

PROTECTION

LOCATION

IDENTIFICATION



With the demands for more bandwidth combined with increased competition and regulatory changes, there has been an explosion of long-distance, fiber optic cable deployment. According to one study, nearly seven million miles of cable will be installed in North America in the year 2000 alone.

The Natural Gas Industry will enjoy double-digit growth over the next decade with natural gas currently supplying one-third of our nation's total energy needs. Natural gas utilities operate and maintain more than 1.2 million miles of underground pipelines.

Billions of dollars are spent in installing, maintaining, and upgrading buried utility service lines. *Isn't it ironic that all this technology can be immobilized by a \$50 shovel?*



PREVENTION LOCATION IDENTIFICATION

DAMAGE PREVENTION More than 60% of all service interruptions (buried utilities) are caused by accidental rupture due to excavation. Installing highly visible, legible and accurate location and identification markers can easily prevent these very costly and often dangerous accidents.

Carsonite International has been providing location and identification products for more than 20 years. Economical, easy to install and resistant to weather, vehicle, and vandal damage, Carsonite marking products are your first line of defense against accidental damage to your buried plant.

LOCATION Carsonite markers are used to accurately communicate the location of buried fiber optic lines, gas pipelines, or other buried utilities. Color and form, along with the use of directional arrows, can clearly delineate the location and direction of buried lines.

IDENTIFICATION The visibility and legibility of the marker determines the marker's effectiveness in identifying the owner of the buried line. Legible, accurate and up-to-date one-call or service-provider numbers are crucial to damage prevention. With a full line of identification and location products available, you can choose the Carsonite marker best suited for the type of terrain, vegetation density, proximity to residential areas or areas with a high vehicle impact possibility.

LINE MARKER



LineMarker

The LineMarker includes all the features of a highly effective marker built with economy in mind.

Carsonite's new LineMarker features a brightly colored U.V.-resistant enhancer designed for visibility at a distance. Warning and identification messages are integrated into the enhancer, including multi-colored graphics and/or logos. These customized graphics can be positioned on one or both sides of the marker. The finishing process protects the graphics from harsh weather, ultra-violet degradation and vandalism.

The LineMarker post is made from an impact resistant thermoplastic elastomer proven in field applications to remain durable for years. The T-style anchor prevents rotation of the marker, so directional information remains fixed.

LineMarker with Test Station

The LineMarker test station provides all of the features and advantages of the LineMarker, plus a tamper proof test station for telecommunications bonding and grounding, cathodic protection testing and more.

Features include a lock system that is undetectable by vandals, but requires no special tools to open. Terminals are accessible from either side of the board and are protected by a unique built-in venting system.

The Telecommunications test station includes six brass, nickel-plated lugs with fiber washers on an 8-hole terminal board. The Cathodic Protection test station comes with five brass nickel-plated lugs with fiber washers on an 11-hole terminal board.



| | |
|-----------|--|
| MATERIAL | High Density Polymer |
| POST DIA. | 3.5" (8.89cm) |
| LENGTHS | 5' (1.254m), 5'6" (1.676m), 6' (1.829m), 6'5" (1.981m) 7' (2.134m) |
| WEIGHT | 3.7 lbs (1.7kg) 6' unit |
| COLORS | Yellow, Orange, Blue |
| PRODUCT # | CLMU30 __ 01__ |

UTILITY MARKER



Utility Marker

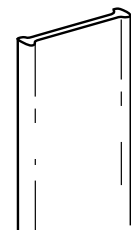
Carsonite's Utility Marker remains a leading utility identification product because of its simplicity of design and long-standing reputation for durability, year after year.

This lightweight, flat-style marker installs in minutes using a manual driving tool. Because of its flat and light weight design, less time and vehicle space is required for installation. That means less installation cost and less time spent in hazardous work zones.

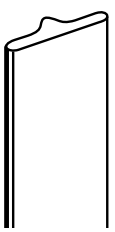
Made from fiberglass reinforced composite material, the Utility Marker survives ditch burns, vehicle impacts and years of outdoor exposure better than wood, metal, concrete and plastic.



Utility Marker



Dual Sided Marker



Utility ID Post

| | | |
|------------------|--|---------------|
| MATERIAL | Fiberglass reinforced composite | |
| LENGTHS | 5'2" (1.575m), 5'6" (1.676m), 6' (1.829m), 6'6" (1.981m) | |
| COLORS | White, Yellow, Orange, Red, Green, Blue | |
| PRODUCT # | Utility Marker | CRM30 _ _ _ _ |
| | Dual Sided Marker | CIB30 _ _ _ _ |
| | Utility ID Post | CBM20 _ _ _ _ |

