

# Alloy 825 Trace Heating Cable

**TRM-MI**  
Thermal Resources Management  
ALLOY 825

June 2006

## Alloy 825 Trace Heating Cable & Design

Alloy 825 sheathed heating cables and elements are ideal for industrial freeze protection, high temperature process maintenance heat tracing, and areas where good corrosion resistance are required.

Metal sheathed MI cable is the most durable heating cable available.

High wattage per foot of cable (limited per foot for hazardous areas).

Cables rated at 300V and 600V (see tables)

Cold Leads constructed of MI Cable.

### Applications

Industrial pipe tracing installations hazardous and non hazardous.

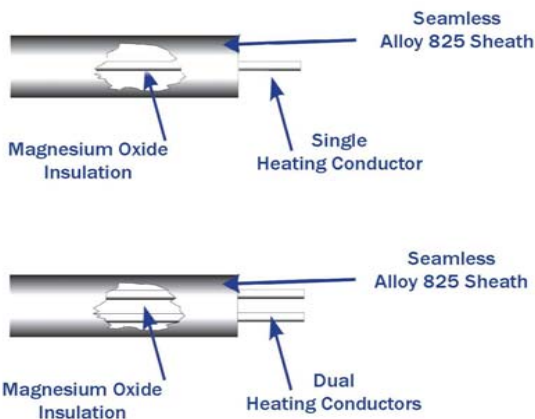
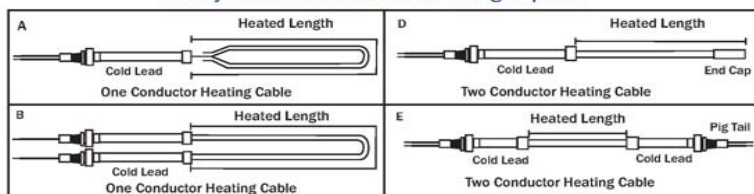
High temperature installations.

Long circuit tracing applications

### Approvals



Factory Terminated Cable Units - Design Options



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\* Full Product Specifications Available Upon Request \*

### CABLE REFERENCE

	Nominal Cable Resistance @ 20° C		Nominal Cable Diameter		Sheath Thickness		Insulation Thickness		Conductor Diameter		Approx Wt
	OHMS/FT	OHMS/ in.	in.	mm	in.	mm	in.	mm	in	mm	kg/km
<b>600 Volt Single Conductor</b>											
H1S200-2	2	6.56	0.146	3.7	0.012	0.3	0.052	1.32	0.018	0.46	47
H1S160-2	1.6	5.25	0.163	4.1	0.013	0.33	0.058	1.47	0.02	0.51	57
H1S130-2	1.3	4.27	0.16	4.1	0.013	0.33	0.056	1.42	0.022	0.56	57
H1S100-2	1	3.28	0.16	4.1	0.013	0.33	0.054	1.37	0.026	0.66	57
H1S850-3	0.85	2.79	0.17	4.3	0.014	0.36	0.057	1.45	0.028	0.71	63
H1S700-3	0.7	2.3	0.16	4.1	0.013	0.33	0.051	1.3	0.031	0.79	57
H1S500-3	0.5	1.64	0.18	4.6	0.015	0.38	0.057	1.45	0.037	0.94	72
H1S280-3	0.28	0.919	0.183	4.6	0.016	0.41	0.062	1.57	0.025	0.64	72
H1S200-3	0.2	0.656	0.18	4.6	0.015	0.38	0.056	1.42	0.038	0.97	72
H1S150-3	0.15	0.492	0.18	4.6	0.015	0.38	0.052	1.32	0.044	1.12	72
H1S118-3	0.118	0.387	0.183	4.6	0.016	0.41	0.064	1.63	0.023	0.58	72
H1S732-4	0.0732	0.24	0.184	4.7	0.016	0.41	0.061	1.55	0.029	0.74	75
H1S581-4	0.0581	0.191	0.184	4.7	0.016	0.41	0.059	1.5	0.032	0.81	75
H1S467-4	0.0467	0.153	0.183	4.6	0.016	0.41	0.062	1.57	0.025	0.64	72
H1S366-4	0.0366	0.12	0.184	4.7	0.016	0.41	0.061	1.55	0.029	0.74	75
H1S290-4	0.029	0.0951	0.184	4.7	0.016	0.41	0.059	1.5	0.032	0.81	75
H1S231-4	0.0231	0.0758	0.184	4.7	0.016	0.41	0.057	1.45	0.036	0.91	75
H1S183-4	0.0183	0.06	0.184	4.7	0.016	0.41	0.055	1.4	0.04	1.02	75
H1S145-4	0.0145	0.0476	0.184	4.7	0.016	0.41	0.053	1.35	0.045	1.14	75
H1S113-4	0.0113	0.0371	0.186	4.7	0.017	0.43	0.051	1.3	0.052	1.32	75
H1S651-5	0.00651	0.0214	0.187	4.7	0.018	0.46	0.055	1.4	0.041	1.04	75
H1S409-5	0.00409	0.0134	0.191	4.9	0.019	0.48	0.055	1.4	0.044	1.12	82
H1HC14	0.00258	0.00846	0.215	5.5	0.021	0.53	0.055	1.4	0.064	1.63	104
H1HC12	0.00162	0.00531	0.273	6.9	0.027	0.69	0.069	1.75	0.081	2.06	163
H1HC10	0.00102	0.00335	0.253	7.3	0.025	0.64	0.052	1.32	0.102	2.59	123
H1HC8	0.00064	0.0021	0.319	8.1	0.032	0.81	0.064	1.63	0.128	3.25	225

