

COPPERHEAD INDUSTRIES

Complete Utility Locating System™

Protecting Underground Utility Assets



TELECOM





THE COMPLETE UTILITY LOCATING SYSTEM™

Copperhead Industries believes that utilities and contractors should have complete confidence in the products they use to protect underground infrastructures.

We understand underground utility construction and the concerns around accurate utility detection long after fiber optic cables are buried. We also understand accurate, efficient locating and the importance of establishing strong grounds in order to complete the electrical circuit required for detection. We know that without a reliable tracer wire system, underground utility assets are jeopardized.

THE COMPLETE UTILITY LOCATING SYSTEM™ combines 100+ years of cladding experience, American innovation and ingenuity, knowledge of underground utility construction, and in-depth utility locating

expertise to provide the strongest, most reliable tracer wire system on the market. The system includes Copperhead® copper-clad steel tracer wire designed specifically for open cut, directional drilling, and pipe bursting applications, corrosion-proof locking connectors, drive-in magnesium ground rods, access points, and locating equipment to provide the most reliable end-to-end signal for utility locating.

WHY?

To safeguard what matters most. Protect your investment. Protect your infrastructure. Specify Copperhead's Complete Utility Locating System for your next underground utility construction project.

COPPERHEAD SET THE STANDARD FOR TRACER WIRE SYSTEMS.

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KEY STEPS

Pinpoint the exact location of underground utilities with Copperhead's Complete Utility Locating System™

1 CONDUCT

The right tracer wire matters. Choose 100% American-made Copperhead® copper-clad steel wire designed for open cut, directional drill, and pipe bursting, with a protective high density polyethylene (HDPE) jacket.



2 CONNECT

Solid connections are critical to allowing the locate signal to continue throughout the tracer wire system. Make sure connectors are corrosion-proof with non-hardening dielectric silicone sealant.



3 GROUND

Properly grounding the tracer wire system is the difference between being able to locate your utility, or not. Use a Copperhead® drive-in magnesium ground rod at all dead ends to pull the signal to the target.



4 ACCESS

Directly connect to your tracer wire system, protect tracer wire termination points, and turn ground on/off to isolate different sections of the tracer wire system with Copperhead® access points.



5 LOCATE

Locate tracer wire and other buried objects as needed and at the time of rough grade and before final acceptance of the project with multi-function Copperhead® locating equipment.

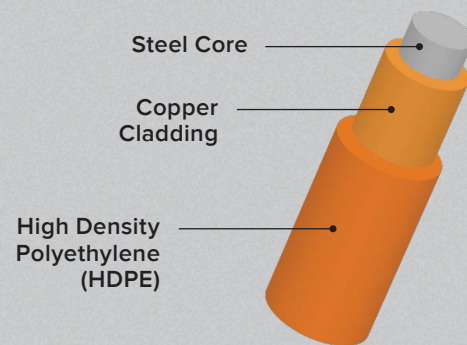




CONDUCT

WHY COPPERHEAD® COPPER-CLAD STEEL (CCS) TRACER WIRE

Not all CCS is created equal. Pioneered by Copperhead Industries, CCS tracer wire is simply the best choice for accurate and efficient underground utility detection. Strong and highly conductive. Corrosion resistant. And withstands the rigors of underground construction. CCS combines the strength of fully annealed high-carbon steel with the conductivity of copper, all in one high-performance wire.



CCS offers several advantages over solid copper:

- More durable
- Longer lasting
- Stronger — up to six times the break load
- Reduced material cost
- More stable, longer-term pricing
- Reduced threat of theft due to lack of after-market value
- Lower shipping and handling cost due to lighter weight
- HDPE jacket rated for direct bury

CCS is a bimetallic product manufactured by metallurgically bonding two metals with heat and pressure making them inseparable. Only our cladding process ensures that the wire is free of gaps in the metals, resulting in a consistent signal and strength over the entire length of the wire. Copperhead CCS tracer wire is insulated with a protective high-density polyethylene (HDPE) jacket designed for direct bury.

