



NMD90 Copper SIMpull® Romex® Brand

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

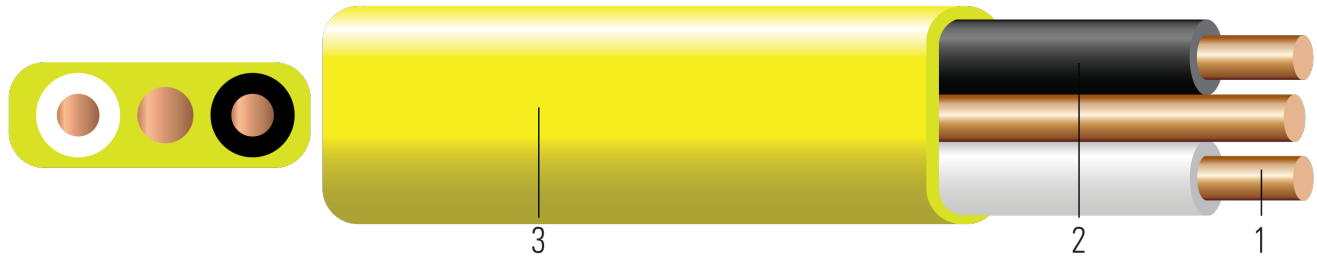


Image not to scale. See Table 1 for dimensions.

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® Technology.

Conductor Color Code:

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

Jacket 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 Interrupter 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	
14 AWG																
471748◇	14	2	Solid	0.064	35	30	0.196x0.396	37	69	2.631	3.170	0.058	1.600	20	25	V
672477◇	14	2	Solid	0.064	35	30	0.196x0.396	37	69	2.631	3.170	0.058	1.600	20	25	P
551373◇	14	2	Solid	0.064	35	30	0.196x0.396	37	69	2.631	3.170	0.058	1.600	20	25	E
471797◇	14	3	Solid	0.064	35	30	0.388	50	90	2.631	3.170	0.058	1.500	20	25	V
12 AWG																
471755◇	12	2	Solid	0.080	35	30	0.213x0.430	51	88	1.662	2.002	0.054	1.600	25	30	Y
472308◇	12	2	Solid	0.080	35	30	0.213x0.430	51	88	1.662	2.002	0.054	1.600	25	30	P
471805◇	12	3	Solid	0.080	35	30	0.428	72	118	1.662	2.002	0.054	1.700	25	30	Y
10 AWG																
472316◇	10	2	Solid	0.101	35	30	0.234x0.488	82	124	1.040	1.253	0.050	2.000	35	40	P
471763◇	10	2	Solid	0.101	35	30	0.234x0.488	82	124	1.040	1.253	0.050	2.000	35	40	C
471813◇	10	3	Solid	0.101	35	30	0.479	115	168	1.040	1.253	0.050	1.900	35	40	C
8 AWG																
551038◇	8	2	7	0.141	40	45	0.316x0.694	133	210	0.653	0.786	0.052	2.800	50	55	P
471821◇	8	3	7	0.141	40	45	0.635	186	283	0.653	0.786	0.052	2.500	50	55	V
6 AWG																
557881◇	6	2	7	0.177	50	45	0.374x0.800	213	339	0.411	0.495	0.051	3.200	65	75	P
471839◇	6	3	7	0.177	50	45	0.775	297	433	0.411	0.495	0.051	3.100	65	75	V
4 AWG																
557727◇	4	2	7	0.225	50	60	0.839	311	463	0.258	0.310	0.048	3.300	85	95	P
557882◇	3	2	7	0.252	50	80	0.937	410	610	0.205	0.246	0.047	3.700	100	115	P
676254◇	3	3	7	0.252	50	80	1.029	574	822	0.205	0.246	0.047	5.100	100	115	V
2 AWG																
557880◇	2	3	7	0.282	50	80	0.991	702	862	0.162	0.195	0.045	3.900	115	130	P

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

