



MI Heating Cable for Surface Snow Melting

D100
OATO
011A



Visit www.tycothermal.com for more information on our ten-year extended warranty.

Standard HDPE jacketed copper sheathed heating cables

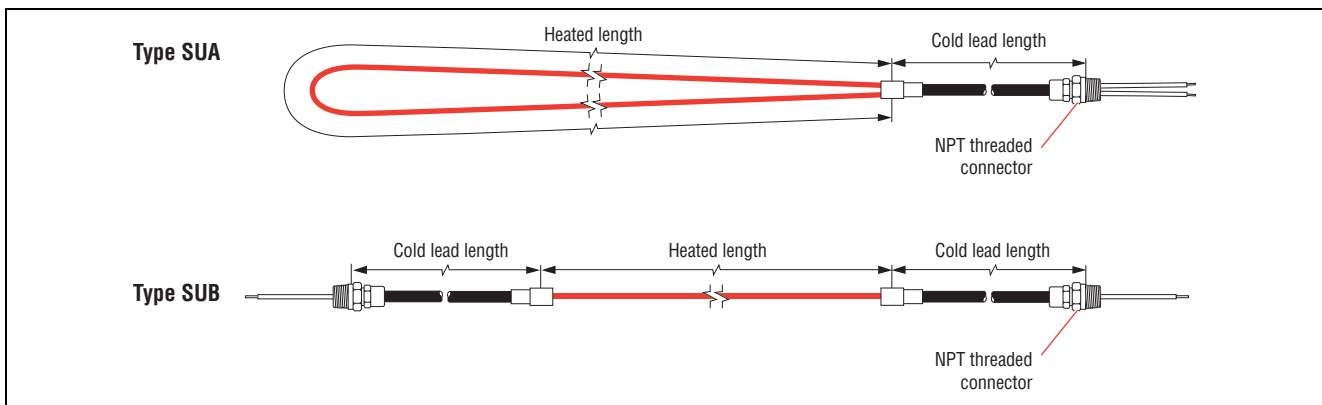
Pyrotenax brand copper sheath mineral insulated heating cables are designed for a wide range of commercial and industrial snow melting applications in concrete, asphalt and pavers.

The copper-sheathed, mineral insulated heating cables are covered with an extruded

high-density polyethylene (HDPE) 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 Tyco Thermal Controls representative or call (800) 545-6258.



Cable Construction

Heating cable

Jacket	HDPE
Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Alloy or copper
Number of conductors	1
Insulation voltage rating	600 V
Cable diameter (with jacket)	0.232 to 0.303 in (5.9 to 7.7 mm)

Cold lead

Jacket	HDPE
Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Copper
Number of conductors	1 or 2
Insulation voltage rating	600 V
Cable diameter (with jacket)	0.310 to 0.420 in (7.9 to 10.7 mm)
Gland size (NPT)	1/2 in
Tail length	12 in (30 cm)

Minimum installation temperature

-4°F (-20°C)

