



## Prostal Limited.

Vat number: 24849130

1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan

TEL: +886-3-4828372 Fax: +886-3-4828377

URL: www.prostal.com.tw E-MAIL: joan@prostal.com.tw

## CCS, Copper Clad Steel Wire

### 12AWG, P/N: ZZHDPE210914

Issue date: Feb. 2014

Our CCS cable approved by the CCC, ISO, PCCC certificates.



Copper clad steel wire (CCS) combines the high tensile strength of steel as its core and the conductivity properties of copper as its outer layer.

The core material is usually low carbon steel and is typically used as either grounding wire or the inner conductor of coaxial cables.

Copper clad steel is made to ASTM B-452 standards with 21%, 30%, or 40% conductivity in two tempers: soft and hard drawn.

The steel core alloy can theoretically be any grade suitable for the wire's end purpose.

Copper clad stainless steel (CCSS), in the 300 series as core, may be specified for certain medical applications.

Copper clad steel wire can be produced bare or electroplated with gold, silver, tin, solder, and nickel.

Enamel insulations are also an option. See the magnet wire insulation guide for film selections.



## Features of Copper Clad Steel Wire (CCS Wire):

**High intensity:** it is 2 times than pure copper wire that is if the tensile strength of pure copper wire is about 215 to 265 Mpa, then CCS can reach 430 to 530 Mpa.

**Light weight:** lighter 13% than pure copper wire. Under the same wire size and weight, its length is 1.13 times than that of pure copper wire. So buying 1 ton CCS wire is the same as buying 1.13 tons of pure copper wire.

**Saving cost:** CCS wire price is just 35% of that of pure copper wire and its appearance quality is the same with pure copper wire. Reducing greatly the production cost while guaranteeing the same quality as well as pure copper wire.

### Application:

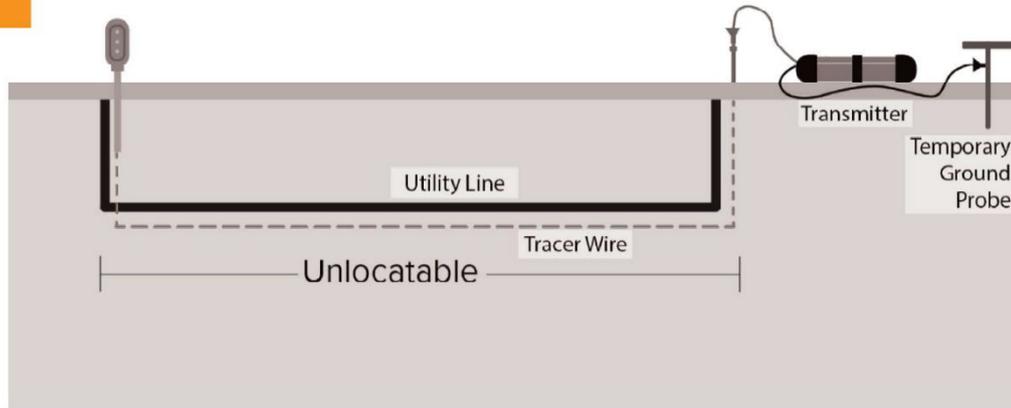
- UTP cable(Unshielded Twisted Pair Cable)
- CATV cable
- Hookup communication wires
- Indoor Telephone Line
- The output lead wires & connecting lines of electronic devices
- The power transmission cable for electric railway
- Railway connection lines
- Military field cables
- Special electronic devices





**Technical Sheet**

# Tracer Wire



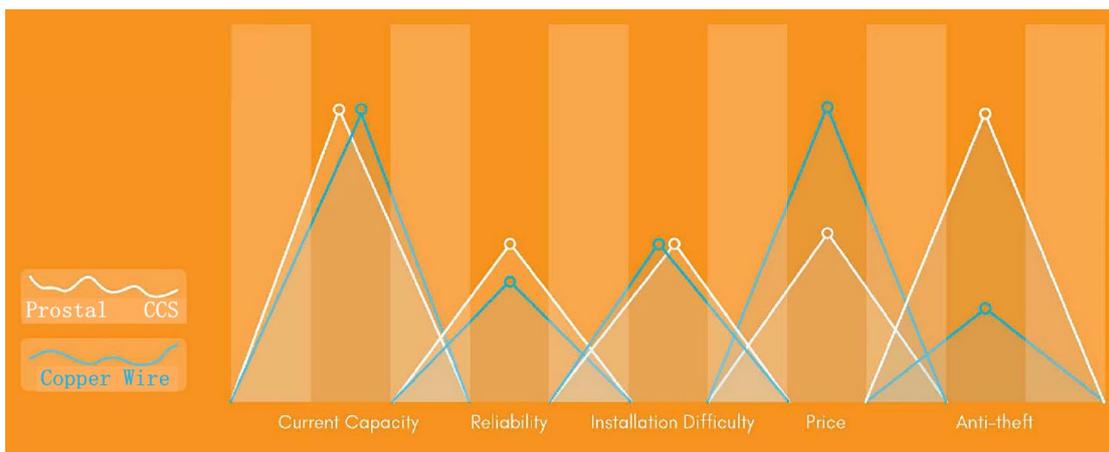
Tracer wire not properly grounded results in a missing signal and incomplete circuit.

CCS tracer wire is consist of a solid copper clad steel (CCS) conductor of 8-14 AWG with 30/45 mil thick, high density polyethylene (HDPE) insulation which rated for 30-600 volts. Insulation is RoHS compliant and cable is CE certified.

	AWG	OD (mm)	Section Area (mm <sup>2</sup> )	Conductivity IACS(%)	Tensile strength (Mpa)	Elongation (%)	Density g/cm <sup>3</sup>
CCS	0-24	0.511-8.25	0.205-53.49	21-30	270-1800	1-30	8.0-8.4

\* Flat & square wire is also available  
\* For Detailed specification, please contact our sales team.

CCS tracer wire is used in the detection of underground piping and other underground utility installations.



We specialized in developing and manufacturing bimetallic wire material for Power, Automotive, Telecommunication, Railway, Military, & Aerospace industries.