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OHUG Product Catalogue

Edition 01

Section 15

Cable Locators & Accessories

Cable Locators & Accessories

428

3M™ Dynatel Locating & Marking Systems

3M™ Dynatel Locating and Marking Systems, comprising 3M™ Dynatel™ Locators, 3M Electronic Marking System and 3M EMS Caution Tape, provide accurate marking and locating of critical underground assets. Sophisticated systems allow programming of identifying features into intelligent markers using RFID technology and interfaces with GPS/GIS systems for accurate mapping.



3M™ Dynatel™ Locators

3M Dynatel™ utility locators combine simple interfaces and high-resolution graphics with precision locating to help you quickly and accurately identify underground assets. Easy to use units available in a range of configurations up to fully featured pipe, cable and electronic marker and tape locators.



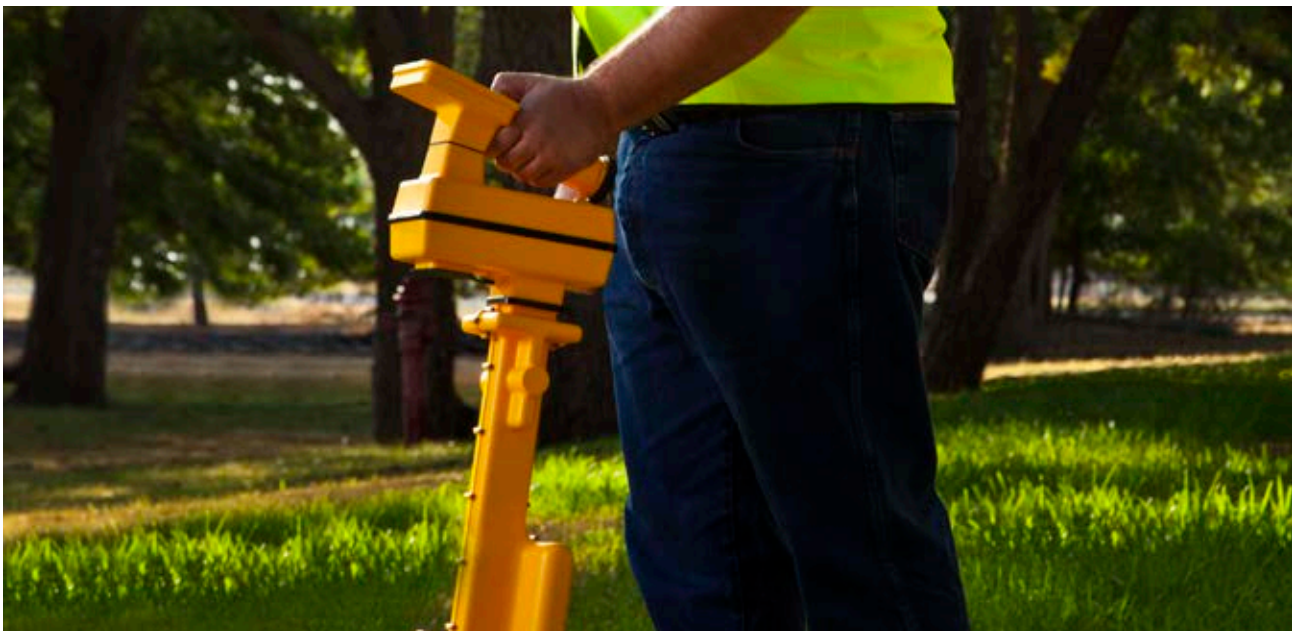
3M™ Electronic Marker System

Colour coded by industry and available in programmable iD versions to capture customer specific information. 3M utility markers help accelerate location and identification and avoid costly mistakes.



3M™ EMS Caution Tape

3M's next generation of underground infrastructure asset management - a revolutionary approach to locating plastic pipes and conduits that eliminates the need, problems and costs associated with tracer wire and associated surface test points.



3M™ Dynatel™ Locators

3M™ Dynatel™ Locator Features by Model

Model	7420	7550	7573
Order Code	3M829	3M828	3M825
Purpose	Marker/Tape/Rope	Marker/Tape/Rope	Pipe/Cable/Marker/Tape/Fault /Rope
Country	AU & NZ	AU & NZ*	AU & NZ*



Pipe and cable locate		✓	✓
Electronic marker locate/read/write	✓	✓	✓
EMS Caution Tape 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

*Different models in each country. Australian models are not permitted to be sold in New Zealand.

