# NMD90 Aluminum SIMpull<sup>®</sup> Romex<sup>®</sup> Brand

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

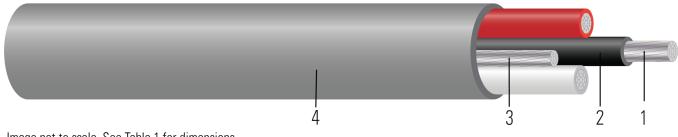


Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- Conductor: Compact stranded 8000 series aluminum per ASTM B800 and ASTM B801 or ASTM B836
- 2. Insulation: All phases are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath. Colors: Black, Red, White
- 3. **Ground:** Compact stranded 8000 series aluminum per ASTM B800 and ASTM B801 or ASTM B836
- 4. **Jacket:** Polyvinyl Chloride (PVC) jacket utilizing SIMpull® Technology.

#### **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 B800 8000 Series Aluminum Alloy Wire
- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- ASTM B836 Compact Rounded Stranded Aluminum 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:**

LL90458 MASTER-DESIGN CSA XX AWG 8000AL. --- TRIPLE E ALLOY AA8176 3 CDRS NMD90 NYLON ROMEX{R} BRAND SIMpull{TM} 300 VOLTS FT1 PAT www.patentSW.com

## **Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Jacket Thickness	Approx. OD	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	mil	inch	lbs/1000ft
562387◊	6	3	0.169	7	50	1 x 8	45	0.753	219

All dimensions are nominal and subject to normal manufacturing tolerances





- ♦ Cable marked with this symbol is a standard stock item
- \* Strand count meets minimum number per ASTM

## Table 2 – Electrical and Engineering Data

Cond. Size	Conductor Number	Min. Bend Radius	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C	
AWG/ Kcmil		Inches	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	
6	3	3.000	0.674	0.812	0.051	50	55	

<sup>\*</sup> Ampacity values based on Canadian Electrical Code, Part 1 2024 Table 4. See also CEC Rules 4-004 and 4-006 for additional requirements.



<sup>\*</sup> Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.