# 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.

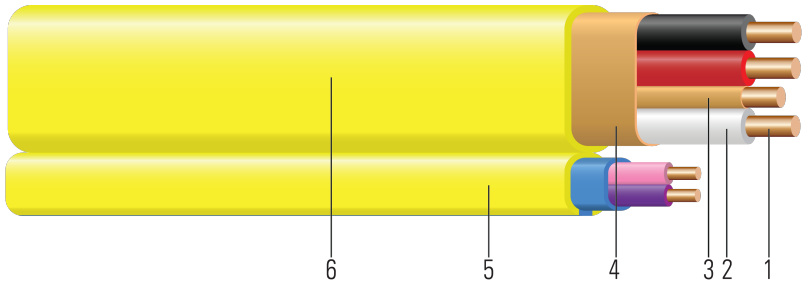


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Solid copper per ASTM B3
2. **Insulation:** All phases and neutral 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. **Control/Signal Conductors:** 16 AWG Copper TFN Insulated Singles Colored Pink, Purple. Overall light blue jacket over the signal conductors
6. **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 note 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


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## 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

| Stock Number | Cond. Size | Cond. Number | Strand Count | Diameter Over Conductor | Insul. Thickness | Dia. Over Insulation | Ground | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | | No. of Strands | inch | mil | inch | No. x AWG | mil | inch | lb/1000ft | lb/1000ft |
| 678071 | 14 | 2 | SOLID | 0.064 | 16 | 0.094 | 1 x 14 | 25 | 0.213x0.637 | 53 | 110 |
| 679628 | 12 | 2 | SOLID | 0.081 | 16 | 0.111 | 1 x 12 | 25 | 0.213x0.687 | 75 | 134 |
| 679630 | 10 | 2 | SOLID | 0.102 | 21 | 0.142 | 1 x 10 | 25 | 0.213x0.767 | 108 | 170 |
| 679629 | 12 | 3 | SOLID | 0.081 | 16 | 0.111 | 1 x 12 | 25 | 0.213x0.806 | 95 | 165 |

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.

## Table 2 – Electrical and Engineering Data

| Stock Number | 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 |
| 678071 | 14 | 2 | 2.5 | 2.631 | 3.265 | 0.058 | 15 | 25 |
| 679628 | 12 | 2 | 2.7 | 1.662 | 2.063 | 0.054 | 20 | 30 |
| 679630 | 10 | 2 | 3.1 | 1.04 | 1.291 | 0.05 | 30 | 40 |
| 679629 | 12 | 3 | 3.2 | 1.662 | 2.063 | 0.054 | 20 | 30 |

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



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