

MI Heating Cable

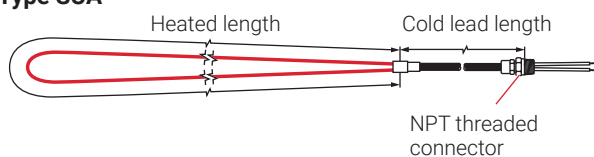
CONNECT AND PROTECT

LSZH jacketed, copper sheathed MI cable

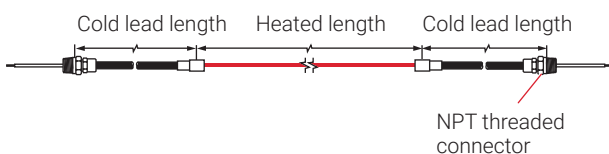
PRODUCT OVERVIEW

MI Heating Cable Configuration

Type SUA



Type SUB



The copper-sheathed, mineral insulated heating cables are covered with an extruded low-smoke zero-halogen (LSZH) jacket and are supplied as complete factory-assembled cables ready to connect to a junction box. The series-type technology, inherent to all mineral insulated heating cables, provides a reliable and consistent heat source that is ideal for embedded snow melting applications.

The copper sheath provides an ideal ground path and allows for a rugged yet flexible heating cable that is easy to install.

For additional information, contact your nVent representative or call (800) 545-6258.

CABLE CONSTRUCTION

Heating cable

Jacket	LSZH
Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Alloy or copper
Number of conductors	1
Insulation voltage rating	600 V
Cable diameter (with jacket)	0.218 to 0.313 in (5.5 to 8.0 mm)

Cold lead

Jacket	LSZH
Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Copper
Number of conductors	1 or 2
Insulation voltage rating	600 V
Cable diameter (with jacket)	0.320 to 0.430 in (8.1 to 10.9 mm)
Gland size (NPT)	1/2 in
Tail length	12 in (30 cm)