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	Nominal Cable Resistance @ 20°C (Loop) OHMS/FT	Nominal Cable Resistance @ 20°C (Loop) OHMS/M	Nominal Cable Diameter		Sheath Thickness		Insulation Thickness		Conductor Diameter		Approx Wts kg/km
			in.	mm	in.	mm	in.	mm	in.	mm	
<b>300 Volt Two conductor</b>											
L2S110-1	11	36.1	0.13	3.3	0.011	0.25	0.028	0.66	0.012	0.3	37
L2S900-2	9	29.5	0.136	3.5	0.011	0.28	0.028	0.71	0.013	0.33	42
L2S750-2	7.5	24.6	0.136	3.5	0.012	0.3	0.031	0.79	0.015	0.38	42
L2S600-2	6	19.7	0.135	3.4	0.01	0.25	0.028	0.71	0.015	0.38	39
L2S400-2	4	13.1	0.146	3.7	0.012	0.3	0.028	0.71	0.018	0.46	47
L2S275-2	2.75	9.02	0.146	3.7	0.012	0.3	0.026	0.66	0.022	0.56	47
L2S200-2	2	6.56	0.18	4.6	0.015	0.38	0.033	0.84	0.026	0.66	72
L2S170-2	1.7	5.58	0.16	4.1	0.014	0.36	0.03	0.76	0.028	0.71	57
L2S114-2	1.14	3.74	0.17	4.3	0.017	0.43	0.035	0.89	0.023	0.58	63
L2S700-3	0.7	2.3	0.16	4.1	0.013	0.33	0.025	0.64	0.029	0.74	57
L2S472-3	0.472	1.55	0.169	4.3	0.017	0.43	0.039	0.99	0.016	0.41	63
L2S374-3	0.374	1.23	0.169	4.3	0.017	0.43	0.038	0.97	0.018	0.46	63
L2S293-3	0.293	0.961	0.17	4.3	0.017	0.43	0.037	0.94	0.02	0.51	63
L2S200-3	0.2	0.656	0.146	3.7	0.012	0.3	0.025	0.64	0.025	0.64	47
L2S150-3	0.15	0.492	0.16	4.1	0.013	0.33	0.026	0.66	0.028	0.71	57
L2S100-3	0.1	0.328	0.18	4.6	0.015	0.38	0.027	0.69	0.035	0.89	72
L2S734-4	0.0734	0.241	0.17	4.3	0.017	0.43	0.031	0.79	0.029	0.74	63
L2S583-4	0.0583	0.191	0.17	4.3	0.017	0.43	0.029	0.74	0.032	0.81	63
L2S458-4	0.0458	0.15	0.171	4.3	0.017	0.43	0.027	0.69	0.036	0.91	63
L2S324-4	0.0324	0.106	0.17	4.3	0.017	0.43	0.033	0.84	0.025	0.64	63