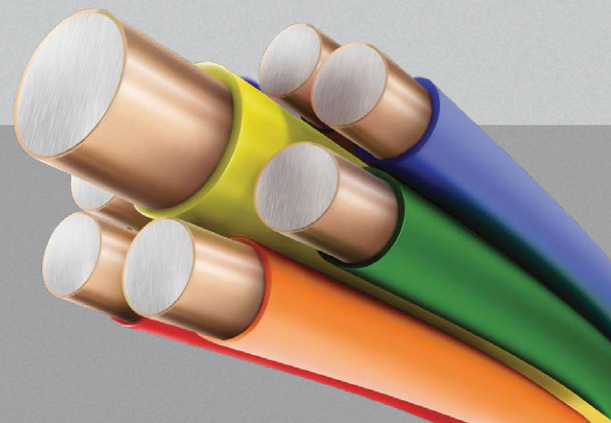
THE RIGHT TRACER WIRE FOR THE JOB

Tough jobs require tough wire. But not all jobs need the same tracer wire. That's why Copperhead tracer wire comes in multiple strengths and lengths, and is color coded to meet American Public Works Association (APWA) standards. From open cut, to directional drilling, to pipe bursting — whatever the application, Copperhead has the right wire for your project.

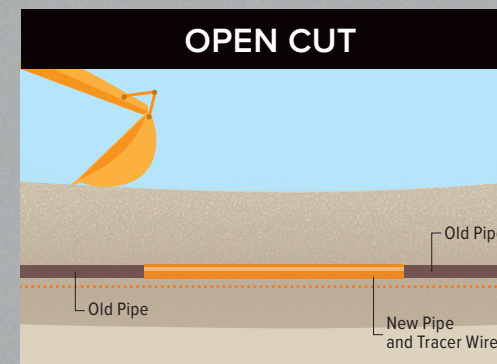
AMERICAN PUBLIC WORKS ASSOCIATION (APWA) UNIFORM COLOR CODE

- COMMUNICATION
- GAS
- POTABLE WATER
- SANITARY & STORM SEWER
- RECLAIMED WATER
- ELECTRIC

For tracer wire use only



Copperhead CCS tracer wire is the best at protecting your underground utility assets from future damage.



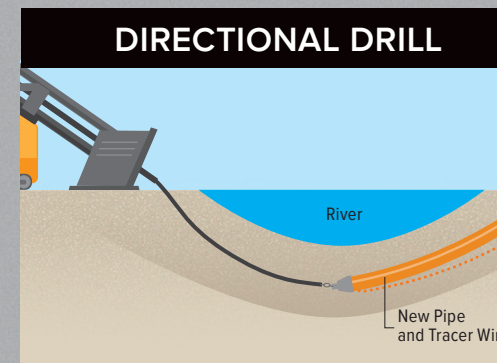
Open cut trenching is the traditional method for excavation used to expose existing or install new utilities where there are no buildings or other obstructions, then backfilling the trench.

High Strength

- Most specified tracer wire for open cut applications
- 2 times the break load of solid copper
- Heavy-duty applications
- Industry exclusive in strength and reliability

SuperFlex™

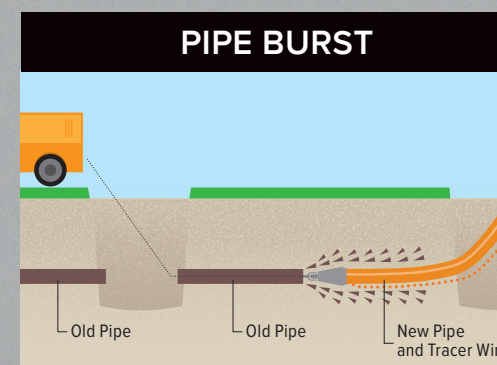
- As flexible as solid copper
- Light-duty applications
- Economical



Directional drilling is a trenchless method of installing underground utilities that involves drilling along a chosen bore path to install utilities that need to go under roads, sidewalks, or other obstructions.

SoloShot™ Extra-High Strength

- Engineered to handle the rigors of directional drilling
- 6 times the break load of solid copper
- Pulls through the first time
- No need to pull multiple wires



Pipe bursting is a trenchless method of replacing old buried pipes with new replacement pipe by bursting the old pipe and pulling new pipe in its place.

SoloShot™ Xtreme

- Strongest, most durable tracer wire
- Designed to withstand the volatile environment of pipe bursting and critical bores
- Highest break load
- Toughest protective jacket
- No need to run multiple wires



CONNECT

A tracer wire system is only as good as its weakest connection. Waterproof, corrosion-proof connectors protect vulnerable wire splices and keep the locate signal flowing across connections. All Copperhead connectors are designed for direct bury.