3M™ Dynatel™ Marker/Tape/Rope Locator 7420

3M™ Dynatel™ Marker/Tape/Rope Locator 7420 is a performance locator that quickly and efficiently locates all frequencies of 3M EMS Caution Tape/Rope and Electronic Markers. It has the capability to read/write to 3M™ Dynatel™ iD Enabled Markers and can locate most other conventional electronic markers.

Designed to be accurate, fast and integrated, the 7420 EMS Marker/Tape/Rope Locator with iD Read/Write allows you to accurately and easily:

- > Locate and follow the path of EMS Caution Tape/Rope
- > Locate and read 3M iD Markers
- > Write to 3M iD Markers
- > Pinpoint the depth and location of all existing models of properly installed underground passive EMS Markers
- > Identifies depth and direction of EMS Caution Tape and Rope

Cable/Pipe Locate	No
Ball and Marker Locate	Yes
3M EMS Caution Tape and Rope Locate Trace	Yes
Earth Return Fault Locate	No
GPS Adaptable	Yes

Product	Order Code	7000RB Rechargeable Battery	Carrying Bag Included
7420	3M829	Yes	Yes



3M™ Dynatel™ Pipe/Cable/EMS Locator 7550-iD

The 3M™ Dynatel™ 7550-iD locator represents an advancement in locating technology for the field professional. The 7550-iD locator allows users to locate the new 3M EMS Caution Tape and Rope, along with cables, pipes and the ability to read/write to 3M iD markers.

Features Include:

- > Locate and follow the path of 3M EMS Caution Tape and Rope
- > Six active frequencies (577 Hz, 1 kHz, 8 kHz, 33 kHz, 82 kHz, 133 kHz (NZ only), 200 kHz (AU only))
- > Maximum transmitter output of 12 watts
- > Trace view mapping interface that provides intuitive mapping display
- > Five modes of operation
- > Locate, write and read information into the 3M™ iD Electronic Marker System
- > Compatible with GPS
- > Lightweight, compact and well balanced
- > Rugged and durable

Cable/Pipe Locate	Yes
Ball and Marker Locate	Yes
3M EMS Caution Tape and Rope Locate Trace	Yes
Earth Return Fault Locate	No
GPS Adaptable	Yes

Product	Country	Order Code	Transmitter	Direct Connect Cable	Coupler Size	7000RB Rechargeable Battery (Locator)	2200RB Rechargeable Battery (Transmitter)	Carrying Bag Included
7550-ID/E12 - NZ	NZ	3M828	12 watt	Large clips	114 mm	Yes	Yes	Yes



3M™ Dynatel™ Pipe/Cable/EMS/Fault/Locator 7573-iD

The 3M™ Dynatel™ 7573-iD locator represents an advancement in locating technology for the field professional. The 7573-iD locator allows users to locate the new 3M EMS Caution Tape and Rope, along with cables, pipes and the ability to read/write to 3M iD markers. It can also be used for locating earth return faults.

Features Include:

- > Locate and follow the path of 3M EMS Caution Tape and Rope
- > Six active frequencies (577 Hz, 1 kHz, 8 kHz, 33kHz, 82 kHz, 133 kHz (NZ only), 200 kHz (AU only))
- > Maximum transmitter output of 12 watts
- > Trace view mapping interface that provides intuitive mapping display
- > Five modes of operation
- > Locate, write and read information into the 3M™ iD Electronic Marker System
- > Compatible with GPS
- > Lightweight, compact and well balanced
- > Rugged and durable
- > Precisely locates sheath or ground faults on both short and long cable sections

Cable/Pipe Locate	Yes
Ball and Marker Locate	Yes
3M EMS Caution Tape and Rope Locate Trace	Yes
Earth Return Fault Locate	Yes
GPS Adaptable	Yes



