



Prostal Limited.

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CCS, Copper Clad Steel Wire

12AWG, P/N: ZZHD210914

Issue date: Feb. 2014

Our 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.



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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





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Technical Sheet

Type	Unit	CCS 12AWG
Application Standard		ASTM B452
Number of cores	Nos	1
Conductor		
- Cross Sectional Area	AWG	12
-Nos./Dia. Of copper wire	Nos./mm	1/2.05
- Conductor	/	Copper clad teel CCS)
- Appro. Weight	kg/km	26.34
Outer Sheath		
- Material Color	/	HDPE
- Thickness	MIL	30
Cable		
- Overall Dia. Of Cable	mm	3.65
- Appro. Weight	kg/km	32
Packing	/	
CCS	/	15km/drum, 0.6*0.6*1m, 450kg/drum
CCS+30MIL	/	12km/drum, 0.6*0.6*1m, 440kg/drum
-conductivity IACS	/	20%
-D.C. Resistance at 20 °C	$\Omega\text{mm}^2/\text{m}$	≤ 0.04397
Strength of extension	MPA	≥ 310
Torsion experiment	/	≥ 20
Elongation	%	≥ 15