

## NMD90 CANADEx® 300 Volts 90°C

NMD90 CANADEx® AI 300 Volts 90°C

Nexans ref.: Aluminum/Aluminium

### Description

CSA File #LL23462 Class 5821 02

Three ACM aluminum conductors, with 90°C PVC Nylon T90 Nylon insulation. Bare bonding wire an overall jacket of moisture resistant and flame retardant PVC, with FT1 rating.

Rated 300 volts. RoHS compliant.



### Standards

National CSA C22.2 N° 48

### Application

For open or concealed wiring in dry or damp locations where not exposed to mechanical injury.

Minimum recommended handling temperature minus 10°C for 3 conductor cables (with suitable handling procedures).

Maximum conductor temperature 90°C.

### Characteristics

#### Construction characteristics

Conductor material Aluminum

#### Electrical characteristics

Maximum operating voltage 300 V

#### Usage characteristics

Maximum operating temperature 90 °C

Size AWG	Number of Conductors	Bonding Wire Size AWG (Aluminum)	Insulation Thickness		Nylon Thickness		Jacket Thickness		Approximate Overall Dimensions		Approximate Net Cable Weight		Ampacity 30°C Ambient
			mm	in	mm	in	mm	in	mm	in	kg/km	lbs/kft	A
8 (7)	3	10 (1)	0.89	0.035	0.12	0.005	1.14	0.045	13.7	0.54	192	129	30
6 (7)	3	8 (7)	1.14	0.045	0.15	0.006	1.14	0.045	16.6	0.65	285	192	55
4 (7)	3	6 (7)	1.14	0.045	0.15	0.006	1.52	0.060	19.8	0.78	418	281	65
2 (7)	3	6 (7)	1.14	0.045	0.15	0.006	2.03	0.080	23.5	0.93	606	407	95

### Selling information

Jacket Colours: Grey

Insulation Colours: Black, Red, White

**Contact**

 Residential/Commercial/Industrial  
 Phone: 905-944-4300  
 buildingwire.canada@nexans.com

## NMD90 HEATEX® 300 Volts 90°C

### Description

CSA File #LL23462 Class 5821 02

NMD90 (Red) HEATEX® is a variant of copper conductor NMD90 CANADEx®, with NO WHITE WIRE in the 2 conductor cable. This cable is designed for use on 240-volt systems where there is no NEUTRAL, therefore the cable has a black and a red conductor in addition to the bare bonding wire. To make identification easier it is usually supplied with a RED overall jacket. It should NOT be used on 120 volt systems as there is no neutral, and it is dangerous to use either the red or the black as a neutral. Large sizes are available for use with electric furnaces.



### Application

For open or concealed wiring in dry or damp locations where not exposed to mechanical injury.

Minimum recommended handling temperature minus 25°C (with suitable handling procedures).

Maximum conductor temperature 90°C.

Specifically designed for 240 V heating circuits.

### Standards

**National CSA C22.2 N° 48**

### Characteristics

#### Construction characteristics

 Conductor material Copper

#### Electrical characteristics

 Maximum operating voltage 300 V

#### Usage characteristics

 Maximum operating temperature 90 °C

Size AWG	Number of Conductors	Bonding Wire Size AWG (Copper)	Insulation Thickness		Nylon Thickness		Jacket Thickness		Approximate Overall Dimensions		Approximate Net Cable Weight		Ampacity 30°C Ambient A
			mm	in	mm	in	mm	in	mm	in	kg/km	lbs/kft	
14 (1)	2	14 (1)	0.76	0.030	0.10	0.004	0.76	0.030	4.9 x 9.9	0.19 x 0.39	99	67	15
12 (1)	2	14 (1)	0.76	0.030	0.10	0.004	0.76	0.030	5.3 x 10.7	0.21 x 0.42	127	85	20
10 (1)	2	12 (1)	0.76	0.030	0.10	0.004	0.76	0.030	5.9 x 12.2	0.23 x 0.48	181	122	30
8 (7)	2	10 (1)	0.89	0.035	0.12	0.005	1.14	0.045	7.7 x 15.9	0.3 x 0.63	299	201	45
6 (7)	2	8 (7)	1.14	0.045	0.15	0.006	1.14	0.045	9.0 x 19.5	0.35 x 0.77	453	304	65
4 (7)	2	8 (7)	1.14	0.045	0.15	0.006	1.52	0.060	19.0	0.75	638	429	85
3 (7)	2	6 (7)	1.14	0.045	0.15	0.006	2.03	0.080	21.3	0.84	839	564	105
2 (7)	2	6 (7)	1.14	0.045	0.15	0.006	2.03	0.080	22.8	0.90	986	663	120

