

Non-metallic sheathed cable (NMD90)



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 Code¹ for further information related to applications.

Construction

Conductor: Solid or stranded bare copper

Insulation: Flame-retardant Polyvinyl Chloride (PVC) c/w Nylon sheath insulation

Ground (Bonding) Conductor: Bare solid or stranded copper bonding wire

Outer Jacket: Flame-retardant and moisture resistant Polyvinyl Chloride (PVC)

Technical Data

Rating Voltage	300V.
Temperature Range	-25~+90°C
Flame Test	FT1.
Standard	CSA C22.2 No. 48 (non-metallic sheathed cable) Canadian Electrical Code 1.

No. of conductor	Conductor Size (AWG)	Bonding (AWG)	Insulation Thickness (mm)	Approximate Diameter (mm)	Weight (kg/km)
2	14	14	0.76	5.2*10.4	107
2	12	14	0.76	5.3*11.3	136
2	10	12	0.76	5.8*11.9	178
2	8	10	0.89	8.4*17.0	295
2	6	8	1.14	9.6*20.5	335
3	14	14	0.76	9.1	139
3	12	14	0.76	9.6	170
3	10	12	0.76	11.5	261
3	8	10	0.89	15.5	445
3	6	8	1.14	19.3	697
3	4	6	1.14	23.9	1165
3	2	6	1.14	25.5	1385