



Better FTTx, Better Life.



July 2025

Technical Information

FCST-MB169.8kHz Marker Ball -For Electricity

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FCST Marker Ball

The Marker Ball uses HDPE packaging and has the characteristics of chemical corrosion resistance and pressure resistance. It supports multiple industry applications and multiple working frequency options, such as: Electricity (169.8kHz) etc.



- No harmful fluid inside.
- Detection range up to <1.5m.
- High location precision marker ball.
- For manholes or direct buried installation.
- Self orientation RF reflector ensures best detection range and accuracy.
- The induction coil is suspended on the built-in antifreeze and can be kept horizontally upward.



IP68



Product Specifications

Construction	Description
Product Type	EX.ID version
Frequency	169.8kHz
Identification Depth	1.5m
Maximum Detectable Depth	1.5 m (EX.ID version)
Service Life	50 years
Diameter	Φ120mm 4.724in
Height	115mm 4.528in
Material	HDPE
Weight	400g(±20g)
Protection Level	IP68
Storage Temperature	-40℃ to +70℃
Operating Temperature	-40℃ to +60℃
Marker Ball Distance	Maximum distance 50m
Drop Test	Can withstand a 1.5m drop to the concrete floor.
Stress Resistance	Withstands 400kg pressure, the ball has no permanent damage, no cracks and leaks, and no damage to its electronic tag function.
Detector Compatibility	ED8000 or other detectors with the same frequency (for example: 3M Dynatel series) can read
Packaging Info.	30pcs/cnt 12.75kg 0.043cbm(560*225*340mm) 18cnt/pallet 247kg 2.016cbm(2100*800*1200mm)



