

**3M** Science.  
Applied to Life.™

E: [sales@australianunitedsupplies.com.au](mailto:sales@australianunitedsupplies.com.au)

M: +61 481 226 429

WEB: <https://www.australianunitedsupplies.com.au>

# 3M™ Locating and Marking System

Use the right stuff.



**CAUTION** GAS LINE BURIED BELOW  **CAUTION** GAS LINE BURIED BELOW  **CAUTION** GAS LINE BURIED BELOW  **CAUTION** GAS LINE BURIED BELOW



## Contents

**3M™ EMS Path Marking  
Tape and Rope** 4

**3M™ Electronic Marking System** 5

3M™ Near Surface Marker  
3M™ Ball Marker  
3M™ EMS Full Range Marker  
3M™ EMS Disk Marker

**3M™ Dynatel™ Pipe/Cable/EMS  
Locator 7500 Series** 6

Pipe/Cable/EMS (Marker,Tape,Rope)  
Locator 7550-iD

Pipe/Cable/Fault/EMS  
(Marker,Tape,Rope) Locator 7573-iD

**EMS (Marker, Tape, Rope)  
Locator 7420**

**Accessories** 7

**3M™ Dynatel™ Locators  
Features by Model** 8

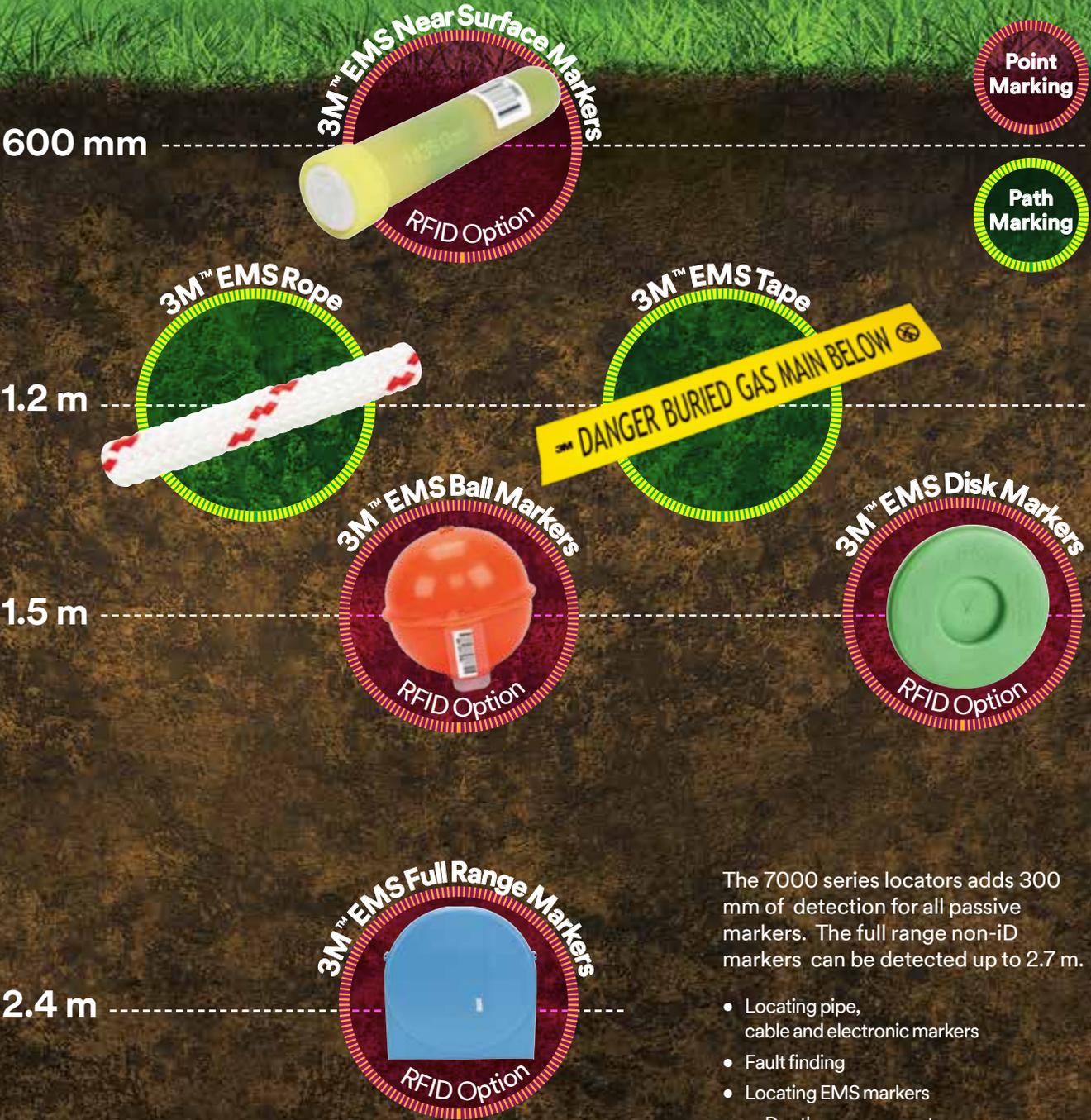
# Taking a revolutionary path forward.

