

PROTECT • IDENTIFY • LOCATE

TerraTape[®]
DIVISION OF REEF INDUSTRIES, INC.

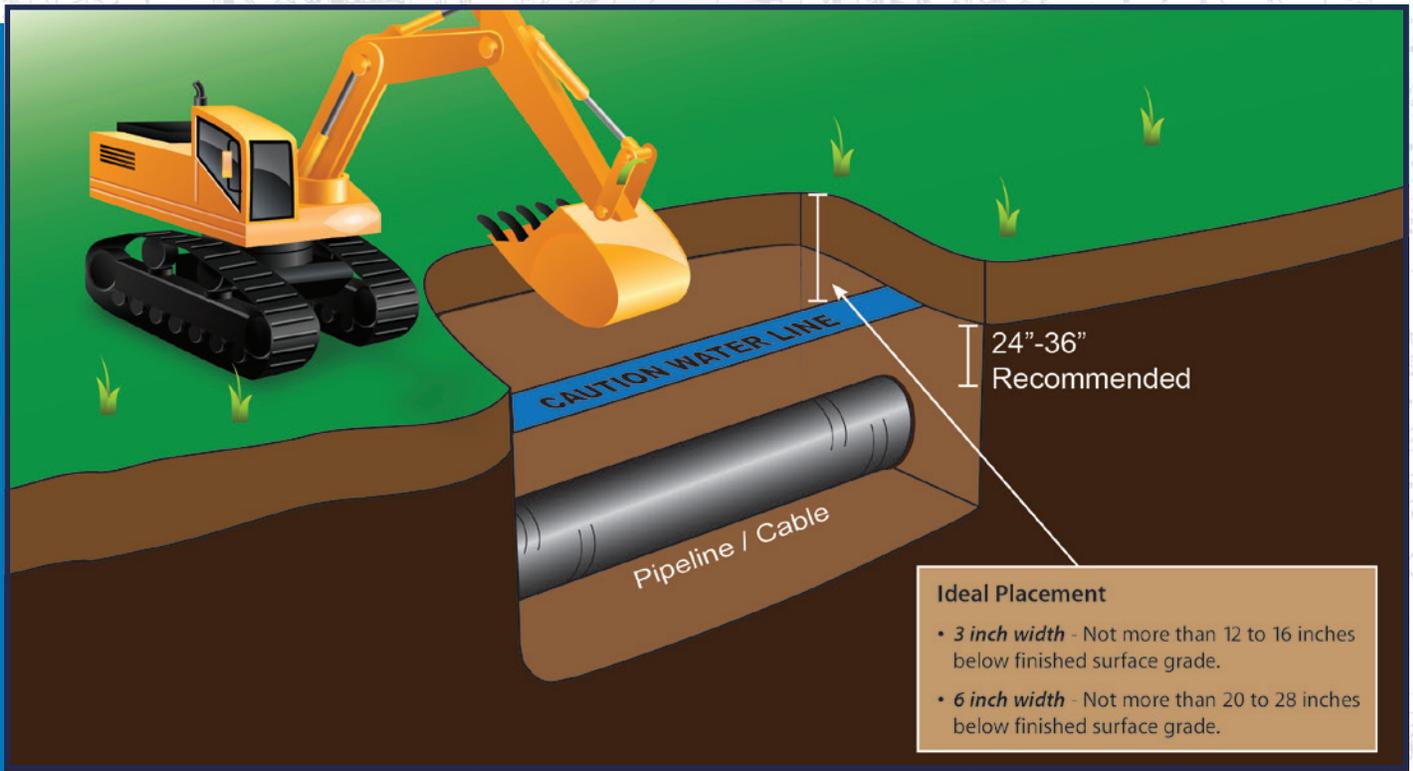
UNDERGROUND MARKING TAPES



01

NON-DETECTABLE UNDERGROUND MARKING TAPES

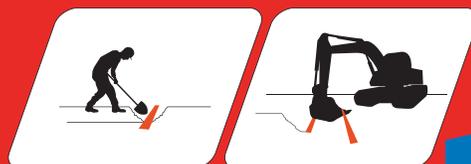
Protect • Identify • Locate ~ Your Underground Utility Lines



FORMULATED FROM 100% VIRGIN PIGMENTED POLYETHYLENE FILM PRINTED WITH A MESSAGE ON ONE SIDE USED TO PROTECT, IDENTIFY AND LOCATE UNDERGROUND UTILITY LINES.



