# AccuRef 30
## Copper / Copper Sulfate Permanent Reference Electrode

*Item #14627*

## FEATURES & BENEFITS

- Electrodes are buried directly with native soil backfill – no need for composite backfills. Note: These products are suitable for use in neutral soil having a chloride ion content <500ppm. [AccuRef Silver/Silver Chloride electrodes are recommended for use in higher chloride ion content soils]
- Depressed electrolyte freezing temperature of -20°C allows electrodes to experience a deep frost without freezing and cracking.
- Design life of 30 years *(please see "Important Notes" below)*
- Large electrical contact area (electrically active surface area) having hygroscopic characteristics promotes good electrode-to-soil electrical contact. [Note: Soil moisture content is a requirement for a buried metallic structure potential reading versus any permanently installed reference electrode, which means that readings in ultra-dry soil are not possible]

## SPECIFICATIONS

- Sealed cable type/length (standard): 25 feet of #12 AWG stranded copper wire coated with XLP (USE-2/RHH/RHW-2) insulation; 600V rating, 90°C max. temp. in wet & dry environments
- Active electrical contact surface area: approx. 16.4 inches²
- Half-cell materials: 80 grams of 99.99% copper and 500ml of saturated copper sulfate gel electrolyte
- Max. diameter: 2.77 inches, Overall length (not including sealed cable): 15 inches, Weight (including sealed cable): 3.9 lbs

***Important Notes:***

*1) These products must be installed according to the installation instructions provided*
*2) These products are not guaranteed to maintain their calibration in all soil environments and it is incumbent on the customer to test their soil for chloride ion content and for the presence of any other potential chemical contaminants prior to installation of these products. The M. C. Miller Company has not tested these products with regard to the effects of specific (potential) chemical contaminants on their calibration.*
*3) These products are not designed for submersion applications.*