

Fiber Marking & Locating

Protect your Fiber Network!

Ensure your buried networks are precisely found.

FAST

92kHz Fiber OmniMarker[™] can be placed in any orientation. Fiber enhanced Marker-Mate's scan mode can locate all 9 electric utilities simultaneously.

ACCURATE

The 3 orthogonally mounted coils of the OmniMarker[™] produce a stronger signal and the Marker-Mate's pinpoint feature can detect precise location.

RELIABLE

No MSDS for our OmniMarkers[™] means no fluids to be spilled which reduces mitigation cost and the Marker-Mate's ability to detect all marker brands mean you only need one tool.

**NEW
PRODUCT**

92kHz Fiber
OmniMarker[™]



Marker-Mate

FIBER MARKING & LOCATING

OMNI MARKER AND MARKER-MATE

FOR PRODUCT VIDEOS,
DEMONSTRATIONS AND MORE VISIT:
www.youtube.com/GreenleeDEMO

BENEFITS

Fiber Omni-Marker

- **Easy to use:** Does not require any particular orientation when buried and fits into standard 4 inch trench with NO EXTRA DIGGING.
- **Reliable:** No floating parts or liquids to contaminate the environment.

Marker-Mate

- **The Right Tool:** The scan mode and pinpoint accuracy within the EML-100 reduces time locating OmniMarker™, UniMarker™ and other markers made to industry standard frequencies.
- **Accurate:** User-Adjustable detection threshold is shown in bar graph, numerica and audible signal strength options and is equipped with battery warnings within its rugged design.

GENERAL	
Housing Material	High density welded polyethylene
Identification	Solid moulded colour and moulded text
Detection Range	1.5 m typical (5 ft) for all models (using Greenlee EML-100 or RD8000MRX)
US Patents	5,699,048 and 6,097,293
ELECTRICAL	
Detection Field	Dipole (Uni Marker model), Spherical (Omni Marker model)
Frequency tolerance	± 0.35 %
Detection Offset	15 cm (6") maximum at 1.5 m (5 ft)
MECHANICAL	
Overall Diameter	115 mm (4½") max
Minimum Trench Width	100 mm (4") Omni Marker case is dimpled to allow this 115 mm (4½") for UniMarker devices
Anchoring	Two "tie down" loops along flange. UniMarker devices are supplied with a mounting clip
Detection Offset (for OmniMarker or horizontally mounted UniMarker)	15 cm (6") maximum at 1.5 m (5 ft)

Weight	136 g (0.3 lb) OmniMarker models 70 g (2½ oz) UniMarker models
Interior Foam (OmniMarker models only)	Ensures precise mechanical alignment of the coils and structural strength.
ENVIRONMENTAL	
Water Penetration	Housing welded leak tight. Pressure tested at production.
Crush strength	35 pounds (155 N) applied with 0.187" (4.75 mm) radius point causes less than 0.25" (6 mm) deflection. 400 pounds (1780 N) uniformly distributed load with 1.5" (40 mm) aggregate.
Puncture resistance	22 pounds (100 N) applied with a point that has a 1/64 Inch (0.4 mm) radius.
Chemical Resistance	High density polyethylene has good resistance to non-oxidising acids, alkalis and solvents (tested with diesel fuel, gasoline, alcohol, acetone and motor oil).
Drop and Shock Resistance	20 foot (6 m) drop on concrete
Interior Foam (OmniMarkers only)	Provides mechanical alignment of the coils and structural strength.
Temperature	-30 C to +65 C (operation), -40 C to +75 C (storage)
UV Resistance	1 year direct sunlight (simulating storage)

ORDERING INFORMATION

CAT NO.	DESCRIPTION
ELM 100	Marker Mate Locator

MARKER BALLS

NEW	COLOUR(S)		FREQ. (kHz)	COMMON USE	UNIMARKER	OMNIMARKER
	Yellow	Black	92.0	Fiber Optic	0183	0180
	Purple		66.35	Non-potable water	0178	0168
	Orange	Black	77.0	Cable TV	0175	0165
	Yellow		83.0	Gas	0174	0164
	Orange		101.4	Telephone	0173	0163
	Green		121.6	Sanitary	0172	0162
	Red	Blue	134.0	European Power	0182	0181
	Red		145.7	Water	0171	0161
	Blue		169.8	Power	0170	0160



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