### Selling information

Note: Sizes 4 AWG and larger are twisted.

Jacket Colour: Red

Insulation Colours: Black, Red

**Contact**

 Residential/Commercial/Industrial  
 Phone: 905-944-4300  
 buildingwire.canada@nexans.com

## NMWU SUPERVEX 300 Volts 60°C

### Description

CSA File LL23462 Class 5821 02

Two or three copper conductors with extra thickness of 60°C PVC insulation. Bare bonding wire and an overall sunlight resistant PVC jacket. Rated 300 volts.



### Application

 For direct earth burial (with protection as required by the inspection authority).  
 For wiring exposed to the weather. For Category 1 and 2 locations see Section 22 of the Canadian Electrical Code including barns, stables, etc.  
 For open and concealed wiring in wet or dry locations where not exposed to mechanical injury.

Minimum recommended handling temperature minus 25°C (except for 3 conductor cables at minus 10°C) with suitable handling procedures.

Maximum conductor temperature 60°C.

### Standards

**National CSA C22.2 N° 48**

### Characteristics

#### Construction characteristics

 Conductor material Copper

#### Electrical characteristics

 Maximum operating voltage 300 V

#### Usage characteristics

 Maximum operating temperature 60 °C

Size AWG	Number of Conductors	Bonding Wire Size AWG (Copper)	Insulation Thickness		Jacket Thickness		Approx. Overall Dimensions		Approx. Net Cable Weight Copper Conductors		Ampacity (amps) 30°C Ambient
			mm	in	mm	in	mm	in	kg/km	lbs/kft	
14 (1)	2	14 (1)	1.52	0.060	0.76	0.030	6.3x12.7	0.25x0.50	142	95	15
12 (1)	2	14 (1)	1.52	0.060	0.76	0.030	6.8x13.6	0.27x0.53	173	117	20
10 (1)	2	12 (1)	1.52	0.060	0.76	0.030	7.3x15.1	0.29x0.59	234	157	30
8 (7)	2	10 (1)	1.91	0.075	1.14	0.045	9.9x20.0	0.39x0.79	402	270	40
6 (7)	2	10 (1)	2.29	0.090	1.14	0.045	11.6x23.5	0.46x0.92	565	379	55**
4 (7)	2	8 (7)	2.29	0.090	1.52	0.060	23.9	0.94	804	541	70
3 (7)	2	8 (7)	2.29	0.090	2.03	0.080	26.3	1.04	995	669	80
2 (7)	2	8 (7)	2.29	0.090	2.03	0.080	27.9	1.10	1157	778	100

**NOTE: 2/C cables sizes 4 AWG and larger and all 3/C cables are twisted**

14 (1)	3	14 (1)	1.52	0.060	0.76	0.030	11.9	0.47	181	122	15
12 (1)	3	14 (1)	1.52	0.060	0.76	0.030	12.8	0.50	227	152	20
10 (1)	3	12 (1)	1.52	0.060	0.76	0.030	13.9	0.55	306	205	30
8 (7)	3	10 (1)	1.91	0.075	1.14	0.045	18.6	0.73	523	351	40
6 (7)	3	10 (1)	2.29	0.090	1.14	0.045	22.3	0.88	752	505	55**
4 (7)	3	8 (7)	2.29	0.090	1.52	0.060	25.6	1.01	1098	738	70
3 (7)	3	8 (7)	2.29	0.090	2.03	0.080	28.1	1.11	1354	910	80
2 (7)	3	8 (7)	2.29	0.090	2.03	0.080	29.8	1.17	1591	1069	100