

COPPERHEAD INDUSTRIES

# Complete Utility Locating System<sup>®</sup>

Protecting Underground Utility Assets

Potable  
**WATER**

Sanitary & Storm  
**SEWER**

Reclaimed  
**WATER**



COPPERHEADWIRE.COM





# THE COMPLETE UTILITY LOCATING SYSTEM<sup>®</sup>

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 pipes and 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<sup>®</sup>** 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<sup>®</sup> 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.

# KEY STEPS

Pinpoint the exact location of underground utilities with Copperhead's Complete Utility Locating System<sup>®</sup>

## 1 CONDUCT

The right tracer wire matters. Choose 100% American-made Copperhead<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> locating equipment.



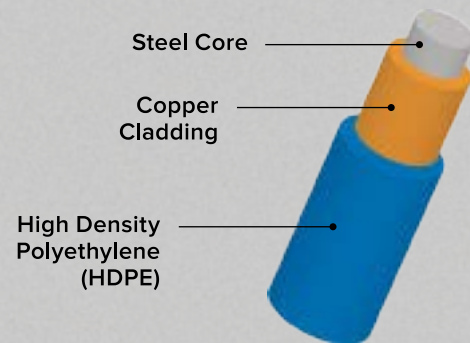
COPPERHEADWIRE.COM



## 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. Meets ASTM B1010, the highest quality standard for tracer 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.

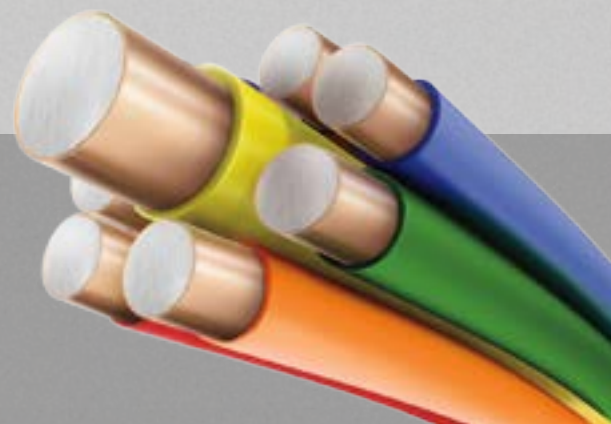
### THE RIGHT WIRE FOR THE JOB

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.

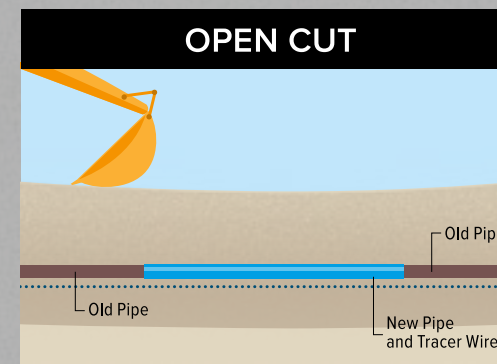
#### AMERICAN PUBLIC WORKS ASSOCIATION (APWA) UNIFORM COLOR CODE

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

*For tracer wire use only*



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



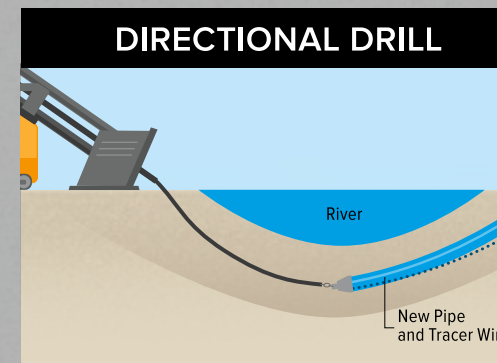
Open cut trenching is the traditional method for excavation used to expose existing or install new utilities where there are no buildings or other obstructions, then backfilling the trench.