For more info visit www.terratape.com



PRODUCTS

- **Extra Stretch™** underground marking tape can help prevent the high cost of accidental line damage and the inconvenience of utility line service interruptions.

Proven performance the world over for protecting telecommunications, electric, gas and other utilities. Extra Stretch™ is unsurpassed in its balance of high tensile strength, puncture resistance and excellent elongation.

This unique combination of properties allows it to stretch above grade level in one continuous piece, ensuring job site personnel and machine operators will be alerted to stop digging immediately and contact the appropriate authorities.



- **Extra Stretch™ II** very good tensile strength and very high elongation, also suitable for static or vibratory cable plow installations.

- **Standard** designed to suit your budget and project requirements, it can be used for static cable plow installations.

- **Economy** is a light gauge product designed for your budget. *Not suitable for plow installations.*

FEATURES AND BENEFITS

- Terra Tape® Non-Detectable tapes are all 100% virgin polyethylene film with a printed message.
- The ink used in printing is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil.
- Continuous protection, identification & location of your underground utility lines.
- Lasts longer than the utility line.
- Minimal installation costs.
- Can be installed by plows at same time as utility line (depending on product).

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DETECTABLE UNDERGROUND MARKING TAPES

Protect • Identify • Locate ~ Your Underground Utility Lines



DESIGNED TO PROTECT, IDENTIFY AND LOCATE UNDERGROUND UTILITY LINES. ALLOWS FOR LOCATION OF THE BURIED UTILITY AND SERVES AS A WARNING BARRIER. CONSISTING OF A LAMINATE COATED SOLID ALUMINUM FOIL CORE AND A CLEAR ENCAPSULATING FILM.

Ideal Tape Placement

- 2" width up to 12" deep.
- 3" width up to 24" deep.
- 6" width up to 36" deep.

For more info visit www.terratape.com



PRODUCTS

- **Sentry Line™ Detectable** tapes may be located by inductive or conductive methods utilizing most standard pipe and cable locators.

Color coded for application and non-adhesively laminated, Sentry Line™ tapes are colorfast and chemically inert for lifetime stability underground and have been successfully located more than twenty years after interment.



- **Sentry Line™ Reinforced Detectable** tapes are the top of the line in detectable tapes with superior tensile strength and puncture resistance which allows it to withstand the rigors of being plowed in without breaking.

This also makes it ideal for situations where site conditions are difficult.

Magnetic locators or ferrous metal locators will not be able to locate detectable tape at any depth since detectable tape is aluminum based, a non-ferrous metal.

FEATURES AND BENEFITS

- The solid foil core is encased between an HDPE scrim coated with 100% virgin polyethylene pigmented resins and a clear protective film that allows a full view of the foil to ensure continuity. The solid core provides detectability utilizing a pipe and cable locator in either the inductive or conductive modes.
- Terra Clips (available as an accessory item) are designed to allow you to connect multiple rolls, laterals or tees while maintaining electrical continuity.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- Sentry Line™ tapes are available in the colors red, yellow, blue, green and orange. Other colors may be available upon request.



FACTORS THAT MAY AFFECT LOCATION DEPTH AND DISTANCE

- Type and sensitivity of locator being utilized.
- Type of location method being utilized.
- Distance the receiver is from the transmitter.
- Location of other metallic underground structures to the tape.
- Experience of the person using the locator with the operation of that model of locator.
- Type of soil and/or surfaces above marking tape.
- Moisture level of the soil.
- Condition of batteries in locator.

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ACCESSORIES

Protect • Identify • Locate ~ Your Underground Utility Lines



Dispenser Reels and Handles

These allow you to rapidly install tape in a trench by simply holding the roll over the trench while you walk along side.

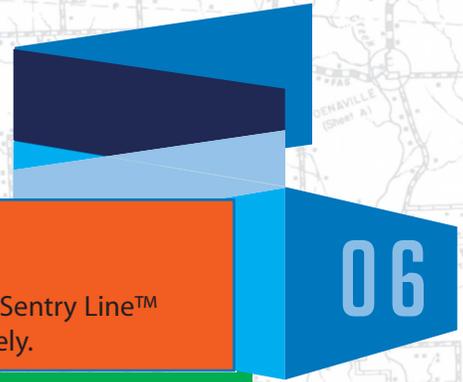
Dispenser Boxes

For more efficient use when traveling from job site to job site.