Product	Country	Order Code	Transmitter	Direct Connect Cable	Coupler Size	7000RB Rechargeable Battery (Locator)	2200RB Rechargeable Battery (Transmitter)	Carrying Bag Included
7573-IDE/E12 - NZ	NZ	3M825	12 watt	Large clips	114 mm	Yes	Yes	Yes

3M™ Electronic Marker System

3M Electronic Markers provide accurate identification of underground assets, helping to reduce the risk of accidentally excavating other buried facilities. All markers function without the need for an external power source. Their water resistant polyethylene shells are impervious to minerals, chemicals and the temperature extremes normally found underground.

iD Markers can be programed to include customer-specific information about the asset, such as the facility owner, conduit size, placement date, and other important details. This information can be accessed using 3M locators with the iD function.



The 3M™ Electronic Marker System (EMS) helps save utility companies time and money by enabling field crews to quickly pinpoint the location of buried facilities including cable runs, splices and joints, valves, bends, road crossings, service drops and manholes. Using EMS Markers during construction, installation and maintenance virtually eliminates the time consuming search for hard-to-locate facilities.

3M™ Electronic Marker System Overview

	Telephone	Power	CATV	General	Water	Wastewater	Gas	3M iD and EMS Markers Read Range		
	Orange	Red	Black Orange	Purple	Blue	Green	Yellow	Using 7420-ANZ or 7550 or 7573 AU models Using 7550 or 7573 NZ models		
iD (Programmable)	1421-XR/iD	1421-XR/iD	1422-XR/iD	1427-XR/iD	1428-XR/iD	1423-XR/iD	1424-XR/iD	1425-XR/iD	1.5 m	1.2 m (Tel, Gas, WW, CATV) 1.0 m (Power, water)
	1432-XR/iD	1432-XR/iD	1433-XR/iD	1438-XR/iD	1434-XR/iD	1435-XR/iD	1436-XR/iD	1436-XR/iD	0.9 m	0.6 m
	1250-XR/iD	1250-XR/iD	1251-XR/iD	1248-XR/iD	1252-XR/iD	1253-XR/iD	1254-XR/iD	1254-XR/iD	2.4 m	2.0 m
Passive	1401-XR	1401-XR	1402-XR	1407-XR	1408-XR	1403-XR	1404-XR	1405-XR	1.5 m	1.5 m
	1432	1432	1433			1434	1435	1436	0.6 m	0.6 m
	1250	1250	1251			1252	1253	1254	2.4 m	2.4 m

*0.9 m for passive near-surface markers, 0.6 m for iD (programmable) near surface markers

3M™ EMS Near Surface Markers

3M EMS Near-Surface Markers provide an accurate, long lasting method of marking underground facilities. The markers have a range of up to 1 metre from marker to locator and can be programmed to include customer specific information (iD version).



Product	Order Code	Programmable/Passive	Application	Colour	Depth	Height x Diameter
1432	POA	Passive	Telephone	Orange	0.9 m	76 mm x 20 mm
1433	POA	Passive	Power	Red	0.9 m	76 mm x 20 mm
1434	POA	Passive	Water	Blue	0.9 m	76 mm x 20 mm
1435	POA	Passive	Wastewater	Green	0.9 m	76 mm x 20 mm
1436	POA	Passive	Gas	Yellow	0.9 m	76 mm x 20 mm
1432-XR/iD	POA	Programmable	Telephone	Orange	0.6 m	76 mm x 20 mm
1433-XR/iD	POA	Programmable	Power	Red	0.6 m	76 mm x 20 mm
1434-XR/iD	POA	Programmable	Water	Blue	0.6 m	76 mm x 20 mm
1435-XR/iD	POA	Programmable	Wastewater	Green	0.6 m	76 mm x 20 mm
1436-XR/iD	POA	Programmable	Gas	Yellow	0.6 m	76 mm x 20 mm
1438-XR/iD	POA	Programmable	General Purpose/ Recyclable Water	Purple	0.6 m	76 mm x 20 mm

3M™ EMS Ball Markers

The 3M EMS Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how the ball is placed in the ground, making the job of precisely locating underground facilities easier.