Stress-free management and maintenance of underground assets takes tools you can depend on. 3M's innovative 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.



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

The 7000 series locators adds 300 mm of detection for all passive markers. The full range non-iD markers can be detected up to 2.7 m.

- Locating pipe, cable and electronic markers
- Fault finding
- Locating EMS markers
  - Depth measurements
  - Writing information directly to iD markers (prior to installation)
  - Reading buried iD markers
- Using GPS to map your facility

# 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 1.2 m	400 m	2.4 m	7611XR	7612XR	7613XR	7614XR	7615XR
	up to 900 mm	400 m	3.6 m	7611	7612	7613	7614	7615
Rope	up to 1.2 m	300m	2.4 m	7701-HTS	7702-HTS	7703-HTS	7704-HTS	7705-HTS

HTS = High Tensile Strength    XR = Extended Range



# 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
- Provide easy positive identification with each utility having its own frequency
- Are colour-coded to APWA standards

3M™ iD Markers can be customised 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.



**3M™ EMS Near Surface Marker**  
Ideal for marking at shallow depths of 0.6 – 0.9 m



**3M™ EMS Ball Marker**  
Self leveling feature, ideal for marking at depths of 1.5 – 1.8 m



**3M™ EMS Full Range Marker**  
Ideal for marking at depths of 2.4 – 2.7 m



**3M™ EMS Disk Marker (Not for direct bury)**  
Ideal for marking at depths of 1.5 – 1.8 m

Model	Detection/Read Range	Type	Telephone	Power	Water	Wastewater	Gas	CATV	General Purpose
3M™ EMS Near Surface Marker	0.9 m	EMS	1432	1433	1434	1435	1436	–	–
	0.6 m	iD	1432-XR/iD	1433-XR/iD	1434-XR/iD	1435-XR/iD	1436-XR/iD	1437-XR/iD	1438-XR/iD
3M™ EMS Ball Marker	1.8 m	EMS	1401-XR	1402-XR	1403-XR	1404-XR	1405-XR	1407-XR	1408-XR
	1.5 m	iD	1421-XR/iD	1422-XR/iD	1423-XR/iD	1424-XR/iD	1425-XR/iD	1427-XR/iD	1428-XR/iD
3M™ EMS Full Range Marker	2.7 m	EMS	1250	1251	1252	1253	1254	–	–
	2.4 m	iD	1250-XR/iD	1251-XR/iD	1252-XR/iD	1253-XR/iD	1254-XR/iD	–	1248-XR/iD
3M™ EMS Disk Marker	1.8 m	EMS	1411-XR	1412-XR	1413-XR	1414-XR	1415-XR	1417-XR	1418-XR
	1.5 m	iD	1411-XR/iD	1412-XR/iD	1413-XR/iD	1414-XR/iD	1415-XR/iD	–	1418-XR/iD

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

Pipe/Cable/EMS (Marker, Tape, Rope) Locator 7550-iD  
 Pipe/Cable/Fault/EMS (Marker, Tape, Rope) Locator 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 centimetres (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
- Ohmmeter with high voltage detection
- Rugged, industrial temperature range
- 240VAC output protection
- Reads and writes to 3M iD Markers



# 3M™ Dynatel™ EMS (Marker, Tape, Rope) Locator 7420

EMS (Marker, Tape, Rope) Locator 7420

- Locate all frequencies of 3M EMS Path Marking Tape/Rope
- Detects industry standard electronic markers frequencies
- 3M iD marker read and write capability
- Locate EMS tape/rope and be alerted to electronic marker of same frequency
- Marker maximum read range up to 2.7m depth
- GPS communication capability for GIS mapping of pipe/cable path and electronic markers
- Push button depth estimation for 3M passive iD markers and EMS Tape
- Light weight with excellent balance and ergonomics
- Large backlit, high-resolution graphic display
- Rechargeable battery kit

3M™ Dynatel™ EMS (Marker, Tape, Rope) Locator 7420

## 3M™ Dynatel Transmitters

Product & Country	12 Watt Transmitter
3M Order Code	80611331085
Product Name	3M™ Dynatel™ 12 Watt Transmitter
Description	Includes 12 watt transmitter, grounding rod and rechargeable battery
Compatible with	2550, 2573, 7550 and 7573



### 3M™ Direct Connect Accessories

Product & Country	2876	2892	8006	9012	9043
					
<b>3M Order Code</b>	80610598130	80610598668	80610126841		80610126833
<b>Product Name</b>	3M™ Large Clip Direct-Connect Transmitter Cable for Most Cable/Fault Locators 2876	3M™ Small Clip Direct-Connect Transmitter Cable for All Cable/Fault Locators 2892	3M™ Ground Rod 8006	3M™ Direct Connect, 1.5 m Transmitter Cable, Telephone 9012	3M™ Ground Extension Cable 9043
<b>Description</b>	Two lead, 3 m cables used for direct connection to cable and ground	Two lead, 3 m cables used for direct connection to cable and ground	For applying ground capability. Stainless steel	Two lead, 1.5 m cables used for direct connection to conductor and ground. The 9012 cable has smaller Telco style alligator clips with an insulation piercing needle incorporated.	Extends ground capability to 3.6 m
<b>Compatible with</b>	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573	7550 and 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573

