

3M Science.
Applied to Life.™

3M™ Locating and Marking System

Identify underground
assets quickly and
accurately



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Taking a revolutionary path forward

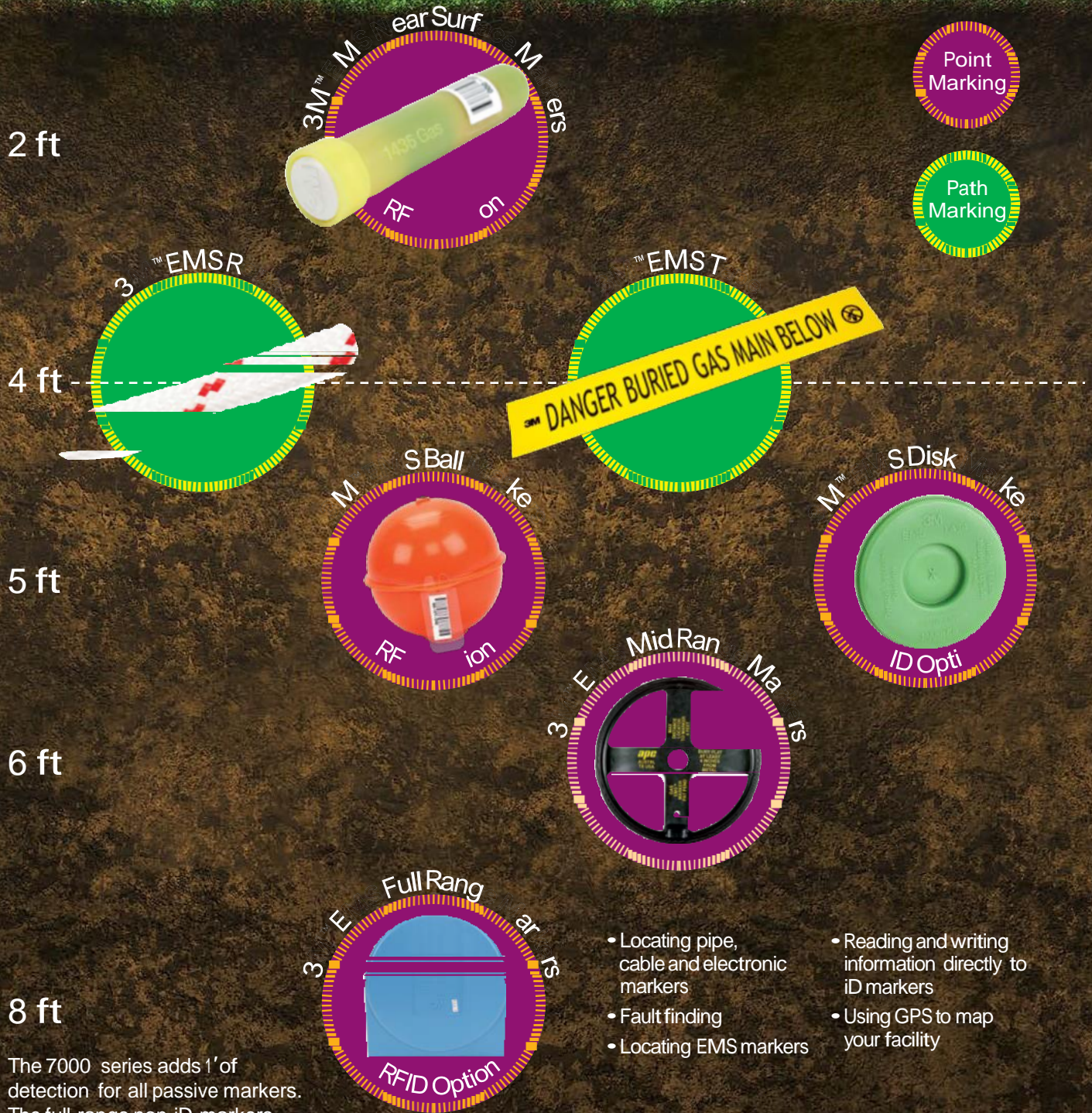
Stress-free management and assets takes tools can

suite of integrated locating and marking solutions is engineered to help afford you piece of mind as you get ready to take on your toughest challenges.



A complete solution for construction and maintenance

The full line of 3M locators and markers helps to quickly and accurately identify underground assets. Designed as fully-featured kits with all-in-one capabilities, you will be ready for a wide range of jobs.



- Locating pipe, cable and electronic markers
- Fault finding
- Locating EMS markers
- Reading and writing information directly to iD markers
- Using GPS to map your facility

No matter the task, these precision tools can help you find the exact path and estimated depth of your underground assets.



3M™ EMS Path Marking Tape and Rope

A new approach to path marking

Our latest innovation, 3M™ EMS Path Marking Tape and Rope, is virtually a maintenance-free solution for marking and locating the path of underground plastic pipes and conduits that helps eliminate the problems and costs associated with tracer wire and test stations.

3M EMS marking tapes and ropes are embedded with markers that are activated using a 3M™ Dynatel™ Locators 7000 Series. Their intrinsic benefits save time and money.