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		Resistance ² (ohms)	Tail size (AWG)
			(ft)	(m)			(ft)	(m)			(in)	(mm)		
120 Volts														
SUA5	A	61HD3610	40	12.2	550	120	7	2.1	LH21A	Y	0.232	5.9	26.2	14
SUA9	A	61HD3200	66	20.1	1100	120	7	2.1	LH21A	Y	0.248	6.3	13.1	14
208 Volts														
SUA4	A	61HD3390	68	20.7	1600	208	7	2.1	LH21A	Y	0.242	6.1	27.0	14
SUA7	A	61HD3200	95	29.0	2300	208	7	2.1	LH21A	Y	0.248	6.3	18.8	14
SUB1	B	61HE3105	132	40.2	3100	208	15	4.6	H25A	Y	0.254	6.5	14.0	14
SUB3	B	61HE4400	280	85.3	3900	208	15	4.6	H30A	Y	0.265	6.7	11.2	12
SUB5	B	61HE4300	260	79.2	5500	208	15	4.6	H40A	Y	0.272	6.9	7.9	10
SUB7	B	61HE4200	310	94.5	7000	208	15	4.6	H40A	Y	0.285	7.2	6.2	10
SUB9	B	61HC5651	630	192.0	9000	208	15	4.6	H60A	Y	0.285	7.2	4.7	8
SUB10	B	61HC5409	717	218.5	13000	208	15	4.6	H80A	Y	0.303	7.7	3.4	6
SUB1402	B	61HD3610	50	15.2	1400	208	15	4.6	H25A	Y	0.232	5.9	30.9	14
SUB1702	B	61HD3390	64	19.5	1700	208	15	4.6	H25A	Y	0.242	6.1	25.4	14
SUB2002	B	61HD3300	72	22.0	2000	208	15	4.6	H25A	Y	0.240	6.1	21.6	14
SUB2402	B	61HD3200	90	27.4	2400	208	15	4.6	H25A	Y	0.248	6.3	18.0	14
SUB2802	B	61HE3150	103	31.4	2800	208	15	4.6	H25A	Y	0.250	6.4	15.5	14
SUB3402	B	61HE3105	121	36.9	3400	208	15	4.6	H25A	Y	0.254	6.5	12.7	14
SUB3902	B	61HE4800	139	42.4	3900	208	15	4.6	H25A	Y	0.262	6.7	11.1	14
SUB4502	B	61HE4600	160	48.8	4500	208	15	4.6	H25A	Y	0.274	7.0	9.6	14
SUB5502	B	61HE4400	197	60.1	5500	208	15	4.6	H30A	Y	0.265	6.7	7.9	12
SUB6402	B	61HE4300	226	68.9	6400	208	15	4.6	H40A	Y	0.272	6.9	6.8	10
SUB7802	B	61HE4200	277	84.5	7800	208	15	4.6	H40A	Y	0.285	7.2	5.5	10
SUB10302	B	61HC4100	368	112.2	10300	208	15	4.6	H60A	Y	0.278	7.1	4.2	8
SUB12802	B	61HC5651	455	138.7	12800	208	15	4.6	H80A	Y	0.285	7.2	3.4	6
SUB16102	B	61HC5409	576	175.6	16100	208	15	4.6	H80A	Y	0.303	7.7	2.7	6
240 Volts														
SUA3	A	61HD3200	140	42.7	2000	240	7	2.1	LH21A	Y	0.248	6.3	28.0	14
SUA8	A	61HE3105	177	53.9	3200	240	7	2.1	LH21A	Y	0.254	6.5	18.0	14
SUB2	B	61HE4600	240	73.1	4000	240	15	4.6	H25A	Y	0.274	7.0	14.5	14
SUB3	B	61HE4400	280	85.3	5200	240	15	4.6	H30A	Y	0.265	6.7	11.2	12
SUB4	B	61HE4300	320	97.5	6000	240	15	4.6	H30A	Y	0.272	6.9	9.6	12
SUB5	B	61HE4300	260	79.2	7350	240	15	4.6	H40A	Y	0.272	6.9	7.9	10
SUB6	B	61HE4200	375	114.3	7500	240	15	4.6	H40A	Y	0.285	7.2	7.5	10
SUB7	B	61HE4200	310	94.5	9250	240	15	4.6	H40A	Y	0.285	7.2	6.2	10
SUB8	B	61HC4100	550	167.6	9000	240	15	4.6	H60A	Y	0.278	7.1	6.4	8
SUB9	B	61HC5651	630	192.0	12000	240	15	4.6	H60A	Y	0.285	7.2	4.7	8
SUB10	B	61HC5409	717	218.5	17000	240	15	4.6	H80A	Y	0.303	7.7	3.4	6
SUB1604	B	61HD3610	59	18.0	1600	240	15	4.6	H25A	Y	0.232	5.9	36.0	14
SUB2004	B	61HD3390	74	22.6	2000	240	15	4.6	H25A	Y	0.242	6.1	28.8	14
SUB2304	B	61HD3300	84	25.6	2300	240	15	4.6	H25A	Y	0.240	6.1	25.0	14
SUB2804	B	61HD3200	103	31.4	2800	240	15	4.6	H25A	Y	0.248	6.3	20.6	14
SUB3204	B	61HE3150	120	36.6	3200	240	15	4.6	H25A	Y	0.250	6.4	18.0	14
SUB3904	B	61HE3105	140	42.7	3900	240	15	4.6	H25A	Y	0.254	6.5	14.8	14
SUB4504	B	61HE4800	160	48.8	4500	240	15	4.6	H25A	Y	0.262	6.7	12.8	14
SUB5204	B	61HE4600	185	56.4	5200	240	15	4.6	H25A	Y	0.274	7.0	11.1	14
SUB6404	B	61HE4400	225	68.6	6400	240	15	4.6	H30A	Y	0.265	6.7	9.0	12
SUB7304	B	61HE4300	263	80.2	7300	240	15	4.6	H40A	Y	0.272	6.9	7.9	10
SUB9004	B	61HE4200	320	97.6	9000	240	15	4.6	H40A	Y	0.285	7.2	6.4	10

¹ To modify cold lead length, contact your Tyco Thermal Controls sales representative.

