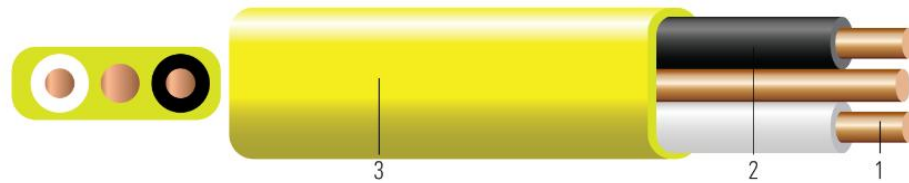


NMD90 300V – Copper Conductors



APPLICATION

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

CHARACTERISTICS

Voltage Rating U_0/U (Um)

300V

Temperature Rating

-25°C to 90°C

STANDARDS

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)

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

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

Insulation

All phases are insulated with Polyvinyl Chloride (PVC) with Nylon Sheath

Jacket:

Polyvinyl Chloride (PVC) jacket

Sheath Colour

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

Weights and Measurements

Cond. Size AWG/ Kcmil	Conductor Number	Diameter Over Conductor (inch)	Conductor Stranding	Thickness Insulation (mils)	Ground Size (No.xAWG)	Thickness Jacket (mil)	Approx. OD (inch)	Weight (lbs/1000ft)	Copper Weight Overall (lbs/1000ft)
14	2	0.064	Solid	35	1x14	30	0.196x0.396	37	69
14	2	0.064	Solid	35	1x14	30	0.196x0.396	37	69
14	2	0.064	Solid	35	1x14	30	0.196x0.396	37	69
14	3	0.064	Solid	35	1x14	30	0.388	50	90
12	2	0.08	Solid	35	1x14	30	0.213x0.430	51	88
12	2	0.08	Solid	35	1x14	30	0.213x0.430	51	88
12	3	0.08	Solid	35	1x14	30	0.428	72	118
10	2	0.101	Solid	35	1x12	30	0.234x0.488	82	124
10	2	0.101	Solid	35	1x12	30	0.234x0.488	82	124
10	3	0.101	Solid	35	1x12	30	0.479	115	168
8	2	0.141	7	40	1x10	45	0.316x0.694	133	210
8	3	0.141	7	40	1x10	45	0.635	186	283
6	2	0.177	7	50	1x8	45	0.374x0.800	213	339
6	3	0.177	7	50	1x8	45	0.775	297	433
4	2	0.225	7	50	1x8	60	0.839	311	463
3	2	0.252	7	50	1x6	80	0.937	410	610
3	3	0.252	7	50	1x6	80	1.029	574	822
2	3	0.282	7	50	1x6	80	0.991	702	862

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

Electrical and Engineering Data

Cond. Size AWG/ Kcmil	Conductor Number	Min. Bend Radius (Inches)	DC Resistance at 25°C (Ω /1000ft)	AC Resistance at 75°C (Ω /1000ft)	Inductive Reactance @ 60Hz (Ω /1000ft)	Allowable Ampacity Raceway 75°C (Amp)	Allowable Ampacity Raceway 90°C (Amp)
14	2	1.6	2.631	3.17	0.058	20	25
14	2	1.6	2.631	3.17	0.058	20	25
14	2	1.6	2.631	3.17	0.058	20	25
14	3	1.5	2.631	3.17	0.058	20	25
12	2	1.6	1.662	2.002	0.054	25	30
12	2	1.6	1.662	2.002	0.054	25	30
12	3	1.7	1.662	2.002	0.054	25	30
10	2	2	1.04	1.253	0.05	35	40
10	2	2	1.04	1.253	0.05	35	40
10	3	1.9	1.04	1.253	0.05	35	40
8	2	2.8	0.653	0.786	0.052	50	55
8	3	2.5	0.653	0.786	0.052	50	55
6	2	3.2	0.411	0.495	0.051	65	75
6	3	3.1	0.411	0.495	0.051	65	75
4	2	3.3	0.258	0.31	0.048	85	95
3	2	3.7	0.205	0.246	0.047	100	115
3	3	5.1	0.205	0.246	0.047	100	115
2	3	3.9	0.162	0.195	0.045	115	130

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

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