



Romex[®] Brand SIMpull[®] Copper Type NM-B-PCS DUO™ Cable

Nonmetallic-Sheathed Cable with both Power Conductors and Control/Signal Conductors. 600 Volts. Copper Conductors. PVC Insulation/Nylon Sheath. Color-Coded PVC Jacket with SIMpull[®] Technology for Easier Pulling.

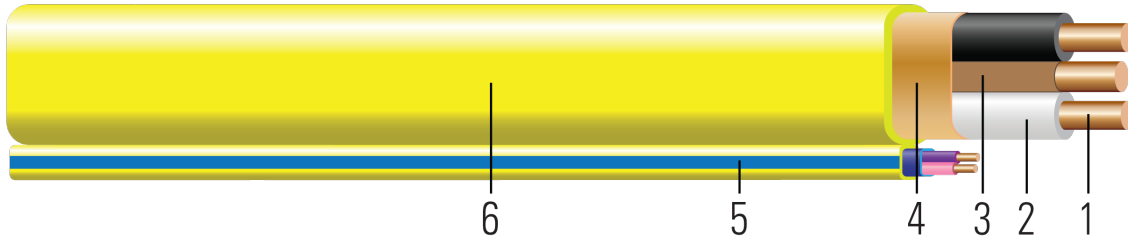


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Solid copper per ASTM B3
- Insulation:** All phases and neutral are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath
- Ground:** Solid soft drawn bare copper with kraft paper wrap
- Binder:** Kraft paper
- Control/Signal Conductors:** 16 AWG Copper TFN Insulated Singles Colored Pink, Purple. Overall light blue jacket over the signal conductors
- Jacket:** Polyvinyl Chloride (PVC) jacket utilizing SIMpull[®] Technology.
Color Code: White 14 AWG, Yellow 12 AWG, Orange 10 AWG. Blue stripe over control/signal component

APPLICATIONS AND FEATURES:

Southwire Romex[®] Brand SIMpull[®] Type NM-B-PCS DUO™ cable nonmetallic-sheathed cable may be used for both exposed and concealed work in dry locations as specified in the National Electrical Code. NM-B-PCS cable is primarily used in residential wiring for SMART home applications such as 0-10V DC dimming controls for LED lighting. NM-B-PCS 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-PCS cable is 600 volts. All conductors are rated 600 volts. Complies with the Class 2/Class 3 circuit separation requirements of NEC 725.136(I)(1) and 725.136(I)(2)."

CAUTION: Do not use the control/signal component to make connections to 120V AC line voltage.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- UL 719 Nonmetallic-Sheathed Cables
- RoHS-2 (European Directive 2011/65/EU)
- Federal Specification A-A-59544





SAMPLE PRINT LEGEND:

E18679 (UL) ROMEX® SIMpull{TM} XX AWG CU X CDR WITH XX AWG GROUND TYPE NM-B-PCS 600 VOLTS - PATENT PENDING

Signal/Control

CONDUCTORS UNDER THIS JACKET ARE ONLY FOR SIGNAL/CONTROL CONNECTIONS, NOT FOR CIRCUIT POWER

Table 1 – Weights and Measurements

| 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 |
| 12 | 3 | Solid | 0.080 | 20 | 1 x 12 | 28 | 0.213x0.806 | 94 | 163 |

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

| Cond. Size | Cond. Number | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|---------------|--------------|--------------------|------------------|----------------------|----------------------|----------------------------|----------------------------|----------------------------|
| AWG/ Kcmil | | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp | Amp |
| 12 | 3 | 3.2 | 156 | 1.662 | 2.002 | 0.054 | 25 | 30 |

Ampacities based upon 2023 NEC Table 310.16. Also, see NEC sections 310.15 for additional requirements.

