



Romex® Brand Copper SIMpull® Indoor NM-B Cable 3 Conductors

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



#12 AWG  #14 AWG 
 #10 AWG 

5 4 3 2 1

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid copper per ASTM B3
2. **Insulation:** All phases and neutral(s) are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath
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® NM-B (nonmetallic-sheathed) cable may be used for both exposed and concealed work in dry locations as specified in the National Electrical Code®. 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.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- UL 719 Nonmetallic-Sheathed Cables
- Federal Specification A-A-59544
- NOM-063-SCFI Electrical Products – Conductors – Safety Requirements

SAMPLE PRINT LEGEND:

E18679 (UL) ROMEX(R) SIMpull(TM) XX AWG (X.XXmm²) CU 3 CDR WITH XX AWG (X.XXmm²) GROUND TYPE NM-B 600 VOLTS NOM-ANCE





Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Ground	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil		No. of Strands	inch	mil	No. x AWG	mil	inch	lb/1000ft	lb/1000ft
639469◇	14	3	Solid	0.064	20	1 x 14	30	0.478 X 0.176	49	81
639478◇	12	3	Solid	0.080	20	1 x 12	30	0.424 X 0.188	79	115
639485◇	10	3	Solid	0.101	25	1 x 12	30	0.630 X 0.220	122	168

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz
	AWG/ Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft
639469◇	14	3	0.7	98	2.631	3.170	0.058
639478◇	12	3	0.8	156	1.662	2.002	0.054
639485◇	10	3	0.9	249	1.040	1.253	0.050

* 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.