For more info visit www.terratape.com





TERRA CLIPS - DETECTABLE TAPE CONNECTOR KIT

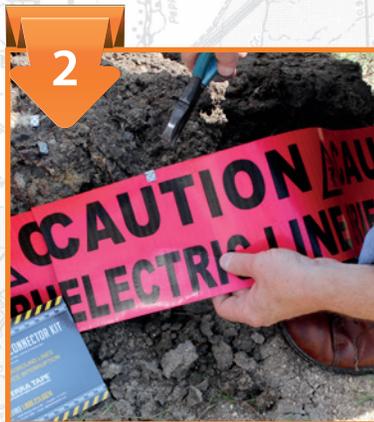
Terra Clips are used to make an electrical connection to the solid aluminum foil in Sentry Line™ tape. They can be utilized when locating conductively and when locating inductively.

TERRA CLIP INSTALLATION



Overlap two ends of detectable tape being spliced by 6-10 inches.

Make sure the tape is free of dirt before beginning the process.



Place one clip on each side of the overlapping sections and crimp each clip securely with pliers.



Remove the release paper from the adhesive sealing tape.



Cover the clip completely, this will form a waterproof seal.



Repeat steps 3 and 4 for each additional clip.



Bury the completed splice manually.

Terra Clips electrically connect sections of tape by piercing the protective plastic jacket of the tape that encases the foil.

The electrical continuity of the connections can be tested with an ohmmeter. The resistance between the clips should be zero ohms.

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AVAILABLE OPTIONS

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Custom Printing

All Terra Tape® products are printed in permanent black ink on colored tape and can be custom printed with your company name, logo, phone number and/or message in up to four different colors.

Custom Sizes

Terra Tape® products can be made from 2 to 48 inches wide and in lengths to 10,000 feet depending on material.

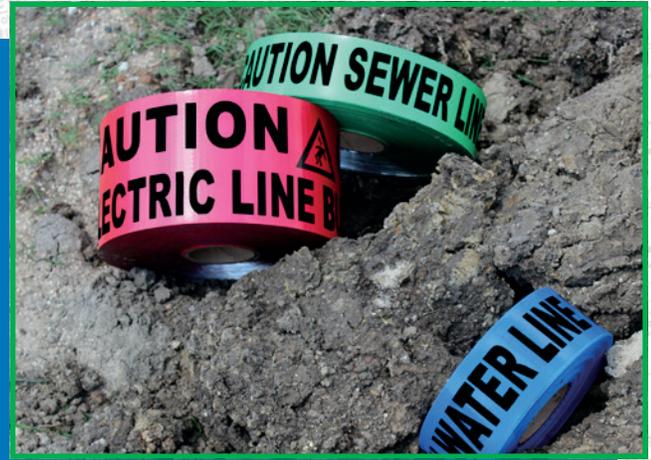
Stock Sizes

All Terra Tape® products are available in:

- 2"x1000' rolls
- 3"x1000' rolls
- 3"x6000' rolls
- 6"x1000' rolls
- 6"x6000' rolls

All 6,000' rolls are on plastic cores.

(See enclosed Stock Item list for an up to date inventory)



Other options include:

- Plastic Cores.
- Individual or custom boxing.
- Large diameter sideboards and core plugs for long lengths.
- Export Packaging / Paperwork.

Not all options may be available on all materials and minimum order may apply.

APWA Color Code (Used in U.S.A. and many other countries)



- RED**
- YELLOW**
- BLUE**
- GREEN**
- ORANGE**

- Electric Power Lines, Cables, Conduit and Lighting Cables.
- Oil, Gas, Steam, Petroleum or Gaseous Materials.
- Water, Irrigation, and Slurry Lines.
- Sewer and Drain Lines.
- Communication, Alarm or Signal Lines, Cables or Conduits.

For more info visit www.terratape.com



TerraTape®

DIVISION OF REEF INDUSTRIES, INC.

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WWW.TERRATAPE.COM



PROTECT • IDENTIFY • LOCATE
YOUR UNDERGROUND UTILITY LINES

EDUCATION - MODIFYING YOUR PLOW

Plow modification enabling the installation of Terra Tape® is straightforward and relatively simple. The following tips should help to ensure satisfactory operation.

