# NMD90 Aluminum SIMpull® Romex® Brand

300 Volts / -25ºC Min, 90ºC Max. Aluminum Conductors

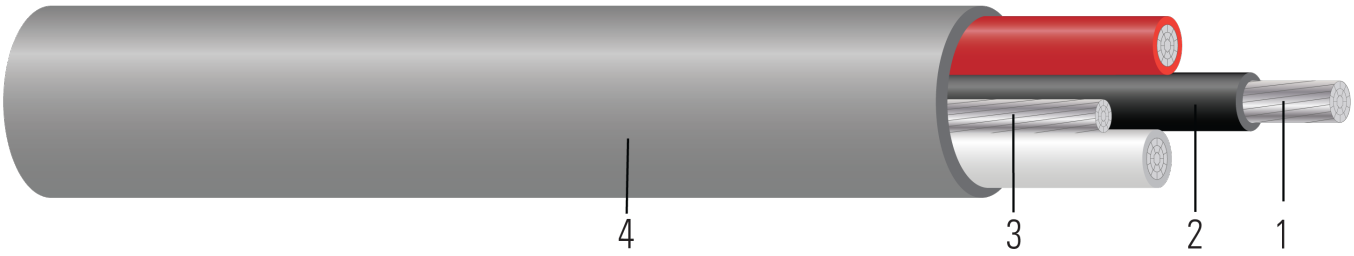


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **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® 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 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 |
| 562388◊ | 2 | 3 | 0.268 | 6 | 50 | 1 x 6 | 80 | 1.067 | 468 |

All dimensions are nominal and subject to normal manufacturing tolerances



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◊ 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 |
| 2 | 3 | 5.300 | 0.267 | 0.321 | 0.045 | 90 | 100 |

* Ampacity values based on Canadian Electrical Code, Part 1 2024 Table 4. See also CEC Rules 4-004 and 4-006 for additional requirements.
* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.


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