

OVERHEAD CATENARY WIRE PURE HARD DRAWN COPPER

CuMg 0.2 (Alloy80)/CuMg 0.5 (Alloy 55) Contact CuMg0.2 and CuSn0.2/ Trolley Wire



Images 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. 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.

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Table 1 – Weights & Measurements

Conductor Size	Overall Diameter	Area		Weight		Tensile Strength (Min)	Resistance @ 68°F 20°C		Min Breaking Strength
		Cmils	Inches ²	Pounds/1,000 Ft.	Pounds/Mile		Ω/1,000ft	Ω/Mile	
2/0	0.392	137,900	0.1083	416.61	2205	50,200	0.0774	0.4087	5,438
3/0	0.430	167,300	0.1314	506.44	2674	48,500	0.0638	0.3369	6,374
4/0	0.482	212,000	0.1665	641.86	3389	46,600	0.0504	0.2659	7,780
300	0.574	299,800	0.2355	907.58	4792	44,200	0.0356	0.1880	10,415
350	0.620	351,200	0.2758	1062.88	5612	42,800	0.0304	0.0997	11,812

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

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