Romex® Brand SIMpull® Copper Type NM-B Cable

Nonmetallic-Sheathed Cable. 600 Volt. Copper Conductor. PVC Insulation/Nylon Sheath. PVC Jacket with SIMpull® Technology for Easier Pulling.

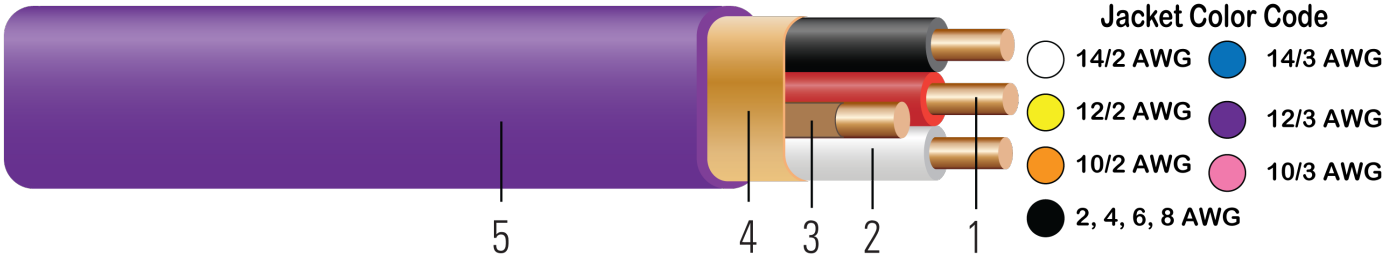


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Bare copper per ASTM B3. Sizes #14 AWG - #10 AWG are solid. Sizes #8 AWG - #2 AWG are Class B compressed stranded per ASTM B8
2. **Insulation:** All phases and neutral(s) are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath
   Color Code:
   2/C: Black, White
   3/C: Black, Red, White
   4/C: Black, Red, Blue, White
3. **Ground:** Solid soft drawn bare copper with kraft paper wrap
4. **Binder:** Kraft paper
5. **Jacket:** Polyvinyl Chloride (PVC) jacket utilizing SIMpull® Technology

APPLICATIONS AND FEATURES:

Southwire Romex® Brand SIMpull® (nonmetallic-sheathed) Cable may be used for both exposed and concealed work in dry locations with ampacity limited to that for 60°C conductors as specified in the National Electrical Code® (NEC). Individual conductor insulation is rated 90°C as required by the NEC and by the UL product standard (UL 719) for terminations in lighting fixtures. NM-B cable is primarily used in residential wiring as branch circuits for outlets, switches, and other loads. NM-B cable may be run in air voids of masonry block or tile walls where such walls are not wet or damp locations. Voltage rating for NM-B cable is 600 volts. Individual conductors within Type NM-B Cable are not listed or marked as THHN conductors (or any other NEC recognized conductor type) and are not permitted to be installed apart from the complete Type NM-B Cable. Conductors routed inside panelboards and boxes (without the cable jacket) for termination therein are considered part of the complete Type NM-B Cable.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 719 Nonmetallic-Sheathed Cables
- RoHS-2 (European Directive 2011/65/EU)
- Federal Specification A-A-59544
- NOM-063-SCFI Electrical Products – Conductors – Safety Requirements

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SAMPLE PRINT LEGEND:

E18679 (UL) ROMEX® SIMpull{TM} XX AWG (X.XXmm2) CU X CDR WITH XX AWG (mm2) GROUND TYPE NM-B 600 VOLTS NOM-ANCE PAT www.patentSW.com

Table 1 – Weights and Measurements

Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Insulation Color	Dia. Over Insulation	Ground	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
AWG/ Kcmil		No. of Strands	inch	mil		inch	No. x AWG	mil	inch	lb/1000ft	lb/1000ft	
12	4	SOLID	0.081	16	BK, WE, RD, BE	0.111	1 x 12	30	0.396	100	138	YW

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
***** 2x2 construction

Table 2 – Electrical and Engineering Data

Cond. Size	Cond. Number	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 60°C	Allowable Ampacity At 90°C
AWG/ Kcmil		inch	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
12	4	1.6	1.662	2.063	0.054	20	24

***** Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.
***** Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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