Hard-Drawn Copper, Grooved Contact Wire, 30% SouthWear®

Contact / Trolley Wire for Mass Transit and Industrial Haulage



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

This product offers the industry's most commonly used, best conductivity, wear characteristics and tensile strength properties. Hard Drawn Copper contact/trolley wire is available in the ASTM configurations: grooved, figure 8, or figure 9.

APPLICATIONS AND FEATURES:

SouthWear® Contact Wire is mechanically rugged commonly used as an overhead power source on streetcars, trolleys, electric trolley buses, light rail, commuter rail and high speed railway mass transit systems. Features a 30% wear mark on the side of the wire to provide visual identification when the percentage of wear has met or exceeded the industries allowable safe tolerance for wear. Southwire hard drawn copper trolley wire is ideal for line speeds of up to 100 mph (160 km/h).

- Industry Standard Tensile Strength and Breaking Load
- Increase in Conductivity over CuMG, CuAG, and CuSN
- High Tensile Strength and Breaking Load
- Ships on N-42 wooden reels (S-77 steel reels available per SW reel policy)
- RoHS/Proposition 65 Compliant
- Available with top lobe identification marking per IEEE 1896-2016
- Stable and Reliable for Long Term use
- Buy America Compliant

SPECIFICATIONS:

- ASTM B47 Copper Trolley Wire
- EN 50149 Railway Applications. Fixed Installations. Electric Traction. Copper and Copper Alloy Grooved Contact Wires.

Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Cmil	Cond. Number	Approx. OD	Approx. Weight	DC Resistance @ 25°C	Rated Strength
	AWG/kcmil	cmil	No.	inch	lb/1000ft	Ω/1000ft	lb
665328	4/0	232324	1	0.482	641	0.05	7759

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

We've got it MADE IN AMERICA

Copyright © 2026 Southwire Company, LLC. All Rights Reserved