

OVERHEAD CATENARY WIRE

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

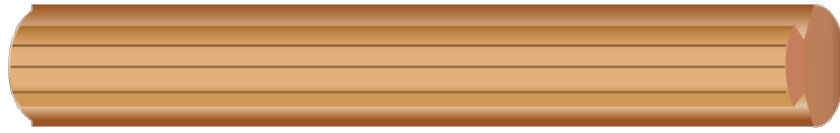


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

This product offers: excellent corrosion resistance, wear characteristics; and high-tensile strength properties. Bronze trolley wire is available in a choice of two alloys to provide the best match of electrical and mechanical wear properties for each application - 55 percent and 80 percent conductivity IACS (CA165 and A162), and is offered in the ASTM configurations: round, 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. High-tensile strength properties allow for reduced clearance maintenance in tunnel applications. Southwire bronze trolley wire is ideal for high-speed rail transportation system.

- Exceptionally Low Thermal Loss
- Outstanding Increase in Conductivity
- Highest Half-Hard Value of any Materials in Present Day Use.
- Flexible to Wind and Vibration
- Durable and Reliable Support
- Allows for Increase in Max Line Speeds
- Mechanically Rugged
- High Tensile Strength and Breaking Load
- RoHS/Proposition 65 Compliant

SPECIFICATIONS:

- ASTM B9 Bronze Trolley Wire
- EN 50149 Railway Applications. Fixed Installations. Electric Traction. Copper and Copper Alloy Grooved Contact Wires.

Table 1 – Physical and Electrical Data

Cond. Shape	Cond. Metal	Cond. Size	Cond. Area	Cond. Number	Approx. OD	Approx. Weight	DC Resistance @ 20°C	Rated Strength
		AWG/kcmil	cmil	No.	inch	lb/1000ft	Ω/1000ft	lb
round	alloy 80	300	300000	1	0.5477	908.0	0.04322	14490

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. Bronze trolley wire is normally manufactured from alloys 55 or 80
3. Figure 9 wire, dimensions given are nominal height of entire section and width of lower lobe. Size 6/0 AWG (336,200 Cmil) grooved wall will regularly be furnished as 350,000 Cmil size. are also available upon request. Size 6 AWG (336,200 Cmil) Grooved wall will be regularly furnished as 350,000 Cmil size
4. Tolerances: The above data are approximately and subject to normal manufacturing tolerances Weights, breaking strengths and resistance are base on nominal dimensions
*mm²

