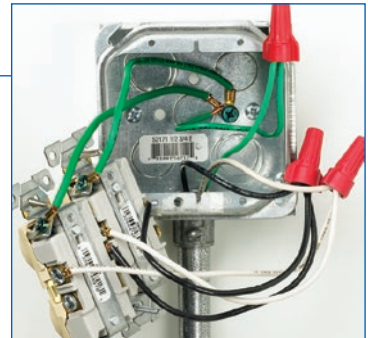
### DUAL-GANG STRANDED WIRE: P/N 20070

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 (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.



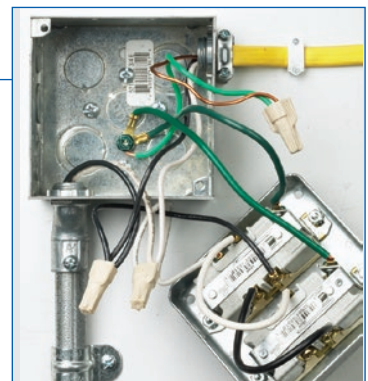
### DUAL-GANG SOLID WIRE: P/N 20074

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 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

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 2017 National Electrical Code: Article 250.8.

**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 — 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

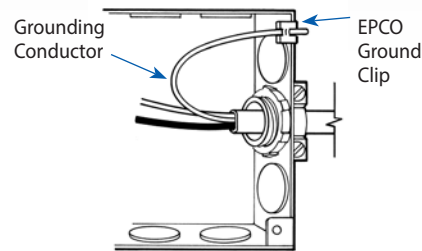
Our Ground Clips are an excellent time and labor saving alternative to Ground Screws and are specifically designed for termination of the grounding conductor and should be used when a 10-32 hole is not pre-drilled or tapped into a metallic junction box.

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.



Catalog Number	UPC Number	Description	Order Unit	Unit Qty	Unit Pkg	Units/ Case	TL Case Qty	Min Order Qty	MM Req	Ship Wt (Lbs)
<b>Ground Screws</b>										
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
<b>Ground Clips</b>										
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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