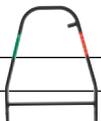
### 3M™ Couplers

Product & Country	1196	3001	4001	9011
				
<b>3M Order Code</b>	80610411185		80611325830	80610074843
<b>Product Name</b>	3M™ Dyna Coupler 1196 152 mm with Pouch	3M 0.9m Dyna-Coupler, 3001	3M™ 114 mm Dyna-Coupler 4001	3M™ Coupler Cable 9011
<b>Description</b>	Permits coupling of RF trace tone to large diameter cables, bundle cables, and cables enclosed in accessible non-metallic ducts. For use on cables and conduits with a maximum diameter of 2.1 m.	Permits coupling of RF trace tone to cables with a maximum diameter of 3 feet.	Permits coupling of RF trace tone to cables with a maximum diameter of 1.3 m.	For use with any Dynatel Transmitter, Receiver, or Coupler: length of 3.6 m.
<b>Compatible with</b>	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573	7550 and 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573

### 3M™ Sondes

Product	3229
<b>3M Order Code</b>	80610757785
<b>Product Name</b>	3M™ ADP 33KHZ Sonde 3229 for use with Dynatel Series Locators
<b>Dimension</b>	150 mm length x 42 mm width
<b>Weight</b>	260 grams (with battery) and 215 grams (without battery)
<b>Description</b>	The 3200 Series Active Duct Probe is an active mini-transmitter (sonde) which allows the user to trace the path of conduit. The ADP can help the user pinpoint key points, such as J-boxes, handholes and stubs
<b>Compatible with</b>	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550 and 7573

### 3M™ Fault Finding Accessories

Product	3014	9026
		
<b>3M Order Code</b>	80610074777	80610074942
<b>Product Name</b>	3M™ Earth Contact Frame 3014	3M™ Earth Contact Frame Cable 9026
<b>Description</b>	Used only when locating sheath (earth return) faults. It indicates direction to the fault and is colour coded to correspond with the receivers indicator	For use with the 3014 Earth Contact Frame for sheath (earth return) fault location; length of 1.2 m
<b>Compatible with</b>	2273, 2273M, 2573 and 7573	2273, 2273M, 2573 and 07573

### 3M™ Locator Carry Bags, Batteries and Chargers

Product & Country	2200M	2200RB	2200RB Adaptor	7000RB	7000RB Adaptor
					
<b>3M Order Code</b>	8061146715	78900051927	AE010603684	80630002535	78900051810
<b>Product Name</b>	3M™ Soft Carrying Bag	3M™ Dynatel™ ANZ Transmitter Battery 2200RB	3M™ Dynatel™ ANZ Power Adaptor for 2200RB Transmitter Battery	3M™ Rechargeable Battery 7000RB	3M™ Dynatel ANZ Power
<b>Description</b>	Soft carrying bad for the 7000 series locators	Rechargeable lead acid battery for 5 watt and 12 watt transmitter units	Power adaptor for 2200RB battery	Rechargeable battery for 7000 series locators (receivers)	Power adaptor for 7000RB battery
<b>Compatible with</b>	1420, 2200M, 2250M/2273M, 7420, 7550 and 7573	2273, 2250, 7550 and 7573	2273, 2250, 7550 and 7573	7420, 7550 and 7573	7420, 7550 and 7573

### 3M™ Dynatel™ Locators – Features by Model

Model	7420	7550	7573
Purpose	Marker/Tape/Rope	Pipe/Cable/Marker/Tape/Rope	Pipe/Cable/Fault/Marker/Tape/Rope
			
Pipe and cable locate		✓	✓
Electronic marker locate/read/write	✓	✓	✓
EMS Caution Tape and Rope Locate	✓	✓	✓
GPS compatible	✓	✓	✓
Active frequencies		6	6
Passive power		✓	✓
Passive LF		✓	✓
Sonde locating		✓	✓
Fault locate (A-frame)			✓
Transmitter output		12W	12W
Dyna-coupler size		114 mm	114 mm
Direct connect cable (S/L Clips)		Large	Large
Ground rod and pouch		✓	✓
USB to Serial Adaptor Cable	✓	✓	✓
7000RB rechargeable battery (locator)	✓	✓	✓
2200RB rechargeable battery (transmitter)		✓	✓
Cigarette lighter adapter cable		✓	✓
Carry bag	✓	✓	✓
Replaces earlier models	1420	2250, 2250M	2273, 2573



E: [sales@australianunitedsupplies.com.au](mailto:sales@australianunitedsupplies.com.au)

M: +61 481226429

WEB: <https://www.australianunitedsupplies.com.au>

Dynatel and 3M are trademarks of 3M.  
Please recycle. Printed in Australia.  
© 3M 2019. All rights reserved.  
AV011476932