Protect • Identify • Locate ~ Your Underground Utility Lines



For versatility, set up the mount to accept the standard widths of 2, 3 and 6 inches with roll diameters up to 24 inches.

VIBRATORY PLOW ROLL MOUNT

Roll mount should be on the tractor to avoid vibration of the shank.

Roll can be mounted on its side or upright, in either case, utilizing a method minimizing rolling friction as much as possible.

Recommended Products:

- Extra Stretch™
- Extra Stretch™ II

STATIC PLOW ROLL MOUNT

Roll mount should be directly above tape.

The axle mount should allow free rotation and minimize friction.

Recommended Products:

- Extra Stretch™
- Extra Stretch™ II
- Standard



For more info visit www.terratape.com



THE CHUTE

The top portion of chute must be directed toward where the tape is coming from and fluted or opened up in a funnel shape as much as possible with no rough edges.

Use a thin walled pipe with as large an inside diameter as possible, but not wider than the widest part of the plow shank.

Curves or bends must be as gentle as possible with no burrs or rough spots inside the pipe, especially at the entrance and exit points.

If high winds cause the tape to unspool, use large hoops or short sections of pipe as needed for the tape to travel through until it reaches the tape chute.

If directional changes in tape are required the use of a roller is preferred.



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TAPE CHUTE MOUNT

Must be adjustable up and down along the back of the plow shank to allow for the tape to be installed at the correct depth even if the cable depth needs to be altered.

Use three or more adjustable brackets to hold the chute to the back of the plow shank.

The type of brackets used will vary depending on type of plow used.

The brackets should be welded to the back of the plow shank and centered so the tape chute travels directly behind the shank without touching the ground while being pulled through the earth.



SIDE FLANGES

Diameter of side flanges should be at least as large as the diameter of the tape being installed.

These are available as an option or can be made from steel or plywood.



EDUCATION - LOCATING DETECTABLE TAPE

The information contained here is intended as a guideline only.

Protect • Identify • Locate ~ Your Underground Utility Lines

INDUCTIVE LOCATING



Place the transmitter portion of the locator directly above and parallel to a known section of tape to induce the signal through the ground onto the tape. Alternatively, an inductive couple can be used if a section of the tape is accessible. The transmitter should be in the radio or high frequency mode.

Sweep the receiver in a circle around the transmitter approximately 20 to 50 feet from the transmitter until the signal from the tape is found.

Attempting to get closer than this to the transmitter can result in false location due to the transmitter overpowering the receiver.

Once the tape is found, continue locating until the signal strength drops off. Mark this spot, move the transmitter to the spot and continue as above.

During installation, the ends of each roll, lateral, or tee should be overlapped at least a foot or more to avoid dead spots while locating.

Inductive locating is the most widely used location method for marking tape and is the easiest to install. No electrical connections of individual rolls are required during installation and no access to the tape is required during location.