#### 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™

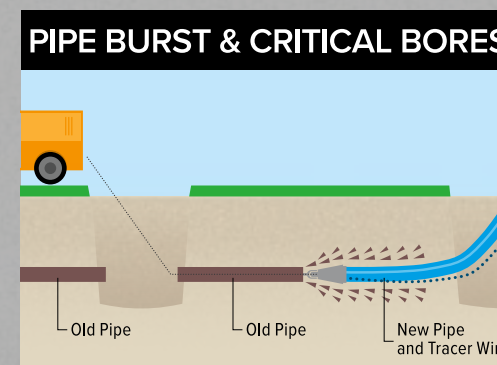
- As flexible as solid copper
- Light-duty applications
- Economical



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



Critical boring and pipe bursting are trenchless installation methods that demand the highest strength of tracer wire.

#### 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
- Weather resistant
- No need to cut the mainline with the Pipe Burst Mainline-to-Service Connector



## 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





## ACCESS

Access Points are used to protect and provide direct connection to tracer wire systems. The multi-terminal SnakePit, Cobra, and BoaBox 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 (Patent No.: US 11,165,173 B2)
- 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
- SnakePit Bracket secures SnakePit alongside curb box



### Cobra™ Access Points

- Above-ground access
- Brass hardware for maximum conductivity
- Multiple mounting options: post, hydrant, 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



### BoaBox™ Access Point

- Two access points in one - curb box/cleanout and tracer wire system
- Direct connection to tracer wire and ground rod from top
- Bottom flange add strength and anchors into ground to accommodate soil shifting
- Encapsulated magnet in pentagon plug allows for detection by ferrous metal detector
- Industries first ¼ turn pentagon style plug - no cross threading
- Anti-corrosion gel to protect wires
- Brass hardware means no rusting or seizing parts
- U.S. Patent No. 11,047,116



## LOCATE

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

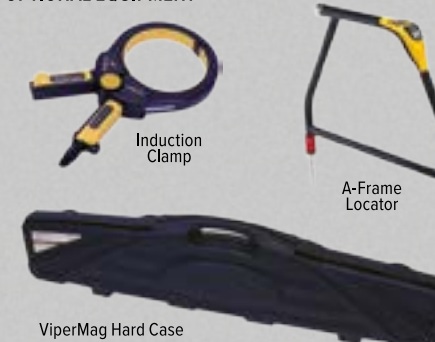
### STANDARD EQUIPMENT



### 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 kHzFF)

### OPTIONAL EQUIPMENT



## OTHER PRODUCTS



### Service Ready Kit

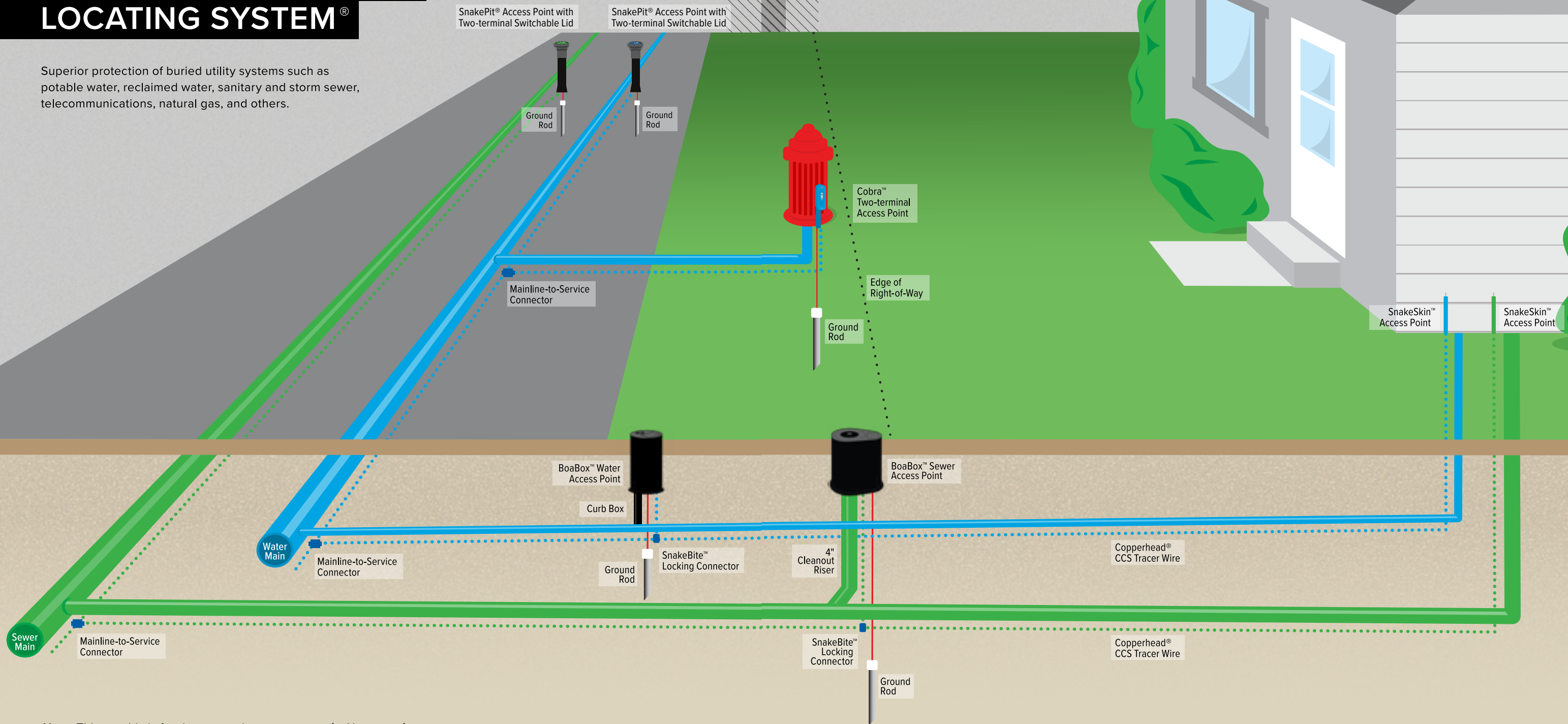
- Contains all components necessary to install the Complete Utility Locating System® from the mainline to the edge of right-of-way to a building



