

Marker Solutions for the Telecommunications Industry

The 3M Electronic Marker System (EMS) may help save telecommunications companies time and money by allowing utility field crews to quickly pinpoint the location of all types of buried facilities including buried splices, fiber optic facilities, service drops and manholes. Using EMS markers during construction, installation and maintenance virtually eliminates the time consuming search for "lost" facilities.



With our Full-Range, Mid-Range, Ball and Near-Surface Markers, there is a marker to meet almost every need. A four-inch Disk marker is also available for marking hand holes. These markers easily attach to lids or covers over flush-mounted facilities. Markers are passive antennas with no internal power source to run down. Their water-resistant, polyethylene shells are impervious to minerals, chemicals and the temperature extremes normally found underground.

3M ID MARKERS

3M iD markers are designed to provide an accurate, convenient, long-lasting method of marking underground assets. In addition, these markers may be programmed to include customer-specific information such as facility data, type of application, material type and size, placement date and other important details.





3M™ Electronic Marker System for the Telecommunications industry



THE SAFE CHOICE

There is no guesswork with the 3M Electronic Marker System. 3M markers operate even in the presence of metal conduit or pipe, metallic conductors, fences, AC power lines and electronic markers of other utilities. All EMS markers are color-coded to APWA standards for visual reference and each utility has its own frequency. For telephone utilities, all markers are orange in color. EMS signals provide positive identification of each utility, thus helping to reduce the risk of accidentally locating and excavating other buried facilities.

3M POWER UTILITY MARKERS

	Product Name	Description	Stock Number
	3M™ EMS Near-Surface Marker 1432	Near-Surface Marker - designed to provide an accurate, convenient, long-lasting method of marking underground and street-access facilities.	80610230312
	3M™ iD Near-Surface Marker 1432-XR/iD	3M iD markers may be programmed to include customerspecific information such as facility data, type of application, material type and size, placement date and other important details.	80611321292
	3M™ Disk Marker 1411-XR	Extended Range Disk Marker - designed to provide an easy, accurate method of locating flush-mounted facilities which become covered by backfill or other obstructions, such as snow or overgrown vegetation. (Do Not Direct Bury)	80611161185
	3M™ iD Disk Marker 1411-XR/iD	3M iD markers may be programmed to include customerspecific information such as facility data, type of application, material type and size, placement date and other important details. (Do Not Direct Bury)	80611303514
	3M™ EMS 4" Ball Marker 1401-XR	Extended Range Ball Marker - provides self-levelling design providing accurate, horizontal position regardless of how it is placed in the ground and making the job of precisely locating easier.	80611161136
	3M™ iD Ball Marker 1421-XR/iD	3M iD markers may be programmed to include customerspecific information such as facility data, type of application, material type and size, placement date and other important details.	80611142193
\begin{array}{c}	3M™ EMS Mid-Range Marker 1255	Mid Range Marker - designed to provide an accurate, convenient, long-lasting method of marking underground power facilities.	80610221915
	3M™ EMS Full-Range Marker 1250	Full-Range Marker - designed to provide an accurate, convenient, long-lasting method of marking underground power facilities.	80610221017
	3M™ iD Full-Range Marker 1250-XR/iD	3M iD markers may be programmed to include customerspecific information such as facility data, type of application, material type and size, placement date and other important details.	80611321235

ELECTRICAL SPECIFICATIONS

	3M iD Markers Read Range		3M iD Passive Markers Read Range*
	With a U.S. Locator	With a Export (CE) Locator	
Near Surface	3 ft (0.9 m)	10 cm	2 ft (0.6 m)
Ball Marker	5 ft (1.5 m) 5 ft (1.5 m)	1.2 m (Tel, Gas, WW, Comm) 1.0 m (Pwr, Wtr)"	
Mid Range	N/A	N/A	6 ft (2 m)
Full Range	9 ft (2.75 m)	2.2 m	8 ft (2.4 m)

THE EMS TELECOMMUNICATIONS SERIES CAN BE USED TO MARK:

• Buried splices

Service drops

Load coils

• Conduit stubs

• Fiber optic facilities

Bends

Hand holes

• Cable paths — fiber

Manholes

• Slack loops

THE EMS TELECOMMUNICATIONS SERIES CAN BE USED TO MARK:

3M[™] Dynatel[™] offers the following electronic marker and multipurpose locators.



3M™ Dynatel™ Marker Locator 1420-iD



3M[™] Dynatel[™] Cable/Pipe and Marker Locator 2250M-iD



3M[™] Dynatel[™] Cable/Pipe/Fault and Marker Locator 2273M-iD



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