Product	Order Code	Programmable	Application	Colour	Depth	Diameter
1401-XR	3M833	Passive	Telephone	Orange	1.5 m	102 mm
1402-XR	3M824	Passive	Power	Red	1.5 m	102 mm
1403-XR	POA	Passive	Water	Blue	1.5 m	102 mm
1404-XR	POA	Passive	Wastewater	Green	1.5 m	102 mm
1405-XR	3M835	Passive	Gas	Yellow	1.5 m	102 mm
1407-XR	POA	Passive	CATV	Orange/Black	1.5 m	102 mm
1408-XR	3M830	Passive	General Purpose/Recycled Water	Purple	1.5 m	102 mm
1421-XR/ID	POA	Programmable	Telephone	Orange	1.5 m	102 mm
1422-XR/ID	POA	Programmable	Power	Red	1.5 m	102 mm
1423-XR/ID	POA	Programmable	Water	Blue	1.5 m	102 mm
1424-XR/ID	POA	Programmable	Wastewater	Green	1.5 m	102 mm
1425-XR/ID	3M802	Programmable	Gas	Yellow	1.5 m	102 mm
1427-XR/ID	POA	Programmable	CATV	Orange/Black	1.5 m	102 mm
1428-XR/ID	3M832	Programmable	General Purpose/Recycled Water	Purple	1.5 m	102 mm

3M™ EMS Full-Range Markers

3M EMS Full-Range Markers provide an accurate, convenient, long lasting method of marking underground facilities. The marker has a range of up to 2.4 metres from marker to locator.



Product	Order Code	Programmable/Passive	Application	Colour	Depth	Diameter x Thickness
1250	POA	Passive	Telephone	Orange	2.7 m	381 mm x 17 mm
1251	POA	Passive	Power	Red	2.7 m	381 mm x 17 mm
1252	POA	Passive	Water	Blue	2.7 m	381 mm x 17 mm
1253	POA	Passive	Wastewater	Green	2.7 m	381 mm x 17 mm
1254	POA	Passive	Gas	Yellow	2.7 m	381 mm x 17 mm
1248-XR/ID	POA	Programmable	General Purpose/ Recyclable Water	Purple	2.4 m	381 mm x 17 mm
1250-XR/ID	POA	Programmable	Telephone	Orange	2.4 m	381 mm x 17 mm
1251-XR/ID	POA	Programmable	Power	Red	2.4 m	381 mm x 17 mm
1252-XR/ID	POA	Programmable	Water	Blue	2.4 m	381 mm x 17 mm
1253-XR/ID	POA	Programmable	Wastewater	Green	2.4 m	381 mm x 17 mm
1254-XR/ID	POA	Programmable	Gas	Yellow	2.4 m	381 mm x 17 mm

3M™ EMS Path Marking Tape and Rope

A new approach to path marking

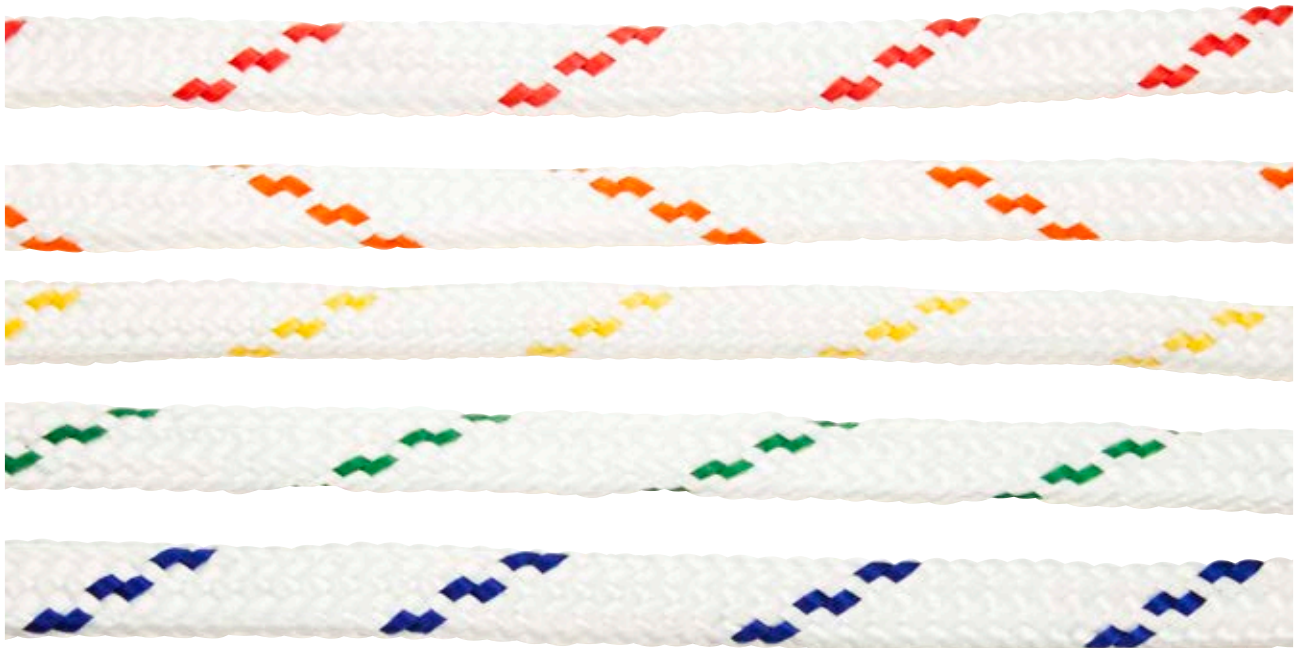
Our latest innovation, 3M™ EMS Path Marking Tape and Rope, is virtually a maintenance-free solution for marking and locating the path of underground plastic pipes and conduits that helps eliminate the problems and costs associated with tracer wire and test stations.