SnakeBite™ Locking Connector

- No wire stripping needed
- Exclusive 90-degree twist-lock design
- Connects up to 3 wires
- Simply insert wires, twist, and lock
- Won't open during backfilling
- Waterproof, corrosion-proof
- Dielectric non-hardening silicon sealant



Mainline-to-Service Connector

- Connects service lateral tracer wire to mainline tracer wire
- No need to cut the mainline tracer wire
- 3-way connection
- Outer lid locks down in 3 places
- Waterproof, corrosion-proof
- Dielectric non-hardening silicon sealant



Twist-on Connectors

- Waterproof, corrosion-proof
- Dielectric non-hardening silicon sealant
- Regular size connects up to 4 wires
- Large size connects up to 6 wires



Pipe Burst Connectors

- Works with SoloShot™ Xtreme tracer wire
- Handles variety of wire size combinations
- Includes wax pack to protect wires from corrosion

GROUND

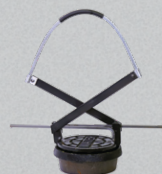
Grounding all tracer wire dead ends is essential for completing the electrical circuit needed for line detection.



Ground Rod

- Pulls the electrical current emitted by the locate transmitter down the tracer wire for detection
- 1.5 lb drive-in magnesium ground rod
- HDPE cap provides sturdy drive-in surface
- 20' copper-clad steel wire with 30 mil HDPE jacket

OTHER PRODUCTS



Valve Cover Lifter

- Lifts dual pick point valve covers
- Single-handed operation
- Lightweight



ACCESS

Access Points are used to protect and provide direct connection to tracer wire systems. The multi-terminal SnakePit and Cobra Access Points also allow external connection and disconnection to ground rod wire.



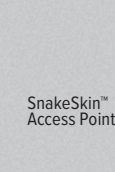
SnakePit® Access Points

- Ground-level access
- Available with patent-pending Two-terminal Switchable Lid which allows locators to switch ground off and on from top of lid; no need to remove lid
- Encapsulated magnet provides easy detection by ferrous metal detector
- Anti-corrosion gel to protect wires
- Lid color-coded to meet APWA standards for utility detection



Cobra™ Access Points

- Above-ground access
- Multiple mounting options: post, stake
- Can be used with rigid or flexible PVC conduit
- Color-coded to meet APWA standards for utility detection



SnakeSkin™ Access Point

- Above-ground access
- No ground connection
- Color-coded to meet APWA standards for utility detection

LOCATE

The ViperMag™ is a general-purpose locator designed to locate pipes and cables, as well as Copperhead's Complete Utility Locating System™.

STANDARD EQUIPMENT



INCLUDES: receiver, transmitter, direct connection cables, ground rod, alkaline batteries, soft sided case, user guide