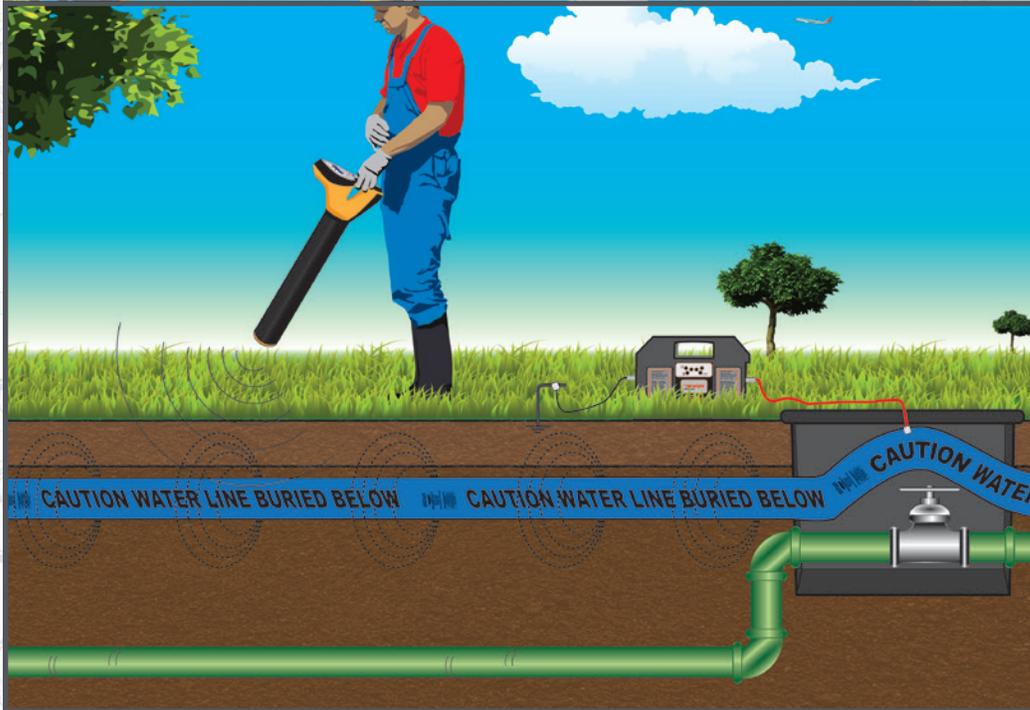
For more info visit www.terratape.com



EDUCATION - LOCATING DETECTABLE MARKING TAPE

For specific information on locating with your brand and model of locator refer to your locator manual or contact the manufacturer.

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CONDUCTIVE LOCATING

With the conductive method you must make an electrical connection with the solid aluminum core inside the tape from roll to roll during installation and onto the tape when locating. Terra Clips, an accessory item, make the necessary electrical connections.

Using the transmitter, in audio frequency or low frequency mode, connect to a section of tape using a Terra Clip. Leaving a few feet of tape in a pedestal or riser box provides easy access and avoids requiring the tape be dug up.

A ground rod or ground plane is then connected to the transmitter and placed at a 90° angle to the tape.

Location is then performed in the same way as in the inductive method. The distance the locator is capable of locating under the installed conditions must be taken into account before the installation is started to ensure that the distance between access points is not greater than one half the maximum location distance.

TERRA CLIPS



Terra Clips can be used to connect the ends of each roll, tee or lateral for easier location and for connecting conductively to the foil in the tape.

(See the enclosed Accessories and Options section)

STOCK ITEM LIST

Imprints on 3" wide stock items are one line:

CAUTION _____ BURIED BELOW

Imprints on all 6" wide stock items are two lines:

**CAUTION CAUTION
_____ BURIED BELOW**

The word or words shown below replace the blank line. All stock imprints are printed in permanent black ink.

This list represents stock items only and does not include custom items, seasonally stocked items, overruns or discontinued items that might be available. Please contact us if you do not see an item you require.

Economy (NON-DETECTABLE)

42-0104	RED	3" X 1000'	ELECTRIC LINE
42-0105	RED	6" X 1000'	ELECTRIC LINE

Standard (NON-DETECTABLE)

42-0002	ORG	3" X 1000'	CATV CABLE
42-0004	ORG	3" X 1000'	COMMUNICATION CABLE
42-0007	ORG	6" X 1000'	COMMUNICATION CABLE
42-0001	ORG	3" X 1000'	FIBER OPTIC CABLE
42-0005	ORG	3" X 6000'	FIBER OPTIC CABLE
42-0008	ORG	6" X 1000'	FIBER OPTIC CABLE
42-0003	ORG	3" X 1000'	TELEPHONE CABLE
42-0006	ORG	3" X 6000'	TELEPHONE CABLE
42-0010	ORG	6" X 1000'	TELEPHONE CABLE
42-0106	RED	3" X 1000'	ELECTRIC LINE
42-0108	RED	6" X 1000'	ELECTRIC LINE
42-0054	YEL	3" X 1000'	ELECTRIC LINE
42-0059	YEL	6" X 1000'	ELECTRIC LINE
42-0053	YEL	3" X 1000'	GAS LINE
42-0058	YEL	6" X 1000'	GAS LINE
42-0060	YEL	6" X 1000'	PIPELINE
42-0056	YEL	3" X 1000'	CATHODIC PROTECTION LINE
42-0075	BLU	3" X 1000'	WATER LINE
42-0076	BLU	6" X 1000'	WATER LINE
42-0114	GRN	3" X 1000'	SEWER LINE
42-0115	GRN	6" X 1000'	SEWER LINE

Extra Stretch® II (NON-DETECTABLE)

