

NMD90 Copper SIMpull® Romex® Brand

300 Volts / -25°C Min, 90°C Max. Copper Conductors

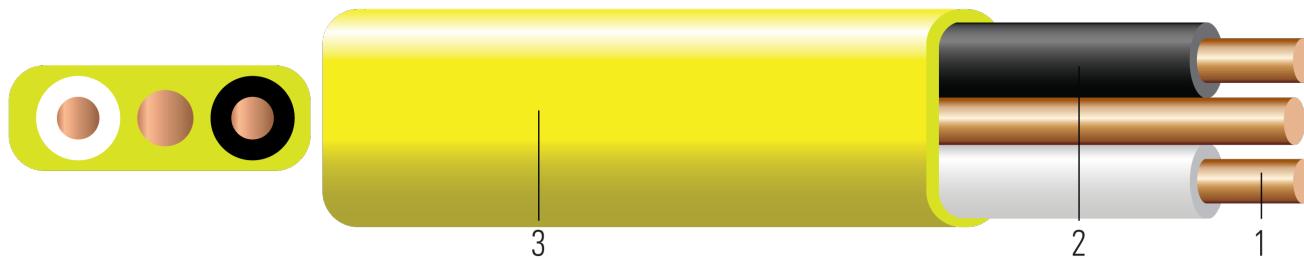


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 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
- Insulation:** All phases are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath
- Jacket:** Polyvinyl Chloride (PVC) jacket utilizing SIMpull® Technology.

Conductor Color Color Code:

- 2/C: Black, White
- 3/C: Black, White, Red

Jacket Color Color Code:

- White: General Residential Wiring
- Red: 2 Black and Red conductors - 208V-240V Circuits (no neutral)
- Orange: No. 10 AWG General Residential Wiring
- Yellow: No. 12 AWG General Residential Wiring
- Blue: No. 14 AWG - 2 black and white conductors - 120V Arc Fault Circuit Interupter Applications

APPLICATIONS AND FEATURES:

Southwire's Romex® SIMpull® NMD90 cables may be used for both exposed work in dry locations or concealed work in dry or damp locations.

The maximum allowable conductor temperature is 90°C. The minimum recommended installation temperature is -25°C for two-conductor cables and -10°C for three-conductor cables (with suitable handling procedures). Material should be properly stored above 0°C for 24 hours prior to installation. The maximum voltage rating for all intended applications is 300 volts. Consult the Canadian Electrical Code for further information related to applications.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 48 non-metallic sheathed cable
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- FT1 Flame Test (1,706 BTU/Hr nominal - Vertical Wire Flame Test)



**SAMPLE PRINT LEGEND:**

SOUTHWIRE CSA LL90458 12 AWG 2 CDRS BLACK/WHITE NMD90 NYLON ROMEX(R) BRAND SIMpull (TM) (-25C) 300 VOLTS FT1 COVERED & MADE UNDER U.S. PAT. NOS 7557301 & 7411129. [Jacket Colour is yellow]



Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insul. Thickness | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance | Min Bending Radius | Allowable Ampacity 75°C | Allowable Ampacity 90°C | Jacket Color |
|--------------|------------|--------------|---------------|---------------------|------------------|------------------|------------|---------------|----------------|----------------------|----------------------|---------------------|--------------------|-------------------------|-------------------------|--------------|
| | AWG | No. | strands | inch | mil | mil | inch | lb / 1000ft | lb / 1000ft | Ω /1000ft | Ω /1000ft | Ω/1000ft | inch | Amp | Amp | |
| 8 AWG | | | | | | | | | | | | | | | | |
| 471821◊ | 8 | 3 | 7 | 0.141 | 40 | 45 | 0.635 | 186 | 283 | 0.653 | 0.786 | 0.052 | 2.500 | 50 | 55 | WE |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

