# NMD90 Copper SIMpull® Romex® Brand 300 Volts / -25°C Min, 90°C Max. Copper Conductors

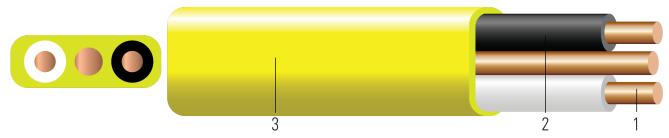


Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 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 are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath
- 3. **Jacket:** Polyvinyl Chloride (PVC) jacket utilizing SIMpull<sup>®</sup> Technology.

## **Conductor 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<sup>®</sup> SIMpull<sup>®</sup> 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

Stoc Numb	k Co per Si	ond. 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 Rectance	Min Bending Radius	Allowable Ampacity 75°C	Allowable Ampacity 90°C	Jacket Color
	A۱	WG	No.	strands	inch	mil	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp	
55788	32♦ :	3	2	7	0.252	50	80	0.937	410	610	0.205	0.246	0.047	3.700	100	115	RD

All dimensions are nominal and subject to normal manufacturing tolerances





<sup>♦</sup> Cable marked with this symbol is a standard stock item