42-0158	ORG	3" X 1000'	FIBER OPTIC CABLE
42-0159	ORG	3" X 6000'	FIBER OPTIC CABLE
42-0162	ORG	6" X 1000'	FIBER OPTIC CABLE
42-0163	ORG	6" X 6000'	FIBER OPTIC CABLE
42-0165	ORG	6" X 6000'	TELEPHONE CABLE
42-0166	ORG	3" X 1000'	COMMUNICATION CABLE
42-0167	ORG	3" X 6000'	COMMUNICATION CABLE

Extra Stretch® (NON-DETECTABLE)

42-0021	ORG	3" X 1000'	FIBER OPTIC CABLE
42-0026	ORG	3" X 6000'	FIBER OPTIC CABLE
42-0028	ORG	6" X 1000'	FIBER OPTIC CABLE
42-0033	ORG	6" X 6000'	FIBER OPTIC CABLE
42-0024	ORG	3" X 1000'	TELEPHONE CABLE
42-0027	ORG	3" X 6000'	TELEPHONE CABLE
42-0030	ORG	6" X 1000'	TELEPHONE CABLE
42-0119	RED	3" X 1000'	ELECTRIC LINE
42-0120	RED	6" X 1000'	ELECTRIC LINE
42-0081	YEL	3" X 1000'	GAS LINE
42-0084	YEL	6" X 1000'	GAS LINE



MORE

Sentry Line® Detectable

42-0039	ORG	3" X 1000'	COMMUNICATIONS CABLE
42-0042	ORG	6" X 1000'	COMMUNICATIONS CABLE
42-0037	ORG	3" X 1000'	FIBER OPTIC CABLE
42-0040	ORG	6" X 1000'	FIBER OPTIC CABLE
42-0041	ORG	6" X 1000'	TELEPHONE
42-0064	YEL	3" X 1000'	ELECTRIC LINE
42-0069	YEL	6" X 1000'	ELECTRIC LINE
42-0110	RED	3" X 1000'	ELECTRIC LINE
42-0112	RED	6" X 1000'	ELECTRIC LINE
42-0111	RED	3" X 1000'	HIGH VOLTAGE CABLE
42-0063	YEL	3" X 1000'	GAS LINE
42-0068	YEL	6" X 1000'	GAS LINE
42-0100	BLU	2" X 1000'	WATER LINE
42-0073	BLU	3" X 1000'	WATER LINE
42-0074	BLU	6" X 1000'	WATER LINE
42-0125	GRN	2" X 1000'	SEWER LINE
42-0116	GRN	3" X 1000'	SEWER LINE
42-0117	GRN	6" X 1000'	SEWER LINE

Sentry Line® Reinforced Detectable

42-0046	ORG	6" X 1000'	FIBER OPTIC CABLE
42-0122	RED	6" X 1000'	ELECTRIC LINE

Terra Clips to use with Sentry Line®

Required to maintain continuity from roll to roll when conductively locating detectable tape.

60-0085	TERRA CLIPS - BAG OF 10
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Accessories

75-0014	DISPENSER BOXES - REUSABLE (FOR 3" x 1000' ECONOMY OR STANDARD)
75-0043	DISPENSER BOXES - REUSABLE (FOR 6" x 1000' ECONOMY OR STANDARD)
60-0090	REELS AND HANDLES - WITH <i>SIDEBOARDS</i> (FOR USE WITH ANY 3" x 1000' TERRA TAPE® PRODUCT)
60-0094	REELS AND HANDLES - WITH <i>SIDEBOARDS</i> (FOR USE WITH ANY 6" x 1000' TERRA TAPE® PRODUCT)

APWA UNIFORM COLOR CODE

(ANSI STANDARD Z 535.1)

RED	ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM, OR SIGNAL LINES, CABLES OR CONDUITS
BLUE	POTABLE WATER
GREEN	SEWER AND DRAIN LINES

All 6,000 foot rolls are shipped on plastic cores. All products are shipped in cardboard cartons, larger orders ship in cardboard cartons secured to wood pallets.

Any Terra Tape® products can be custom printed with your own message, insignia or logo in up to four different ink colors.

Other options include roll lengths to 10,000 feet and widths up to 48 inches, sideboards for 6,000 foot rolls, plastic cores, end of roll indicators, multiple color imprints, custom packaging, export documentation and many more. Please ask your salesperson which option can be applied to the materials you are interested in.