MINIMUM INSTALLATION TEMPERATURE

LSZH-jacketed heating cable
 -4°F (-20°C) for UL, -22°F (-30°C) for CSA

MINIMUM BENDING RADIUS

6 times cable diameter

SUA/SUB HEATING CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length		Nominal power (watts)	Cable voltage (volts)	Cold lead length ¹		Cold lead code	Joint type	Nominal cable diameter		Resis-tance ² (ohms)	Tail size (AWG)
			(ft)	(m)			(ft)	(m)			(in)	(mm)		
120 Volts														
SUA5	A	61RD3610-RD	40	12.2	550	120	7	2.1	R22A	Y	0.218	5.5	26.2	14
SUA9	A	61RD3200-RD	66	20.1	1100	120	7	2.1	R22A	Y	0.258	6.6	13.1	14
208 Volts														
SUA4	A	61RD3390-RD	68	20.7	1600	208	7	2.1	R22A	Y	0.222	5.6	27.0	14
SUA7	A	61RD3200-RD	95	29.0	2300	208	7	2.1	R22A	Y	0.258	6.6	18.8	14
SUB1	B	61RE3105-RD	132	40.2	3100	208	15	4.6	R25A	Y	0.264	6.7	14.0	14
SUB3	B	61RE4400-RD	280	85.3	3900	208	15	4.6	R30A	Y	0.275	7.0	11.2	12
SUB5	B	61RE4300-RD	260	79.2	5500	208	15	4.6	R40A	Y	0.282	7.2	7.9	10
SUB7	B	61RE4200-RD	310	94.5	7000	208	15	4.6	R40A	Y	0.295	7.5	6.2	10
SUB9	B	61RC5651-RD	630	192.0	9000	208	15	4.6	R60A	Y	0.284	7.2	4.7	8
SUB10	B	61RC5409-RD	717	218.5	13000	208	15	4.6	R80A	Y	0.313	8.0	3.4	6
SUB1402	B	61RD3610-RD	50	15.2	1400	208	15	4.6	R25A	Y	0.218	5.5	30.9	14
SUB1702	B	61RD3390-RD	64	19.5	1700	208	15	4.6	R25A	Y	0.222	5.6	25.4	14
SUB2002	B	61RD3300-RD	72	22.0	2000	208	15	4.6	R25A	Y	0.250	6.4	21.6	14
SUB2402	B	61RD3200-RD	90	27.4	2400	208	15	4.6	R25A	Y	0.258	6.6	18.0	14
SUB2802	B	61RE3150-RD	103	31.4	2800	208	15	4.6	R25A	Y	0.238	6.0	15.5	14
SUB3402	B	61RE3105-RD	121	36.9	3400	208	15	4.6	R25A	Y	0.264	6.7	12.7	14
SUB3902	B	61RE4800-RD	139	42.4	3900	208	15	4.6	R25A	Y	0.272	6.9	11.1	14
SUB4502	B	61RE4600-RD	160	48.8	4500	208	15	4.6	R25A	Y	0.284	7.2	9.6	14
SUB5502	B	61RE4400-RD	197	60.1	5500	208	15	4.6	R30A	Y	0.275	7.0	7.9	12
SUB6402	B	61RE4300-RD	226	68.9	6400	208	15	4.6	R40A	Y	0.282	7.2	6.8	10
SUB7802	B	61RE4200-RD	277	84.5	7800	208	15	4.6	R40A	Y	0.295	7.5	5.5	10
SUB10302	B	61RC4100-RD	368	112.2	10300	208	15	4.6	R60A	Y	0.288	7.3	4.2	8
SUB12802	B	61RC5651-RD	455	138.7	12800	208	15	4.6	R80A	Y	0.284	7.2	3.4	6
SUB16102	B	61RC5409-RD	576	175.6	16100	208	15	4.6	R80A	Y	0.313	8.0	2.7	6
240 Volts														
SUA3	A	61RD3200-RD	140	42.7	2000	240	7	2.1	R22A	Y	0.258	6.6	28.0	14
SUA8	A	61RE3105-RD	177	53.9	3200	240	7	2.1	R22A	Y	0.264	6.7	18.0	14
SUB2	B	61RE4600-RD	240	73.1	4000	240	15	4.6	R25A	Y	0.284	7.2	14.5	14
SUB3	B	61RE4400-RD	280	85.3	5200	240	15	4.6	R30A	Y	0.275	7.0	11.2	12
SUB4	B	61RE4300-RD	320	97.5	6000	240	15	4.6	R30A	Y	0.282	7.2	9.6	12
SUB5	B	61RE4300-RD	260	79.2	7350	240	15	4.6	R40A	Y	0.282	7.2	7.9	10
SUB6	B	61RE4200-RD	375	114.3	7500	240	15	4.6	R40A	Y	0.295	7.5	7.5	10
SUB7	B	61RE4200-RD	310	94.5	9250	240	15	4.6	R40A	Y	0.295	7.5	6.2	10
SUB8	B	61RC4100-RD	550	167.6	9000	240	15	4.6	R60A	Y	0.288	7.3	6.4	8
SUB9	B	61RC5651-RD	630	192.0	12000	240	15	4.6	R60A	Y	0.284	7.2	4.7	8
SUB10	B	61RC5409-RD	717	218.5	17000	240	15	4.6	R80A	Y	0.313	8.0	3.4	6
SUB1604	B	61RD3610-RD	59	18.0	1600	240	15	4.6	R25A	Y	0.218	5.5	36.0	14
SUB2004	B	61RD3390-RD	74	22.6	2000	240	15	4.6	R25A	Y	0.222	5.6	28.8	14
SUB2304	B	61RD3300-RD	84	25.6	2300	240	15	4.6	R25A	Y	0.250	6.4	25.0	14
SUB2804	B	61RD3200-RD	103	31.4	2800	240	15	4.6	R25A	Y	0.258	6.6	20.6	14
SUB3204	B	61RE3150-RD	120	36.6	3200	240	15	4.6	R25A	Y	0.238	6.0	18.0	14

¹To modify cold lead length, contact your nVent sales representative.