OPTIONAL EQUIPMENT



ViperMag™ Pipe and Cable Locator

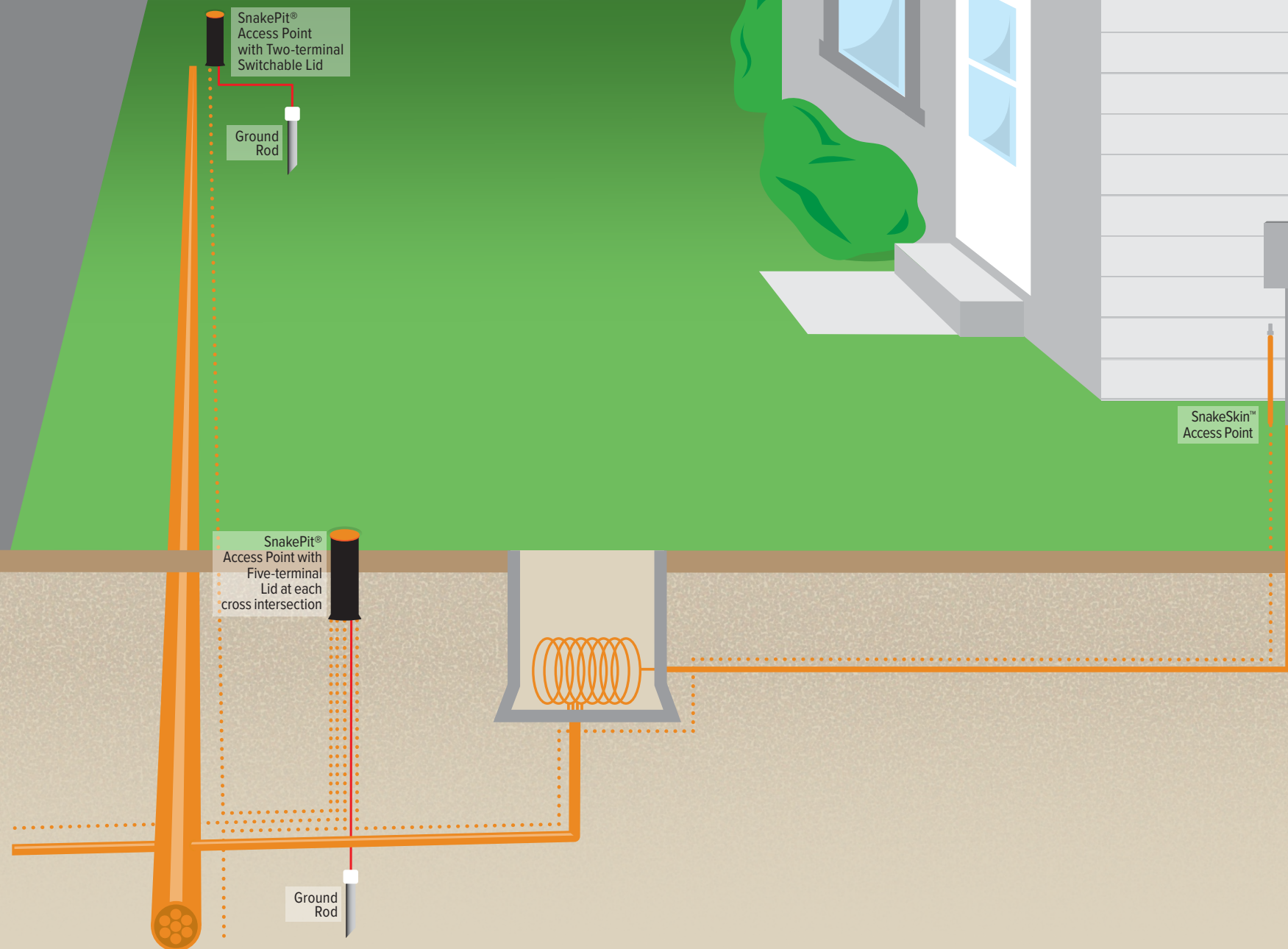
- Active locating frequencies (512 Hz, 8.19 kHz, 83 kHz)
- Passive power locating (60 Hz)
- Conductive or inductive locating
- Ferrous metal detection – magnetic north/south indicator
- Optional fault find mode (8 kHz)



THE COMPLETE UTILITY LOCATING SYSTEM™

Superior protection of buried utility systems such as natural gas, propane, oil, potable water, reclaimed water, sanitary and storm sewer, telecommunications, and others.

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Note: This graphic is for demonstration purposes only. Not to scale.