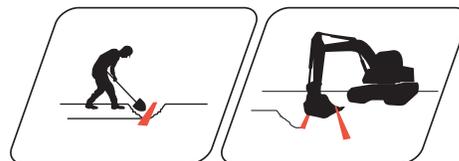
All information subject to change without notice



TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	3.0 MIL	0.08 MM
Weight	D-2103	14.5 LBS/1000 FT ²	7.1 KG/100 M ²
3" Tensile	D-882	24.5 LBF	109 N
		2700 PSI	18.6 MPA
6" Tensile*	D-882	49 LBF	218 N
		2700 PSI	18.6 MPA
Elongation	D-882	680 %	680 %
PPT Resistance	D-2582	13.5 LBF	60 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Terra Tape® Economy is a 100% virgin pigmented polyolefin film with a printed message on one side used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon long term underground burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- The material is available in red or yellow. Other colors may be available upon request.

* Calculated Value



OUR CUSTOMERS DON'T JUST *cover their business,* ➔ THEY PROTECT IT



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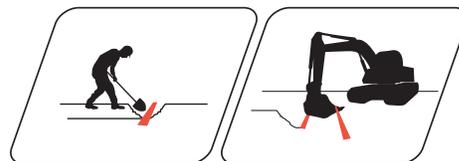
TOLLFREE 1.800.231.6074

The information provided herein is based upon data believed to be reliable. All testing is performed in accordance with ASTM standards and procedures. All values are typical and nominal and do not represent either minimum or maximum performance of the product. Although the information is accurate to the best of our knowledge and belief, no representation of warranty or guarantee is made as to the suitability or completeness of such information. Likewise, no representation of warranty or guarantee, expressed or implied, or merchantability, fitness or otherwise, is made as to product application for a particular use.

TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	4.0 MIL	0.1 MM
Weight	D-2103	18.5 LBS/1000 FT ²	9.0 KG/100 M ²
3" Tensile	D-882	38 LBF	169 N
		3200 PSI	21.9 MPA
6" Tensile*	D-882	76 LBF	338 N
		3200 PSI	21.9 MPA
Elongation	D-882	800 %	800 %
PPT Resistance	D-2582	15.5 LBF	68.9 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Terra Tape® Standard is a 100% virgin pigmented polyolefin film with a printed message on one side used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon long term underground burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- The material is available in the colors red, orange, yellow, blue and green. Other colors may be available upon request.

* Calculated Value



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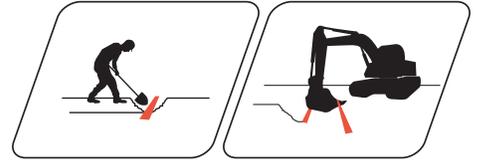
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TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	11.0 MIL	0.28 MM
Weight	D-2103	35.5 LBS/1000 FT ²	17.3 KG/100 M ²
3" Tensile	D-882	400 LBF	1780 N
		12000 PSI	82.7 MPA
6" Tensile*	D-882	800 LBF	3560 N
		12000 PSI	82.7 MPA
Elongation	D-882	20 %	20 %
PPT Resistance	D-2582	28 LBF	124.5 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Terra Tape® Extra Strength is a strong, tear resistant and tough reinforced marking tape designed not to stretch and to break cleanly without distortion when caught by an excavating backhoe.
- Extra Strength is a multi-layer laminate consisting of an HDPE scrim coated on both sides with 100% virgin polyolefin pigmented resins. A printed message is on one side and the product is used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- The material is available in yellow. Other colors may be available upon request.

* Calculated Value



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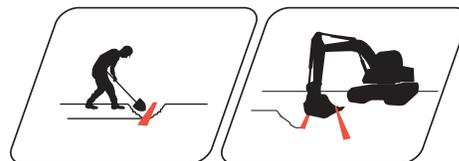
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TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	8.0 MIL	0.20 MM
Weight	D-2103	28 LBS/1000 FT ²	13.7 KG/100 M ²
3" Tensile	D-882	80 LBF	356 N
		3000 PSI	20.7 MPA
6" Tensile*	D-882	160 LBF	712 N
		3000 PSI	20.7 MPA
Elongation	D-882	800 %	800 %
PPT Resistance	D-2582	30 LBF	133 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Terra Tape® Extra Stretch™ is formulated from 100% virgin polyolefin pigmented film with a printed message on one side used to protect, identify and locate underground utility lines.
- Constructed by mechanical (non-adhesive) lamination of two plies of three ply blown film to produce the bi-axially oriented six ply structure.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- The material is available in the colors red, orange and yellow. Other colors may be available upon request.