- They can be installed near or above buried assets
- They are easy to follow, creating a detectable path above ground
- For use in open trench and HDD (Horizontal Directional Drilling) applications
- They do not require batteries and there is no need to hook up an external transmitter or spend time searching for access points
- The markers work independently, so even if a section of path marking tape/rope is cut or removed, the other markers on the tape/rope will continue to provide an accurate location
- They come in 5 frequencies, creating a unique identification for each utility type

	Depth	Roll Length	Marker Spacing	Telephone	Power	Water	Wastewater	Gas
Tape	up to 4 ft	400 m	8 ft	7611XR	7612XR	7613XR	7614XR	7615XR
	up to 3 ft	400 m	12 ft	7611	7612	7613	7614	7615
Rope	up to 4 ft	300m	8 ft	7701-HTS	7702-HTS	7703-HTS	7704-HTS	7705-HTS
	up to 4 ft	300m	8 ft	7701-R	—	—	—	—

HTS = High Tensile Strength

XR = Extended Range

R = In-Conduit



3M™ Point Marking

Marking points of interest

Unlike surface features, maps and other methods of recording position, the 3M™ Marker is a constant point of reference you can depend on.

3M markers:

- Operate in all soil types; under asphalt; cement; and wet or dry soil
- Are color-coded to APWA standards
- Provide easy positive identification with each utility having its own frequency

3M™ iD Markers can be customized to include customer-specific information such as:

- Facility data
- Material type and size
- Type of application
- Placement date

All of this information can be accessed in the field through a 3M ID model locator, but also uploaded and used with your GIS system.

Model	Detection/Read Range	Type	Telephone	Power		General Purpose	Water	Wastewater	Gas
3M™ EMS Near Surface Marker	3 ft	EMS	1432	1433	—	—	1434	1435	1436
	2 ft	iD	1432-XR/iD	1433-XR/iD	1437-XR/iD	1438-XR/iD	1434-XR/iD	1435-XR/iD	1436-XR/iD
3M™ EMS Ball Marker	6 ft	EMS	1401-XR	1402-XR	1407-XR	1408-XR	1403-XR	1404-XR	1405-XR
	5 ft	iD	1421-XR/iD	1422-XR/iD	1427-XR/iD	1428-XR/iD	1423-XR/iD	1424-XR/iD	1425-XR/iD
3M™ EMS Mini-Marker	6 ft	EMS	1255	1256	—	—	1257	1258	1259
3M™ EMS Full Range Marker	9 ft	EMS	1250	1251	—	—	1252	1253	1254
	8 ft	iD	1250-XR/iD	1251-XR/iD	—	1248-XR/iD	1252-XR/iD	1253-XR/iD	1254-XR/iD
3M™ EMS Disk Marker	5 ft	EMS	1411-XR	1412-XR	1417-XR	1418-XR	1413-XR	1414-XR	1415-XR
	5 ft	iD	1411-XR/iD	1412-XR/iD	—	1418-XR/iD	1413-XR/iD	1414-XR/iD	1415-XR/iD



3M™ EMS Near Surface Marker
Ideal for marking at shallow depths of 2–3'



3M™ EMS Ball Marker
Self leveling feature, suited for depths of 5–6'



3M™ EMS Mini-Marker
Designed for maintaining a stable position after placement at depths of 6'



3M™ EMS Full Range Marker
Suited for deep applications of up to 8–9'



3M™ EMS Disk Marker
Ideal for marking at shallow depths of 3–5'



3M™ Dynatel™ Pipe/Cable/EMS Locator 7500 Series

Cable/Pipe/Marker and EMS Tape Locators 7550-iD

Cable/Pipe/Fault/Marker and EMS Tape Locators 7573-iD

For powerful precision locating, choose Dynatel locators 7500 series. These locators combine advanced digital processing and simple interfaces to help you quickly locate 3M™ EMS Path Marking Tape/Rope as well as existing electronic markers (balls, near-surface, full range, etc.).

As with all 3M Dynatel Cable/Pipe Locators, the 7500 series provides accurate pipe, cable, or sonde depth measurements, giving a digital readout in feet and inches, or centimeters (user-selectable). All Dynatel locators 7500 series and fault finders are also compatible with select GPS/GIS field mapping instruments for real time mapping of electronic markers or pipe and cable facilities. The locators are easy to use, featuring a simple menu-driven interface that lets you select audio sounds and enable or disable receiver frequencies depending on your needs.

- 6 active frequencies for direct connect and transmitter output options in 3, 5 or 12 watts
- 4 induction frequencies with maximum allowed output power
- Trace view mapping display
- Push button depth to all underground markers (passive and iD)
- Receiver rechargeable battery kit
- All frequency mode in direct connect (4 simultaneously)
- Automatic impedance matching
- Ohm meter with high voltage detection
- Rugged, industrial temperature range
- 240VAC output protection
- Reads and writes to 3M iD Markers
- Fault finding option
- Electronic marker locate/read/write and alert mode option.
- GPS communication capability for GIS mapping
- Semi-automatic gain set with manual fine tuning provides maximum flexibility and control
- Unique “expander” function for fast tracking and pinpointing of position