²Resistance tolerance: +/- 10%

Tolerance on heating cable length: -0% to +3%

SUA/SUB HEATING CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length		Nominal power (watts)	Cable voltage (volts)	Cold lead length ¹		Cold lead code	Joint type	Nominal cable diameter		Resis-tance ² (ohms)	Tail size (AWG)
			(ft)	(m)			(ft)	(m)			(in)	(mm)		
240 Volts, cont.														
SUB3904	B	61RE3105-RD	140	42.7	3900	240	15	4.6	R25A	Y	0.264	6.7	14.8	14
SUB4504	B	61RE4800-RD	160	48.8	4500	240	15	4.6	R25A	Y	0.272	6.9	12.8	14
SUB5204	B	61RE4600-RD	185	56.4	5200	240	15	4.6	R25A	Y	0.284	7.2	11.1	14
SUB6404	B	61RE4400-RD	225	68.6	6400	240	15	4.6	R30A	Y	0.275	7.0	9.0	12
SUB7304	B	61RE4300-RD	263	80.2	7300	240	15	4.6	R40A	Y	0.282	7.2	7.9	10
SUB9004	B	61RE4200-RD	320	97.6	9000	240	15	4.6	R40A	Y	0.295	7.5	6.4	10
SUB11904	B	61RC4100-RD	426	129.9	11900	240	15	4.6	R60A	Y	0.288	7.3	4.8	8
SUB14704	B	61RC5651-RD	528	161.0	14700	240	15	4.6	R80A	Y	0.284	7.2	3.9	6
SUB18604	B	61RC5409-RD	664	202.4	18600	240	15	4.6	R80A	Y	0.313	8.0	3.1	6
277 Volts and 480 Volts, 3-phase Wye														
SUA3	A	61RD3200-RD	140	42.7	2740	277	7	2.1	R22A	Y	0.258	6.6	28.0	14
SUA8	A	61RE3105-RD	177	53.9	4100	277	7	2.1	R22A	Y	0.264	6.7	18.7	14
SUB2	B	61RE4600-RD	240	73.1	5300	277	15	4.6	R25A	Y	0.284	7.2	14.5	14
SUB3	B	61RE4400-RD	280	85.3	6850	277	15	4.6	R30A	Y	0.275	7.0	11.2	12
SUB4	B	61RE4300-RD	320	97.5	8000	277	15	4.6	R30A	Y	0.282	7.2	9.6	12
SUB6	B	61RE4200-RD	375	114.3	10200	277	15	4.6	R40A	Y	0.295	7.5	7.5	10
SUB8	B	61RC4100-RD	550	167.6	12200	277	15	4.6	R60A	Y	0.288	7.3	6.4	8
SUB9	B	61RC5651-RD	630	192.0	16400	277	15	4.6	R60A	Y	0.284	7.2	4.7	8
SUB15	B	61RE4800-RD	225	68.6	4250	277	15	4.6	R25A	Y	0.272	6.9	18.1	14
SUB16	B	61RE4400-RD	310	94.5	6180	277	15	4.6	R25A	Y	0.275	7.0	12.4	14
SUB17	B	61RE4200-RD	440	134.1	8700	277	15	4.6	R40A	Y	0.295	7.5	8.8	10
SUB18	B	61RC4100-RD	560	170.7	12000	277	15	4.6	R60A	Y	0.288	7.3	6.4	8
SUB1807	B	61RD3610-RD	70	21.3	1800	277	15	4.6	R25A	Y	0.218	5.5	42.6	14
SUB2307	B	61RD3390-RD	85	25.9	2300	277	15	4.6	R25A	Y	0.222	5.6	33.4	14
SUB2707	B	61RD3300-RD	95	29.0	2700	277	15	4.6	R25A	Y	0.250	6.4	28.4	14
SUB3207	B	61RD3200-RD	119	36.3	3200	277	15	4.6	R25A	Y	0.258	6.6	24.0	14
SUB3807	B	61RE3150-RD	135	41.2	3800	277	15	4.6	R25A	Y	0.238	6.0	20.2	14
SUB4507	B	61RE3105-RD	162	49.4	4500	277	15	4.6	R25A	Y	0.264	6.7	17.1	14
SUB5207	B	61RE4800-RD	184	56.1	5200	277	15	4.6	R25A	Y	0.272	6.9	14.8	14
SUB6007	B	61RE4600-RD	213	64.9	6000	277	15	4.6	R25A	Y	0.284	7.2	12.8	14
SUB7307	B	61RE4400-RD	262	79.9	7300	277	15	4.6	R30A	Y	0.275	7.0	10.5	12
SUB8507	B	61RE4300-RD	300	91.5	8500	277	15	4.6	R40A	Y	0.282	7.2	9.0	10
SUB10307	B	61RE4200-RD	372	113.4	10300	277	15	4.6	R40A	Y	0.295	7.5	7.4	10
SUB13707	B	61RC4100-RD	491	149.7	13700	277	15	4.6	R60A	Y	0.288	7.3	5.6	8
SUB17207	B	61RC5651-RD	600	182.9	17200	277	15	4.6	R80A	Y	0.284	7.2	4.5	6