TRACER WIRE

| Product Name | Part Number | Application | Wire Gauge | Spool Size | Break Load | Coating Thickness |
|-----------------|--------------|-------------------------------|-------------------------------------|--|------------|-------------------|
| SuperFlex | 1830*-SF-** | Open Cut | 18 awg | 500, 1000, 2500 | 75 lb | 30 mil |
| SuperFlex | 1845*-SF-** | Open Cut | 18 awg | 500, 1000, 2500 | 75 lb | 45 mil |
| SuperFlex | 1630*-SF-** | Open Cut | 16 awg | 500, 1000, 2500 | 115 lb | 30 mil |
| SuperFlex | 1645*-SF-** | Open Cut | 16 awg | 500, 1000, 2500 | 115 lb | 45 mil |
| SuperFlex | 1430*-SF-** | Open Cut | 14 awg | 500, 1000, 2500 | 194 lb | 30 mil |
| SuperFlex | 1445*-SF-** | Open Cut | 14 awg | 500, 1000, 2500 | 194 lb | 45 mil |
| SuperFlex | 1230*-SF-** | Open Cut | 12 awg | 500, 1000, 2500 | 302 lb | 30 mil |
| SuperFlex | 1245*-SF-** | Open Cut | 12 awg | 500, 1000, 2500 | 302 lb | 45 mil |
| SuperFlex | 1030*-SF-** | Open Cut | 10 awg | 500, 1000, 2500 | 513 lb | 30 mil |
| SuperFlex | 1045*-SF-** | Open Cut | 10 awg | 500, 1000, 2500 | 513 lb | 45 mil |
| High Strength | 1830*-HS-** | Open Cut | 18 awg | 500, 1000, 2500 | 107 lb | 30 mil |
| High Strength | 1845*-HS-** | Open Cut | 18 awg | 500, 1000, 2500 | 107 lb | 45 mil |
| High Strength | 1630*-HS-** | Open Cut | 16 awg | 500, 1000, 2500 | 144 lb | 30 mil |
| High Strength | 1645*-HS-** | Open Cut | 16 awg | 500, 1000, 2500 | 144 lb | 45 mil |
| High Strength | 1430*-HS-** | Open Cut | 14 awg | 500, 1000, 2500 | 282 lb | 30 mil |
| High Strength | 1445*-HS-** | Open Cut | 14 awg | 500, 1000, 2500 | 282 lb | 45 mil |
| High Strength | 1230*-HS-** | Open Cut | 12 awg | 500, 1000, 2500 | 452 lb | 30 mil |
| High Strength | 1245*-HS-** | Open Cut | 12 awg | 500, 1000, 2500 | 452 lb | 45 mil |
| High Strength | 1030*-HS-** | Open Cut | 10 awg | 500, 1000, 2500 | 684 lb | 30 mil |
| High Strength | 1045*-HS-** | Open Cut | 10 awg | 500, 1000, 2500 | 684 lb | 45 mil |
| High Strength | 830*-HS-** | Open Cut | 8 awg | 500, 1000, 2500 | 830 lb | 30 mil |
| High Strength | 845*-HS-** | Open Cut | 8 awg | 500, 1000, 2500 | 830 lb | 45 mil |
| SoloShot EHS | 1245*-EHS-** | Directional Drill | 12 awg | 500, 1000, 2500 | 1150 lb | 45 mil |
| SoloShot EHS | 1045*-EHS-** | Directional Drill | 10 awg | 500, 1000, 2500 | 2032 lb | 45 mil |
| SoloShot EHS | 845*-EHS-** | Directional Drill | 8 awg | 500, 1000, 2500 | 2785 lb | 45 mil |
| SoloShot Xtreme | PBX-50*-** | Pipe Burst and Critical Bores | 3/16" 7x7 stranded CCS | Custom min qty 500' qty discount at 5,000' + | 4700 lb | 50 mil |
| SoloShot Burst | 3/16*-PB-** | Pipe Burst | 3/16" 7x19 stranded stainless steel | Custom min qty 500' | 3700 lb | 45 mil |

*Denotes Color: B=Blue, G=Green, P=Purple, N=Orange, R=Red, W=White, Y=Yellow, K=Black **Denotes Spool Length: 500', 1000', 2500'

CONNECTORS

| Product Name | Part Number | Application | Package Quantity |
|---------------------------------------|-------------|---|--------------------------------------|
| SnakeBite Locking Connector | LSC1030C* | Main splice and/or service line, 10 awg | Jar qty of 10, 25 or bulk box of 100 |
| SnakeBite Locking Connector | LSC1230C* | Main splice and/or service line, 12 awg | Jar qty of 10, 25 or bulk box of 100 |
| SnakeBite Locking Connector | LSC1430C* | Main splice and/or service line, 14 awg | Jar qty of 10, 25 or bulk box of 100 |
| Twist-on Connector - Regular | SCB-01* | Main splice or dead end | Pkg qty 20 or bulk box of 100 |
| Twist-on Connector - Large | SCB-01-LG | Main splice or termination | Pkg qty 8 |
| Mainline-to-Service Connector | 3WB-01 | Mainline to service line | Pkg qty 10 |
| Pipe Burst Connector - In-line splice | SC-PB-01 | Main splice | Pkg qty 1 |
| Pipe Burst Connector - Two-way | SC-2WPB-01 | Main splice | Pkg qty 18 |
| Pipe Burst Connector - Three-way | SC-3WPB-01 | Main splice and/or service line | Pkg qty 18 |