TUFF FLEX

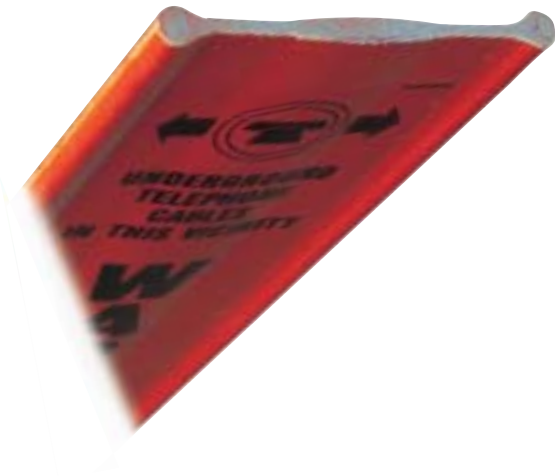


TuffFlex

The name says it all. Carsonite's newest member of the utility marker family, the TuffFlex marker is tough enough to drive easily in hardpan soil yet flexible enough to withstand vehicle impacts.

Warning and identification graphics can be integrated into the surface of the post and can be placed on one or both sides of the post. Adding customized graphics and company logos are no problem.

A nearly flat profile and lightweight fiberglass reinforced composite materials make installation a snap. An optional anchor barb prohibits unauthorized removal.



| | |
|------------------|--|
| MATERIAL | Fiberglass reinforced composite |
| DIMENSION | Width 3.8" (97mm) |
| LENGTHS | 5'2" (1.575m), 5'6" (1.676m), 6' (1.829m), 6'6" (1.981m) |
| COLORS | White, Yellow, Orange, Red, Green, Blue |
| PRODUCT # | CTFMO _ _ _ _ |

SCEPTER®



Scepter Reusable Linemarker

The Scepter® family features a brilliantly colored enhancer or test station cap made from one of the world's strongest plastics. It's highly visible and built to withstand the harshest outdoor environments, including ultra-violet intrusion. The Scepter Linemarker is a reusable unit with a simple threaded collar for easy removal or reuse. The unique ribbed design protects decals up to 14 inches in length.

Scepter Test Station

This versatile above-ground terminal will monitor electrical currents and potentials on underground pipeline. The terminal board and wiring for the test station is easily installed using a unique wedge-mounting design secured to the post by simply tightening two screws. The vandal-resistant cap is undetectable by potential vandals and yet requires no special tools or keys for the utility worker to open. It snaps closed to protect the terminal board.

SCEPTER REUSABLE LINEMARKER

| | |
|-----------|--|
| MATERIAL | High Density Polymer |
| POST DIA. | 3.5" (8.89cm) |
| LENGTHS | 5' (1.254m), 5'6" (1.676m), 6' (1.829m), 6'6" (1.981m) 7' (2.134m) |
| WEIGHT | 4.25 lbs (1.92kg) 6' unit |
| COLORS | Yellow, Orange |
| PRODUCT # | SLMU30 __ 01__ |



TEST STATION OPTIONS

| DESCRIPTION | TERMINALS |
|--|------------------------------------|
| Cathodic Test Station Assembly | 11-hole terminal board with 5 lugs |
| Telecommunications Test Station Assembly | 8-hole terminal board with 6 lugs |
| Utility Test Station Assembly | 3-hole terminal board with 2 lugs |

P E D E S T A L

M A R K E R



Pedestal Marker

Locate and identify above-grade pedestals or other utility services through dense vegetation, snow or other obstructions with the Pedestal Marker. Its triangular shape is visible at any angle but remains unobtrusive in residential areas. Add reflective sheeting for even greater visibility.

Drives easily in most soils or mounts to the pedestal using the unique bracket assembly. The optional offset bracket for round pedestals allows easy access for service. Brackets mount without drilling, thus eliminating potential damage to pedestal contents.

Protect above-grade services from potential damage caused by mowing/plowing equipment and utility vehicles with the Pedestal Marker.

| | |
|------------------|---|
| MATERIAL | Fiberglass reinforced composite |
| DIMENSION | 1 1/8 x 1/4" triangular (29mm x 8mm) |
| LENGTHS | 3' (914mm), 4' (1.219m), 5' (1.254m) 6' (1.829m), 7' (2.134m), 8' (2.438m) |
| COLORS | White (01), Yellow (02), Orange (04), Blue (08) |
| PRODUCT # | SNFBO _ _ _ _ w/Mounting Bracket: PM120_ _ _ _ U w/Offset Bracket: PM120_ _ _ _ OFB |

S I G N S



Signs

Carsonite's full-service Graphics Department specializes in custom signage for most any application. Made from fiberglass reinforced composite, Carsonite signs consistently outperform other sign materials. Our signs resist impacts, severe weather, vandalism (gunshots) and ultra-violet exposure.

Standard and custom signs are available in a wide variety of sizes, designs, and colors with either reflective or non-reflective background. All Carsonite signs are radiused and available with mounting holes for easy installation.



PROTECTION

LOCATION

IDENTIFICATION