* Calculated Value



OUR CUSTOMERS DON'T JUST cover their business, >THEY PROTECT IT



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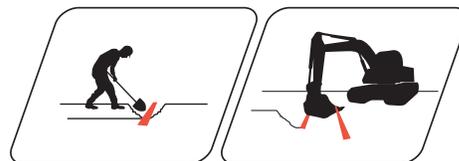
TOLLFREE 1.800.231.6074

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TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	6.0 MIL	0.15 MM
Standard Weight	D-751	28 LBS/1000 FT ²	13.7 KG/100 M ²
3" Tensile	D-882	88 LBF	391 N
		5300 PSI	37 MPA
6" Tensile*	D-882	176 LBF	782 N
		5300 PSI	37 MPA
3" Elongation	D-882	850%	850%
PPT Resistance	D-2582	22.0 LBF	98 N
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Terra Tape® Extra Stretch II™ is formulated from 100% virgin polyolefin pigmented film printed message on one side used to protect, identify and locate underground utility lines.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- The material is available in orange. Other colors may be available upon request.

* Calculated Value

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TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	6.0 MIL	0.15 MM
Thickness Foil Core	D-2103	0.30 MIL	7.62 Microns
Foil Purity	-	99% +	99% +
Weight	D-2103	34 LB/1000 FT²	16.6 KG/100 M²
2" Tensile*	D-882	45 LBF	201 N
		3600 PSI	25 MPA
3" Tensile	D-882	68 LBF	302 N
		3600 PSI	25 MPA
6" Tensile*	D-882	136 LBF	604 N
		3600 PSI	25 MPA
Elongation	D-882	60 %	60 %
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Sentry Line® Detectable is a tri-layer laminate consisting of a printed film, a solid foil core and a clear encapsulating film. It is designed to protect, identify and locate underground utility lines.
- The solid foil core is encased between a 100% virgin polyolefin pigmented film and a clear protective film that allows a full view of the foil to ensure continuity. The solid core provides for detectability utilizing either the inductive or conductive modes using a pipe and cable locator.
- Terra Clips (available as an accessory item) are designed to allow you to connect multiple rolls while maintaining electrical continuity.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- Terra Tape Sentry Line Detectable is available in the colors red, orange, yellow, blue and green. Other colors may be available upon request.

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TECHNICAL DATA SHEET

DESCRIPTION

Terra Tape®'s Underground Marking tape is the industry standard for protecting, identifying and locating all types of buried utilities.



PHYSICAL PROPERTIES AND TYPICAL VALUES

PROPERTY	ASTM TEST METHOD	U.S. VALUE	METRIC VALUE
Thickness Overall	D-2103	8.0 MIL	0.20 MM
Thickness Foil Core	D-2103	0.30 MIL	7.62 Microns
Foil Purity	-	99% +	99% +
Weight	D-2103	38 LBS/1000 FT ²	18.5 KG/100 M ²
2" Tensile*	D-882	167 LBF	733 N
		10500 PSI	72.7 MPA
3" Tensile	D-882	250 LBF	1100 N
		10500 PSI	72.7 MPA
6" Tensile*	D-882	500 LBF	2200 N
		10500 PSI	72.7 MPA
Elongation	D-882	20 %	20 %
Printability	D-2578	≥ 40 Dynes	≥ 40 Dynes

FEATURES AND BENEFITS

- Sentry Line® Reinforced Detectable is a tri-layer laminate consisting of a coated woven scrim, a solid foil core and a clear encapsulating film. It is designed to protect, identify and locate underground utility lines.
- The solid foil core is encased between an HDPE scrim coated with 100% virgin polyolefin
- Pigmented resins and a clear protective film that allows a full view of the foil to ensure continuity. The solid core provides detectability utilizing either the inductive or conductive modes using a pipe and cable locator.
- Terra Clips (available as an accessory item) are designed to allow you to connect multiple rolls, laterals or tees while maintaining electrical continuity.
- The ink used to print the material is permanent and cannot be removed by normal handling or upon burial.
- The material and ink are chemically inert and will not degrade when exposed to acids, alkalis and other destructive substances commonly found in soil.
- Sentry Line Reinforced Detectable is available in the colors orange and red. Other colors may be available upon request.

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