

Protected Ground Wire

Protected Copper Ground Wire. Black Polyethylene Covered.
Solid Soft Copper Conductor.



APPLICATION

The solid grounding wire is covered with a heavy wall thermoplastic material to enhance public safety by providing mechanical protection for the pole ground wire. Southwire Protected Ground Wire is designed to eliminate the need for additional protection such as conduit or oak molding. This product is also suitable for use as a covered overhead transformer lead wire/transformer bank buss wire.

SPECIFICATIONS

Southwire's Protected Ground Wire has been designed to meet the high levels of physical and electrical protection required by some state codes, and also meets or exceeds:

- ASTM B3- Soft or Annealed Copper Wire
 - Flexibility and easy training of the Protected Ground Wire is enhanced by the use of soft copper wire.
- Impact Requirements as Outlined in NEMA TC-2.
 - Withstands impact requirements for PVC Schedule 80 conduit without splitting.
- Typically Lightning Impulse Breakdown Well Above 1100 v/mil, Measured in Accordance with IEEE 82.
 - Impulse breakdown on undamaged cables typically exceeds 200kV. Similar values are obtained after bending in a 2" diameter circle. Even after impact testing, the impulse breakdown exceeds 100kV.

CONSTRUCTION

Conductors are solid soft drawn copper. The covering is UV resistant black linear low density polyethylene containing 2.5% carbon black expected to provide long sunlight resistance, typically exceeding 50-75 years.¹

¹ Gilroy, H.M. "Polyolefin Longevity for Telephone Service". ANTEC (1985).

Protected Ground Wire

Size (AWG)	Covering Thickness (mils)	Diameter (mils)		Weight Per 1000 Feet (lbs.)	Standard Coil (feet)
		Bare	Covered		
8	110	128.4	348.5	83	600
6	110	162.0	382.0	117	425
4	110	204.3	424.3	170	300