*Denotes BULK (box of 100), CTR25 (jar of 25), CTR10 (jar of 10)

GROUND ROD

| Product Name | Part Number | Application | Wire Gauge |
|--------------|-------------|-----------------------|------------|
| Ground Rod | ANO-12 | Tracer wire grounding | 12 awg |
| Ground Rod | ANO-14 | Tracer wire grounding | 14 awg |

ACCESS POINTS

| Product Name | Part Number | Application | Terminals | Dimension |
|--|--------------------------|--|---------------|--------------------------|
| SnakePit Lite Duty, Single-Terminal | LD14*TP | Ground level, non-roadway, lite duty | 1 | 14.5" L |
| SnakePit Lite Duty, Two-Terminal Switchable | LD14*2T-SW | Ground level, non-roadway, lite duty | 2, Switchable | 14.5" L |
| SnakePit Lite Duty, Five-Terminal | LD14*5T | Ground level, non-roadway, lite duty | 5 | 14.5" L |
| SnakePit Lite Duty Adjustable, Single-Terminal | LD14*TP-ADJ | Ground level, non-roadway, fluctuations in grade | 1 | 18.625" - 24" L |
| SnakePit Lite Duty Adjustable, Two-Terminal Switchable | LD14*2T-ADJ-SW | Ground level, non-roadway, fluctuations in grade | 2, Switchable | 18.625" - 24" L |
| SnakePit Lite Duty Adjustable, Five-Terminal | L14*5T-ADJ | Ground level, non-roadway, fluctuations in grade | 5 | 18.625" - 24" L |
| SnakePit Lite Duty XL Adjustable, Single-Terminal | LDXL36*TP-ADJ | Ground level, non-roadway, heavy soil shifting | 1 | 36.25" - 41.625" L |
| SnakePit Lite Duty XL, Adjustable, Two-Terminal Switchable | LDXL36*2T-ADJ-SW | Ground level, non-roadway, heavy soil shifting | 2, Switchable | 36.25" - 41.625" L |
| SnakePit Lite Duty XL Adjustable, Five-Terminal | LDXL36*5T-ADJ | Ground level, non-roadway, heavy soil shifting | 5 | 36.25" - 41.625" L |
| SnakePit Concrete/Driveway, Single-Terminal | CD14*TP | Ground level, low traffic, driveway | 1 | 14.5" L |
| SnakePit Concrete/Driveway, Two-Terminal Switchable | CD14*2T-SW | Ground level, low traffic, driveway | 2, Switchable | 14.5" L |
| SnakePit Concrete/Driveway, Five-Terminal | CD14*5T | Ground level, low traffic, driveway | 5 | 14.5" L |
| SnakePit Roadway, Single-Terminal | RB14*TP | Ground level, roadway | 1 | 17" L |
| SnakePit Roadway, Two-Terminal Switchable | RB14*2T-SW | Ground level, roadway | 2, Switchable | 17" L |
| SnakePit Roadway, Five-Terminal | RB14*5T | Ground level, roadway | 5 | 17" L |
| Cobra | T1* | Above ground | 1 | Fits 1" conduit |
| Cobra | T2* | Above ground | 2 | Fits 1" conduit |
| Cobra | T3* | Above ground | 3 | Fits 1" conduit |
| Cobra Mounting Stake | T3-STAKE | Mount Cobra in any location | -- | |
| SnakeSkin | SNSK*-01 SNSK*-BULK25 | Above ground | 1 | Pkg qty 1 Bulk qty 25 |

*Denotes Color: B=Blue, G=Green, P=Purple, N=Orange, R=Red, Y=Yellow, K=Black

LOCATOR

| Product Name | Part Number | Application | Contents |
|---------------------------------|-------------|--|---|
| ViperMag Pipe and Cable Locator | VIP-MAG | Location of buried pipe and cable | Receiver, transmitter, direct connect cables, ground rod, batteries, soft-side case, user guide |
| ViperMag Hard Case | VIP-CASE | Storage and protection of ViperMag Pipe and Cable Locator and contents | Case only with custom cut foam inserts |
| Induction Clamp | VIP-CL2/4/5 | Apply locating signal to metal pipe when no tracer wire is present | 2", 4" or 5" Induction Clamp |
| A-Frame Locator | CI-A-Frame | Fault finding | A-Frame, soft-side bag, USB cable, user guide |



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