¹To modify cold lead length, contact your nVent sales representative.

²Resistance tolerance: +/- 10%

Tolerance on heating cable length: -0% to +3%

SUA/SUB HEATING CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length		Nominal power (watts)	Cable voltage (volts)	Cold lead length ¹		Cold lead code	Joint type	Nominal cable diameter		Resis-tance ² (ohms)	Tail size (AWG)
			(ft)	(m)			(ft)	(m)			(in)	(mm)		
347 Volts and 600 Volts, 3-phase Wye														
SUB2305	B	61RD3610-RD	85	25.9	2300	347	15	4.6	R25A	Y	0.218	5.5	52.4	14
SUB2905	B	61RD3390-RD	107	32.6	2900	347	15	4.6	R25A	Y	0.222	5.6	41.5	14
SUB3405	B	61RD3300-RD	119	36.3	3400	347	15	4.6	R25A	Y	0.250	6.4	35.4	14
SUB4105	B	61RD3200-RD	148	45.1	4100	347	15	4.6	R25A	Y	0.258	6.6	29.4	14
SUB4705	B	61RE3150-RD	171	52.1	4700	347	15	4.6	R25A	Y	0.238	6.0	25.6	14
SUB5605	B	61RE3105-RD	205	62.5	5600	347	15	4.6	R25A	Y	0.264	6.7	21.5	14
SUB6505	B	61RE4800-RD	231	70.4	6500	347	15	4.6	R25A	Y	0.272	6.9	18.5	14
SUB7505	B	61RE4600-RD	267	81.4	7500	347	15	4.6	R25A	Y	0.284	7.2	16.1	14
SUB9205	B	61RE4400-RD	327	99.7	9200	347	15	4.6	R30A	Y	0.275	7.0	13.1	12
SUB10605	B	61RE4300-RD	380	115.9	10600	347	15	4.6	R40A	Y	0.282	7.2	11.4	10
SUB13005	B	61RE4200-RD	463	141.2	13000	347	15	4.6	R40A	Y	0.295	7.5	9.3	10
SUB17205	B	61RC4100-RD	614	187.2	17200	347	15	4.6	R60A	Y	0.288	7.3	7.0	8
480 Volts														
SUB19	B	61RD3200-RD	245	74.7	4700	480	15	4.6	R25A	Y	0.258	6.6	49.0	14
SUB20	B	61RE3105 -RD	340	103.6	6450	480	15	4.6	R25A	Y	0.264	6.7	35.7	14
SUB21	B	61RE4600-RD	440	134.1	8700	480	15	4.6	R25A	Y	0.284	7.2	26.5	14
SUB22	B	61RE4400-RD	525	160.0	11000	480	15	4.6	R25A	Y	0.275	7.0	20.9	14
SUB3208	B	61RD3610-RD	118	36.0	3200	480	15	4.6	R25A	Y	0.218	5.5	72.0	14
SUB4008	B	61RD3390-RD	147	44.8	4000	480	15	4.6	R25A	Y	0.222	5.6	57.6	14
SUB4708	B	61RD3300-RD	163	49.7	4700	480	15	4.6	R25A	Y	0.250	6.4	49.0	14
SUB5708	B	61RD3200-RD	202	61.6	5700	480	15	4.6	R25A	Y	0.258	6.6	40.4	14