² Resistance tolerance: +/- 10%

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

SUA/SUB Heating Cable Specifications (Continued)

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)		
SUB11904	B	61HC4100	426	129.9	11900	240	15	4.6	H60A	Y	0.278	7.1	4.8	8
SUB14704	B	61HC5651	528	161.0	14700	240	15	4.6	H80A	Y	0.285	7.2	3.9	6
SUB18604	B	61HC5409	664	202.4	18600	240	15	4.6	H80A	Y	0.303	7.7	3.1	6
277 Volts and 480 Volts, 3-phase Wye														
SUA3	A	61HD3200	140	42.7	2740	277	7	2.1	LH21A	Y	0.248	6.3	28.0	14
SUA8	A	61HE3105	177	53.9	4100	277	7	2.1	LH21A	Y	0.254	6.5	18.7	14
SUB2	B	61HE4600	240	73.1	5300	277	15	4.6	H25A	Y	0.274	7.0	14.5	14
SUB3	B	61HE4400	280	85.3	6850	277	15	4.6	H30A	Y	0.265	6.7	11.2	12
SUB4	B	61HE4300	320	97.5	8000	277	15	4.6	H30A	Y	0.272	6.9	9.6	12
SUB6	B	61HE4200	375	114.3	10200	277	15	4.6	H40A	Y	0.285	7.2	7.5	10
SUB8	B	61HC4100	550	167.6	12200	277	15	4.6	H60A	Y	0.278	7.1	6.4	8
SUB9	B	61HC5651	630	192.0	16400	277	15	4.6	H60A	Y	0.285	7.2	4.7	8
SUB15	B	61HE4800	225	68.6	4250	277	15	4.6	H25A	Y	0.262	6.7	18.1	14
SUB16	B	61HE4400	310	94.5	6180	277	15	4.6	H25A	Y	0.265	6.7	12.4	14
SUB17	B	61HE4200	440	134.1	8700	277	15	4.6	H40A	Y	0.285	7.2	8.8	10
SUB18	B	61HC4100	560	170.7	12000	277	15	4.6	H60A	Y	0.278	7.1	6.4	8
SUB1807	B	61HD3610	70	21.3	1800	277	15	4.6	H25A	Y	0.232	5.9	42.6	14
SUB2307	B	61HD3390	85	25.9	2300	277	15	4.6	H25A	Y	0.242	6.1	33.4	14
SUB2707	B	61HD3300	95	29.0	2700	277	15	4.6	H25A	Y	0.240	6.1	28.4	14
SUB3207	B	61HD3200	119	36.3	3200	277	15	4.6	H25A	Y	0.248	6.3	24.0	14
SUB3807	B	61HE3150	135	41.2	3800	277	15	4.6	H25A	Y	0.250	6.4	20.2	14
SUB4507	B	61HE3105	162	49.4	4500	277	15	4.6	H25A	Y	0.254	6.5	17.1	14
SUB5207	B	61HE4800	184	56.1	5200	277	15	4.6	H25A	Y	0.262	6.7	14.8	14
SUB6007	B	61HE4600	213	64.9	6000	277	15	4.6	H25A	Y	0.274	7.0	12.8	14
SUB7307	B	61HE4400	262	79.9	7300	277	15	4.6	H30A	Y	0.265	6.7	10.5	12
SUB8507	B	61HE4300	300	91.5	8500	277	15	4.6	H40A	Y	0.272	6.9	9.0	10
SUB10307	B	61HE4200	372	113.4	10300	277	15	4.6	H40A	Y	0.285	7.2	7.4	10
SUB13707	B	61HC4100	491	149.7	13700	277	15	4.6	H60A	Y	0.278	7.1	5.6	8
SUB17207	B	61HC5651	600	182.9	17200	277	15	4.6	H80A	Y	0.285	7.2	4.5	6
347 Volts and 600 Volts, 3-phase Wye														
SUB2305	B	61HD3610	85	25.9	2300	347	15	4.6	H25A	Y	0.232	5.9	52.4	14
SUB2905	B	61HD3390	107	32.6	2900	347	15	4.6	H25A	Y	0.242	6.1	41.5	14
SUB3405	B	61HD3300	119	36.3	3400	347	15	4.6	H25A	Y	0.240	6.1	35.4	14
SUB4105	B	61HD3200	148	45.1	4100	347	15	4.6	H25A	Y	0.248	6.3	29.4	14
SUB4705	B	61HE3150	171	52.1	4700	347	15	4.6	H25A	Y	0.250	6.4	25.6	14
SUB5605	B	61HE3105	205	62.5	5600	347	15	4.6	H25A	Y	0.254	6.5	21.5	14
SUB6505	B	61HE4800	231	70.4	6500	347	15	4.6	H25A	Y	0.262	6.7	18.5	14
SUB7505	B	61HE4600	267	81.4	7500	347	15	4.6	H25A	Y	0.274	7.0	16.1	14
SUB9205	B	61HE4400	327	99.7	9200	347	15	4.6	H30A	Y	0.265	6.7	13.1	12
SUB10605	B	61HE4300	380	115.9	10600	347	15	4.6	H40A	Y	0.272	6.9	11.4	10
SUB13005	B	61HE4200	463	141.2	13000	347	15	4.6	H40A	Y	0.285	7.2	9.3	10
SUB17205	B	61HC4100	614	187.2	17200	347	15	4.6	H60A	Y	0.278	7.1	7.0	8