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	2.5 m	7611XR	7612XR	7613XR	7614XR	7615XR
	Up to 0.9 m	400 m	3.6 m	7611	7612	7613	7614	7615
Rope	Up to 1.2 m	300 m	2.5 m	7701-HTS	7702-HTS	7703-HTS	7704-HTS	7705-HTS
	Up to 1.2 m	300 m	2.5 m	7701-R	-	-	-	-
HTS = High Tensile Strength				XR = Extended Range		R = In-Conduit		



3M™ Direct Connect Accessories

Product & Country	2876 AU & NZ	8006 AU & NZ	9043 AU & NZ
			
Order Code	POA	POA	POA
Product Name	3M™ Large Clip Direct-Connect Transmitter Cable for Most Cable/Fault Locators 2876	3M™ Ground Rod 8006	3M™ Ground Extension Cable 9043
Description	Two lead, 3 m cables used for direct connection to cable and ground	For applying ground capability. Stainless steel	Extends ground capability to 3.6 m
Compatible with	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550, 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550, 7573	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550, 7573

3M™ Couplers



Product & Country	1196/C NZ	
		
Order Code	3M805 (Kit)	
Product Name	3M™ 152 mm Dyna-Coupler 1196/C	3M™ Ground Extension Cable 9043
Description	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 175 mm.	For use with any Dynatel Transmitter, Receiver, or Coupler: length of 3.6 m
Compatible with	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550, 7573	

3M™ Sondes

Product	3229
Order Code	POA
Product Name	3M™ ADP 33KHZ Sonde 3229 for use with Dynatel Series Locators
Dimension	150 mm length x 42 mm width
Weight	260 grams (with battery) and 215 grams (without battery)
Description	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
Compatible with	2250/2273, 2220M, 2250M/2273M, 2550/2573, 7550, 7573



3M™ Fault Finding Accessories

Product	3014	9026
		
Order Code	POA	POA
Product Name	3M™ Earth Contact Frame 3014	3M™ Earth Contact Frame Cable 9026
Description	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
Compatible with	2273, 2273M, 2573, 7573	2273, 2273M, 2573, 7573

3M™ Locator Carry Bags, Batteries and Chargers

Product & Country	2200M	2200RB	2200RB Adaptor	7000RB	7000RB Adaptor
					
Order Code	POA	POA	POA	POA	POA
Product Name	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 Battery
Description	Soft carrying bag for the 1420, 2200M, 2500M, 2273M and 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
Compatible with	1420, 2200M, 2250M/2273M, 7420, 7550, 7573	2273, 2250, 7550, 7573	2273, 2250, 7550, 7573	7420, 7550, 7573	7420, 7550, 7573



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