SUB6608	B	61RE3150-RD	233	71.0	6600	480	15	4.6	R25A	Y	0.238	6.0	34.9	14
SUB7908	B	61RE3105-RD	278	84.8	7900	480	15	4.6	R25A	Y	0.264	6.7	29.2	14
SUB9008	B	61RE4800-RD	320	97.6	9000	480	15	4.6	R25A	Y	0.272	6.9	25.6	14
SUB10408	B	61RE4600-RD	368	112.2	10400	480	15	4.6	R25A	Y	0.284	7.2	22.2	14
SUB12808	B	61RE4400-RD	450	137.2	12800	480	15	4.6	R30A	Y	0.275	7.0	18.0	12
SUB14808	B	61RE4300-RD	520	158.5	14800	480	15	4.6	R40A	Y	0.282	7.2	15.6	10
SUB18008	B	61RE4200-RD	640	195.1	18000	480	15	4.6	R40A	Y	0.295	7.5	12.8	10
600 Volts														
SUB11	B	61RD3390-RD	225	68.6	4100	600	15	4.6	R25A	Y	0.222	5.6	87.8	14
SUB12	B	61RD3200-RD	310	94.5	5800	600	15	4.6	R25A	Y	0.258	6.6	62.1	14
SUB13	B	61RE3105-RD	428	130.5	8000	600	15	4.6	R25A	Y	0.264	6.7	45.0	14
SUB14	B	61RE4600-RD	548	167.0	11000	600	15	4.6	R25A	Y	0.284	7.2	32.7	14
SUB4006	B	61RD3610-RD	147	44.8	4000	600	15	4.6	R25A	Y	0.218	5.5	90.0	14
SUB5106	B	61RD3390-RD	181	55.2	5100	600	15	4.6	R25A	Y	0.222	5.6	70.6	14
SUB5806	B	61RD3300-RD	207	63.1	5800	600	15	4.6	R25A	Y	0.250	6.4	62.1	14
SUB7106	B	61RD3200-RD	254	77.4	7100	600	15	4.6	R25A	Y	0.258	6.6	50.7	14
SUB8206	B	61RE3150-RD	293	89.3	8200	600	15	4.6	R25A	Y	0.238	6.0	43.9	14
SUB9806	B	61RE3105-RD	350	106.7	9800	600	15	4.6	R25A	Y	0.264	6.7	36.7	14
SUB11206	B	61RE4800-RD	402	122.6	11200	600	15	4.6	R25A	Y	0.272	6.9	32.1	14
SUB13006	B	61RE4600-RD	462	140.9	13000	600	15	4.6	R25A	Y	0.284	7.2	27.7	14
SUB15906	B	61RE4400-RD	566	172.6	15900	600	15	4.6	R30A	Y	0.275	7.0	22.6	12

¹ To modify cold lead length, contact your nVent sales representative.

² Resistance tolerance: +/- 10%

Tolerance on heating cable length: -0% to +3%

APPROVALS



Nonhazardous
Locations

GROUND-FAULT PROTECTION

To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Many nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

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