¹ To modify cold lead length, contact your Tyco Thermal Controls sales representative.

² Resistance tolerance: +/- 10%

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

SUA/SUB Heating Cable Specifications (Continued)

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)		
480 Volts														
SUB19	B	61HD3200	245	74.7	4700	480	15	4.6	H25A	Y	0.248	6.3	49.0	14
SUB20	B	61HE3105	340	103.6	6450	480	15	4.6	H25A	Y	0.254	6.5	35.7	14
SUB21	B	61HE4600	440	134.1	8700	480	15	4.6	H25A	Y	0.274	7.0	26.5	14
SUB22	B	61HE4400	525	160.0	11000	480	15	4.6	H25A	Y	0.265	6.7	20.9	14
SUB3208	B	61HD3610	118	36.0	3200	480	15	4.6	H25A	Y	0.232	5.9	72.0	14
SUB4008	B	61HD3390	147	44.8	4000	480	15	4.6	H25A	Y	0.242	6.1	57.6	14
SUB4708	B	61HD3300	163	49.7	4700	480	15	4.6	H25A	Y	0.240	6.1	49.0	14
SUB5708	B	61HD3200	202	61.6	5700	480	15	4.6	H25A	Y	0.248	6.3	40.4	14
SUB6608	B	61HE3150	233	71.0	6600	480	15	4.6	H25A	Y	0.250	6.4	34.9	14
SUB7908	B	61HE3105	278	84.8	7900	480	15	4.6	H25A	Y	0.254	6.5	29.2	14
SUB9008	B	61HE4800	320	97.6	9000	480	15	4.6	H25A	Y	0.262	6.7	25.6	14
SUB10408	B	61HE4600	368	112.2	10400	480	15	4.6	H25A	Y	0.274	7.0	22.2	14
SUB12808	B	61HE4400	450	137.2	12800	480	15	4.6	H30A	Y	0.265	6.7	18.0	12
SUB14808	B	61HE4300	520	158.5	14800	480	15	4.6	H40A	Y	0.272	6.9	15.6	10
SUB18008	B	61HE4200	640	195.1	18000	480	15	4.6	H40A	Y	0.285	7.2	12.8	10
600 Volts														
SUB11	B	61HD3390	225	68.6	4100	600	15	4.6	H25A	Y	0.242	6.1	87.8	14
SUB12	B	61HD3200	310	94.5	5800	600	15	4.6	H25A	Y	0.248	6.3	62.1	14
SUB13	B	61HE3105	428	130.5	8000	600	15	4.6	H25A	Y	0.254	6.5	45.0	14
SUB14	B	61HE4600	548	167.0	11000	600	15	4.6	H25A	Y	0.274	7.0	32.7	14
SUB4006	B	61HD3610	147	44.8	4000	600	15	4.6	H25A	Y	0.232	5.9	90.0	14
SUB5106	B	61HD3390	181	55.2	5100	600	15	4.6	H25A	Y	0.242	6.1	70.6	14
SUB5806	B	61HD3300	207	63.1	5800	600	15	4.6	H25A	Y	0.240	6.1	62.1	14
SUB7106	B	61HD3200	254	77.4	7100	600	15	4.6	H25A	Y	0.248	6.3	50.7	14
SUB8206	B	61HE3150	293	89.3	8200	600	15	4.6	H25A	Y	0.250	6.4	43.9	14
SUB9806	B	61HE3105	350	106.7	9800	600	15	4.6	H25A	Y	0.254	6.5	36.7	14
SUB11206	B	61HE4800	402	122.6	11200	600	15	4.6	H25A	Y	0.262	6.7	32.1	14
SUB13006	B	61HE4600	462	140.9	13000	600	15	4.6	H25A	Y	0.274	7.0	27.7	14
SUB15906	B	61HE4400	566	172.6	15900	600	15	4.6	H30A	Y	0.265	6.7	22.6	12

¹ To modify cold lead length, contact your Tyco Thermal Controls 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 Tyco Thermal Controls, 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 DigiTrace control and monitoring systems meet the ground-fault protection requirement.

