

# CU OVERHEAD CATENARY WIRE

Contact / Trolley Wire for Transit Systems



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

This product offers: excellent corrosion resistance, wear characteristics, and high-tensile strength properties. Hard Drawn Copper trolley wire is offered in the ASTM configurations: grooved, figure 8, or figure 9.

## APPLICATIONS AND FEATURES:

For use as overhead power source for subways, light and heavy transit systems, electrically powered mine train, buses, and industrial cranes. Southwire hard drawn copper trolley wire is ideal for high-speed rail transportation system.

- Mechanically Rugged
- High Tensile Strength and Breaking Load
- Low Thermal Loss
- RoHS/Proposition 65 Compliant
- Stable and Reliable for Long Term use
- Easy to Install for Renovating Existing Lines in the Field.

## SPECIFICATIONS:

- ASTM B47 Copper Trolley Wire
- ASTM B116 Figure-9 deep-section grooved and Figure-8 copper trolley wire for use in industrial haulage
- EN 50149 Railway Applications. Fixed Installations. Electric Traction. Copper and Copper Alloy Grooved Contact Wires.

**Table 1 – Physical and Electrical Data**

Stock Number	Cond. Shape	Cond. Size	Cond. Area	Cond. Number	Approx. OD	Approx. Weight	DC Resistance @ 20°C	Rated Strength
		AWG/kcmil	cmil	No.	inch	lb/1000ft	$\Omega$ /1000ft	lb
TBA	grooved	2/0	137,900	1	0.392	416.61	0.0774	5,438
TBA	grooved	3/0	167,300	1	0.430	506.44	0.0638	6,374
592467	grooved	4/0	212,000	1	0.482	641.86	0.0504	7,780
597541	grooved	300	299,800	1	0.574	907.58	0.0371	9,993
587578	grooved	350	351,200	1	0.620	1062.88	0.0304	11,812

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item



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## Notes:

1. These numbers represent the minimum percent IACS conductivity of the alloys. Other alloys are available subject to special inquiry.
2. Figure 8 and 9 wire are also available upon request. Size 6 AWG (336,200 Cmil) Grooved wall will be regularly furnished as 350,000 Cmil size
3. Tolerances: The above data are approximately and subject to normal manufacturing tolerances Weights, breaking strengths and resistance are base on nominal dimensions

