NMD90 Copper SIMpull® Romex® Brand

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

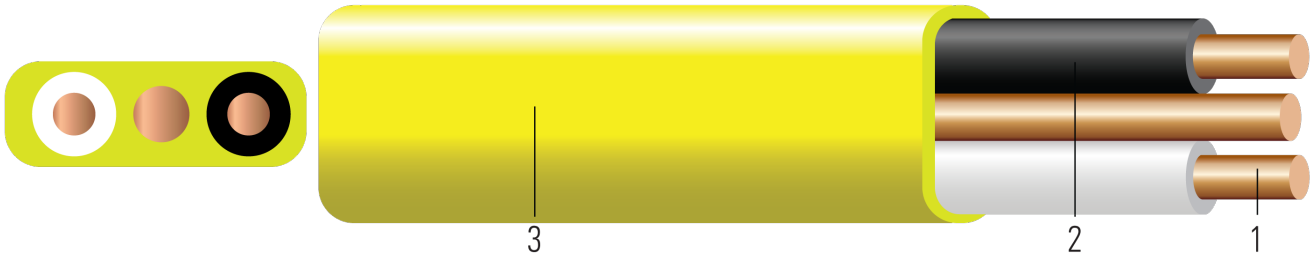


Image not to scale. See Table 1 for dimensions.

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® 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)

Copyright © 2026 Southwire Company, LLC. All Rights Reserved
UPDATED: Aug. 10, 2025, noonUTC REVISION: 1.000.013

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]

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Ground	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	Allow Ampa 90°
	AWG	No.	strands	inch	mil	No. x AWG	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Am
14 AWG																
471748◊	14	2	SOLID	0.064	35	1 x 14	30	0.196x0.396	37	69	2.631	3.265	0.058	1.5	20	25
672477◊	14	2	SOLID	0.064	35	1 x 14	30	0.196x0.396	37	69	2.631	3.265	0.058	1.5	20	25
551373◊	14	2	SOLID	0.064	35	1 x 14	30	0.196x0.396	37	69	2.631	3.265	0.058	1.5	20	25
471797◊	14	3	SOLID	0.064	35	1 x 14	30	0.389	50	91	2.631	3.265	0.058	1.6	20	25
12 AWG																
471755◊	12	2	SOLID	0.08	35	1 x 14	30	0.213x0.430	52	88	1.662	2.063	0.054	1.6	25	30
472308◊	12	2	SOLID	0.08	35	1 x 14	30	0.213x0.430	52	88	1.662	2.063	0.054	1.6	25	30
471805◊	12	3	SOLID	0.08	35	1 x 14	30	0.429	72	118	1.662	2.063	0.054	1.7	25	30
10 AWG																
472316◊	10	2	SOLID	0.101	35	1 x 12	30	0.234x0.488	83	124	1.04	1.291	0.05	1.8	35	40
471763◊	10	2	SOLID	0.101	35	1 x 12	30	0.234x0.488	83	124	1.04	1.291	0.05	1.8	35	40
471813◊	10	3	SOLID	0.101	35	1 x 12	30	0.48	115	168	1.04	1.291	0.05	1.9	35	40
8 AWG																
551038◊	8	2	7	0.141	40	1 x 10	45	0.316x0.694	133	211	0.653	0.81	0.052	2.3	50	55
471821◊	8	3	7	0.141	40	1 x 10	45	0.636	186	284	0.653	0.81	0.052	2.5	50	55
6 AWG																
557881◊	6	2	7	0.177	50	1 x 8	45	0.374x0.800	213	340	0.411	0.51	0.051	2.7	65	75
471839◊	6	3	7	0.177	50	1 x 8	45	0.776	297	433	0.411	0.51	0.051	3.1	65	75
4 AWG																
557727◊	4	2	7	0.225	50	1 x 8	60	0.839	312	463	0.258	0.32	0.048	3.4	85	95
557882◊	3	2	7	0.252	50	1 x 6	80	0.938	410	603	0.205	0.254	0.047	3.8	100	11
676254◊	3	3	7	0.252	50	1 x 6	80	1.029	574	812	0.205	0.254	0.047	5.1	100	11
2 AWG																
557880◊	2	3	7	0.282	50	1 x 6	80	0.992	703	862	0.162	0.201	0.045	4	115	13

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

Copyright © 2026 Southwire Company, LLC. All Rights Reserved