**Worldwide Headquarters
Tyco Thermal Controls**

7433 Harwin Drive
Houston, TX 77036
USA
Tel: 800-545-6258
Tel: 650-216-1526
Fax: 800-527-5703
Fax: 650-474-7711
info@tycothermal.com
www.tycothermal.com

**Canada
Tyco Thermal Controls**

250 West St.
Trenton, Ontario
Canada K8V 5S2
Tel: 800-545-6258
Fax: 800-527-5703

**Latin America
Tyco Thermal Controls**

7433 Harwin Drive
Houston, TX 77036
United States
Tel: 713-868-4800
Tel: 713-735-8645
Fax: 713-868-2333

**Europe, Middle East, Africa (EMEA)
Tyco Thermal Controls**

Romeinse Straat 14
3001 Leuven
België / Belgique
Tel: +32 16 213 511
Fax: +32 16 213 603

**Asia Pacific
Tyco Thermal Controls**

20F, Innovation Building,
1009 Yi Shan Rd,
Shanghai 200233,
P.R.China
Tel: +86 21 2412 1688
Fax: +86 21 5426 2937 / 5426 3167

Tyco, Alliance Integrated Systems, AMC, AutoMatrix, AutoSol, BTV, CapaciSense, Chemelex, DHSX, DigiTrace, DigiTrace logo, DigiTrace Supervisor, Duoterm, ElectroMelt, EM2XR, FHSM, FHSC, FlexFit, FlexiClic, Flowguard, FreezeTrace, FreezGuard, Frostex, Frostex Plus, Frostguard, FroStop, FSE, Gardian, HAK, Handvise, HBTv, HCCL, HotCap, HQTv, HTPG, HTPi, HWAT, HXTv, IceStop, Interlock, Isocable, Isodrum, Isoheat, Isomantle, Isopad, Isopad Frostguard, Isopad logo, Isopanel, Isotape, Isotherm, JBM, JBS, K-Flex, K-Flex logo, KHE, KHH, KHL, KHP, KTV, Labsafe, LBTv, LHC, LHFV, LHRV, Metabond, Mini WinterGard, Miser WinterGard, MoniTrace, Multi-plus, NGC, PetroTrace, PLI, PolyMatrix, Pyro CiC, PyroFLX, Pyromaster, Pyropak, Pyrosil, PyroSizer, Pyrotenax, Pyrotenax Designer, Pyrotenax logo, QTVR, QuickNet, QuickNet logo, QuickStat, QuickTerm, RayClic, RaySol, RayStat, Retro WinterGard, RHS, RHSC, RHSM, RMM2, SBF, SBV, SC, SHC, Sheathmaster, ShowerGuard, SLBTv, Smart Heat for Comfort and Safety, SnoCalc, SnoCalc logo, STS, System 500, System 1850, System 1850-SE, System 2000, System 2200, T2, T2 logo, T2Blue, T2QuickNet, T2Red, T2Reflecta, TankCalc Plus, TempBus, Thermoheat, ThermoLimit, Thermo-Line, Total Care in Heat-tracing, Touch, Trac-Loc, Trac Calc, TraceCalc Net, TraceCalc Net logo, TraceCalc Pro logo, TraceGuard 277, TraceMaster, Tracer, Tracer logo, TRACERLYNX, TRACERLYNX logo, TraceStat, TraceTek, TraceTek logo, TruckPak, VLBTv, VLKTv, VPL, We manage the heat you need, WinterGard, WinterGard logo, WinterGard Plus, WinterGard Wet, XL-ERATE, XL-ERATE logo, XL-Trace, XTV and Zero EMI are registered and/or unregistered trademarks of Tyco Thermal Controls LLC or its affiliates.

All other trademarks are the property of their respective owners.



Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Tyco Thermal Controls makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Thermal Controls' only obligations are those in the Tyco Thermal Controls Standard Terms and Conditions of Sale for this product, and in no case will Tyco Thermal Controls or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Tyco Thermal Controls reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.