# THE COMPLETE UTILITY LOCATING SYSTEM<sup>®</sup>

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

COPPERHEADWIRE.COM



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'	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 Mainline-to-Service Connector	SC-3WPB-C	Mainline to service line	Pkg qty 1
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 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 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 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 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 Bracket	SP-BRACKET	Secures SnakePit to curb box	--	

Continued on next page.

## ACCESS POINTS – CONTINUED

Product Name	Part Number	Application	Terminals	Dimension
Cobra	T1*	Above ground	1	Fits 1" conduit
Cobra	T2*	Above ground	2	Fits 1" conduit
Cobra Hydrant Flange	HYDFL	Mount Cobra to fire hydrant	--	Fits 3/4", 5/8" 1/2" bolts
Cobra Hydrant Flange Package	T1/2*-FLPKG	Includes Cobra (1 or 2-terminal), flange, 1" NPT thread	1 or 2	Fits 3/4", 5/8" 1/2" bolts
Cobra Mounting Stake	T3-STAKE	Mount Cobra in any location	--	
SnakeSkin	SNSK*-01 SNSK*-BULK25	Above ground	1	Pkg qty 1 Bulk qty 25
BoaBox Water	BOABOX125	Ground level	2	Fits 1" and 1 1/4" iron standpipe (IPS)
BoaBox Water	BOABOX150	Ground level	2	Fits 1 1/2" iron standpipe (IPS)
BoaBox Sewer	BOABOX SWR	Ground level	2	Fits 4" PVC pipe (SDR25 & SDR26 HWS) & 4" SCH40 IPS PVC pipe

\*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

## OTHER PRODUCTS

Product Name	Part Number	Application
Service Ready Kit	SRK-*01	Kit contains: 100' CCS Tracer Wire, Mainline-to-Service Connector, SnakeSkin Access Point, 2 SnakeBite Locking Connectors, 2 Ground Rods, SnakePit Lite Duty Access Point with Two-Terminal Switchable Lid.

\*Denotes Color: B=Blue, G=Green







9530 Fallon Avenue NE • P.O. Box 1081 • Monticello, MN 55362  
Phone: (877) 726-5644 • Fax: (763) 271-3694

[COPPERHEADWIRE.COM](http://COPPERHEADWIRE.COM)