Ordering Information

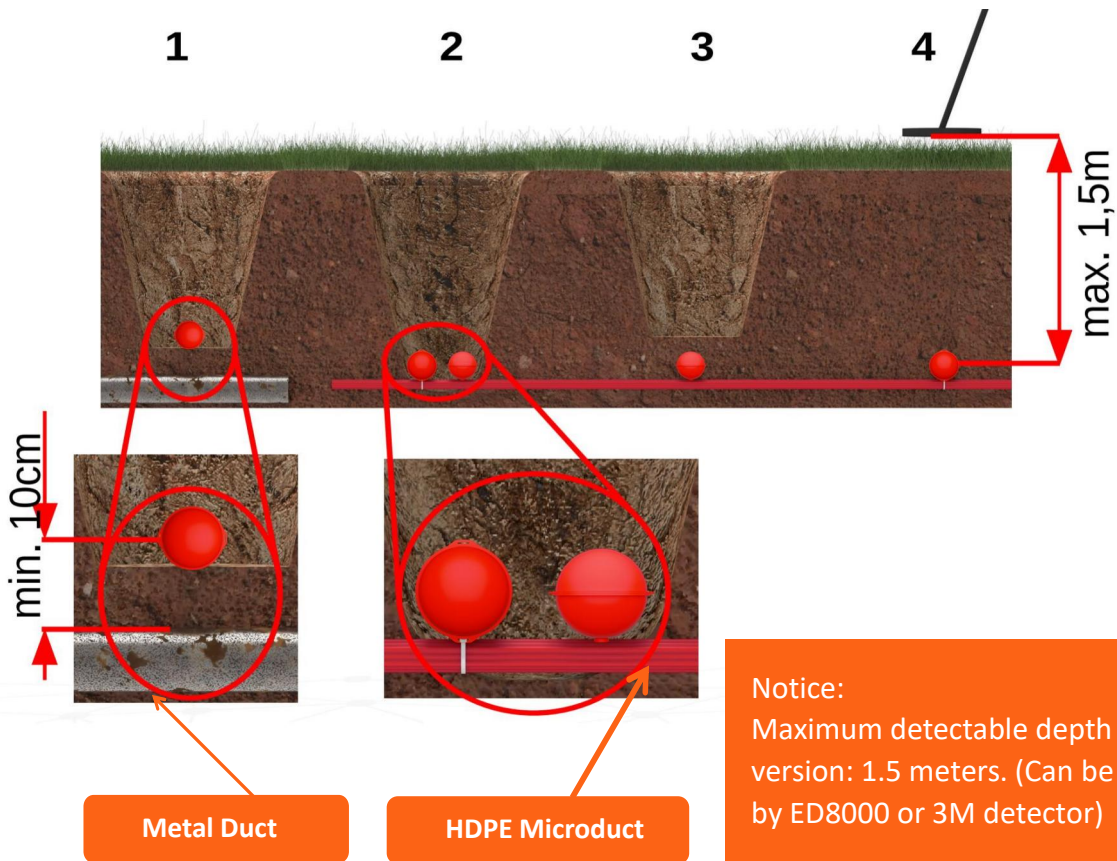
FCST-MB Marker Ball--

A

A- Accessory Type
A1 Cable Tie
A2 N/A



Product Applications



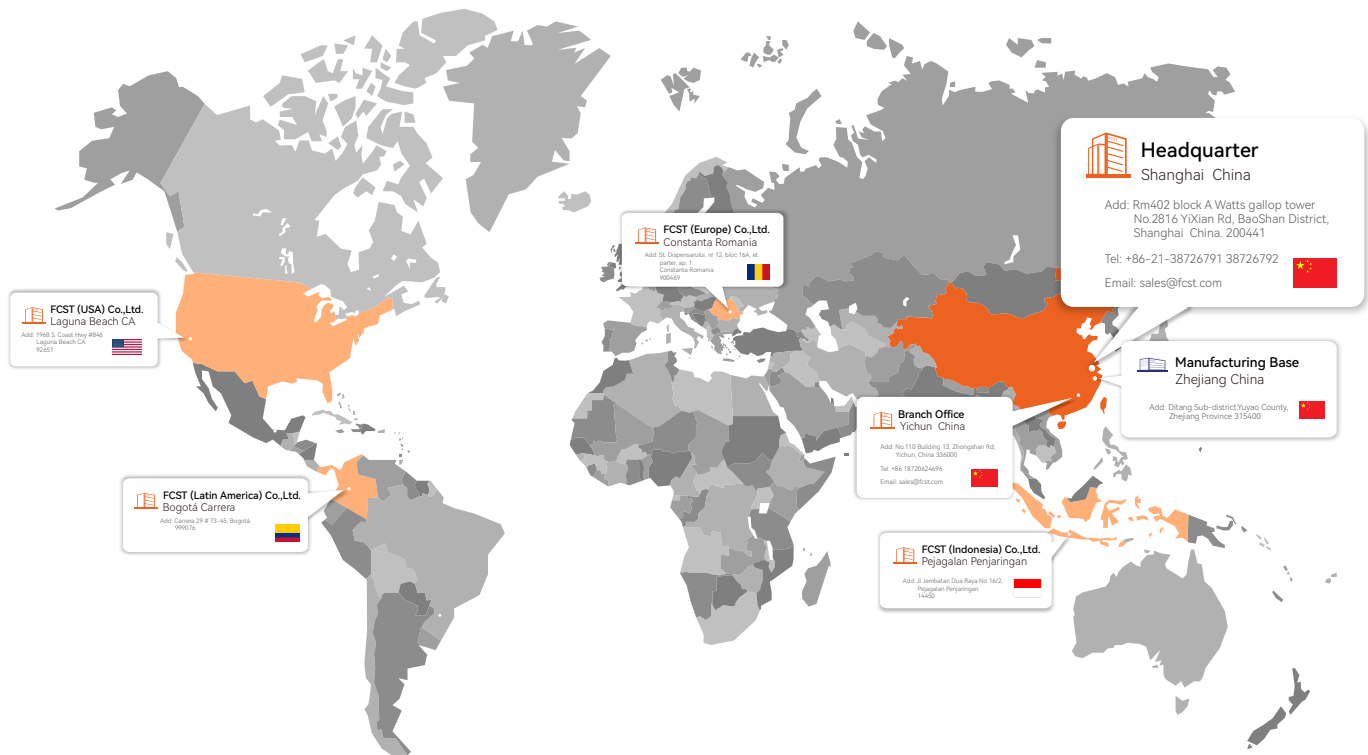

Related Products

Colour	Applications	Frequency	Picture
Purple	Non-Potable Water	66.35kHz	
Black/Orange	Cable TV	77.0kHz	
Yellow	Gas	83.0kHz	
Orange	Telecom	101.4kHz	
Green	Sanitary	121.6kHz	
Blue/Red	Europower	134.0kHz	
Blue	Water	145.7kHz	



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Fiber Cable Solution Technology Co.,Ltd.



FCST - Better FTTx, Better Life.

At FCST, we manufacture top-quality microduct connectors, microduct closure, telecom manhole chambers and fiber splice boxes since 2003. Our products boast superior resistance to failure, corrosion, and deposits, and are designed for high performance in extreme temperatures. We prioritize sustainability with mechanical couplers and long-lasting durability.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicated to expanding globally, evolving our products, and tackling modern challenges with innovative solutions. As technology advances and connects billions more devices, FCST helps developing regions leapfrog outdated technologies with sustainable solutions, evolving from a small company to a global leader in future fiber cable needs.

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