## 600 Volt Two Conductor

H2S110-1	11	36.1	0.215	5.5	0.018	0.46	0.052	1.32	0.012	0.3	105
H2S900-2	9	29.5	0.215	5.5	0.018	0.46	0.051	1.3	0.013	0.33	105
H2S600-2	6	19.7	0.215	5.5	0.018	0.46	0.05	1.27	0.016	0.41	105
H2S414-2	4.14	13.6	0.211	5.4	0.02	0.51	0.051	1.3	0.018	0.46	101
H2S200-2	2	6.56	0.245	6.2	0.02	0.51	0.05	1.27	0.027	0.69	133
H2S115-2	1.15	3.77	0.211	5.4	0.02	0.51	0.051	1.3	0.018	0.46	101
H2S700-3	0.7	2.3	0.265	6.7	0.022	0.56	0.055	1.4	0.029	0.74	160
H2S505-3	0.505	1.66	0.206	5.2	0.02	0.51	0.051	1.3	0.015	0.38	94
H2S286-3	0.286	0.938	0.217	5.5	0.021	0.53	0.051	1.3	0.02	0.51	105
H2S200-3	0.2	0.656	0.245	6.2	0.02	0.51	0.052	1.32	0.025	0.64	133
H2S150-3	0.15	0.492	0.245	6.2	0.02	0.51	0.05	1.27	0.028	0.71	133
H2S100-3	0.1	0.328	0.265	6.7	0.022	0.56	0.051	1.3	0.035	0.89	160
H2S775-4	0.0775	0.254	0.234	5.9	0.023	0.58	0.051	1.3	0.028	0.71	124
H2S561-4	0.0561	0.184	0.245	6.2	0.024	0.61	0.051	1.3	0.033	0.84	133
H2S402-4	0.0402	0.132	0.258	6.6	0.025	0.64	0.051	1.3	0.039	0.99	155
H2S281-4	0.0281	0.0922	0.275	7	0.027	0.69	0.051	1.3	0.046	1.17	174
H2S200-4	0.02	0.0656	0.285	7.2	0.028	0.71	0.055	1.4	0.033	0.84	184
H2SC18	0.013	0.0427	0.304	7.7	0.029	0.74	0.055	1.4	0.04	1.02	211
H2SC16	0.00918	0.0268	0.311	7.9	0.032	0.81	0.055	1.4	0.051	1.3	222
H2SC14	0.00516	0.0169	0.364	9.2	0.035	0.89	0.055	1.4	0.064	1.63	333
H2SC12	0.00324	0.0106	0.402	10.2	0.033	0.84	0.059	1.5	0.081	2.06	409
H2SC10	0.00204	0.00669	0.496	12.6	0.041	1.04	0.072	1.83	0.102	2.59	625
H2SC8	0.00128	0.0042	0.543	13.8	0.04	1.02	0.069	1.75	0.128	3.25	749

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## How To Specify A TRM Alloy 825 Heating Unit

a - b - c - d - e - f - g - h

a	Design - A,B,D, or E model
b	Cable reference - see tables above
c	Heating Cable Length in ft
d	Watts
e	Volts
f	Cold lead length in ft
g	Cold lead AWG
h	Cold lead joint rating

Example

A - L252S02000 - 30 - 807 - 208 - 6 - 14