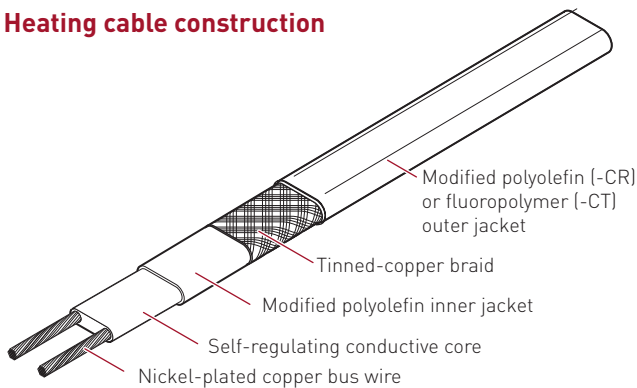


XL-TRACE SELF-REGULATING HEATING CABLE

For pipe freeze protection and flow maintenance

Heating cable construction



PRODUCT OVERVIEW

Raychem XL-Trace is designed for pipe freeze protection and flow maintenance in the following applications:

- Freeze protection of general water piping (aboveground and buried)
- Freeze protection of fire sprinkler system piping, including sprinklers
- Flow maintenance of greasy waste lines (aboveground and buried)
- Flow maintenance of fuel lines (aboveground)

The heating element in the XL-Trace heating cable consists of a continuous core of conductive polymer extruded between two copper bus wires. The XL-Trace heating cable regulates its power output in response to pipe temperature changes. This self-regulating technology allows XL-Trace heating cable to be overlapped or installed on plastic pipes without overheating.

Low total installed cost

The XL-Trace heating cable's parallel circuitry allows it to be cut to the exact length required, with no wasted cable. Its flexibility allows it to be wrapped around complex fittings and valves. All of these characteristics simplify and streamline the design of a heat-tracing system. Installation is quick and simple.

Low total operating cost

Building operators are assured of optimal energy efficiency and low maintenance costs when an XL-Trace system is specified.

The same features that make an XL-Trace system easy to install the first time also simplify additions or changes to the system during building renovations.

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

CATALOG NUMBER	5XL1-CR/CT	5XL2-CR/CT	8XL1-CR/CT	8XL2-CR/CT	12XL2-CR/CT
VOLTAGE	120 V	208-277 V	120 V	208-277 V	208-277 V
MAXIMUM OPERATING TEMPERATURE	150°F (65°C)	150°F (65°C)	150°F (65°C)	150°F (65°C)	150°F (65°C)
MAXIMUM EXPOSURE TEMPERATURE	150°F (65°C)	150°F (65°C)	150°F (65°C)	150°F (65°C)	185°F ¹ (85°C) ¹
MINIMUM INSTALLATION TEMPERATURE	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)
MINIMUM BEND RADIUS	1/2 in (12 mm)	1/2 in (12 mm)	1/2 in (12 mm)	1/2 in (12 mm)	1/2 in (12 mm)

¹ When the design requires 185°F (85°C) exposure temperature, all connections must be installed off the pipe.

MAXIMUM CIRCUIT LENGTH IN FEET

		40°F / 110°F Maintain*										
Start-up temperature (°F)	CB size (A)	5XL1	8XL1	5XL2			8XL2			12XL2		
		120 V	120 V	208 V	240 V	277 V	208 V	240 V	277 V	208 V	240 V	277 V
-20°F	15	101	76	174	178	183	131	138	146	111	114	117
	20	134	101	232	237	245	175	184	194	148	151	156
	30	201	151	349	356	367	262	276	291	223	227	234
	40	270	201	465	474	478	349	368	388	297	303	312
0°F	15	115	86	199	203	209	149	157	166	120	122	126
	20	153	115	265	271	279	199	209	221	160	163	168
	30	230	172	398	406	419	298	314	331	239	244	252
	40	270	210	470	490	530	370/399	390/420	420/443	319	326	336
20°F	15	134	100	232	237	244	173	182	192	126	129	133
	20	178	133	309	315	325	231	243	257	169	172	177
	30	270	200	464	473	488	346	365	385	253	258	266
	40	270	210	470	490	530	370/462	390/486	420/513	340/349	344	355
40°F	15	160	119	278	283	292	206	217	229	142	145	150
	20	214	159	370	378	390	275	290	306	190	194	200
	30	270	210	470	490	530	370/416	390/438	420/462	285	291	300
	40	270	210	470	490	530	370/554	390/584	420/616	340/398	360/406	380/419
50°F (buried)	15	-	-	-	-	-	228	240	254	152	155	160
	20	-	-	-	-	-	304	320	338	203	207	213
	30	-	-	-	-	-	457	481	507	304	310	320
	40	-	-	-	-	-	609	641	676	405	414	427
65°F (indoors grease)	15	-	-	-	-	-	272	286	302	169	172	178
	20	-	-	-	-	-	362	381	402	225	230	237
	30	-	-	-	-	-	543	572	603	338	345	356
	40	-	-	-	-	-	610	660	720	430	460	490

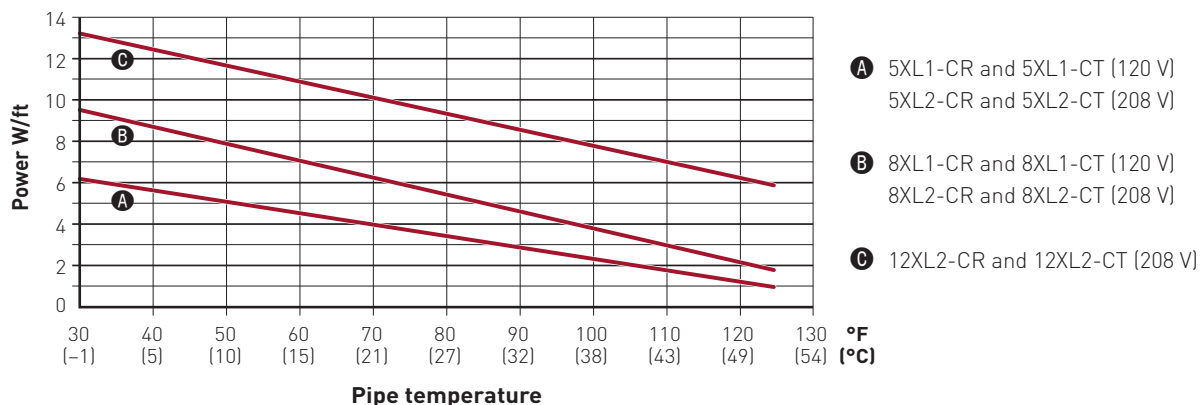
* When maximum circuit length is listed in:
 - black type, the value is for applications with a 40°F maintain
 - red type, the value is for applications with a 110°F maintain

MAXIMUM CIRCUIT LENGTH IN METERS

4°C / 43°C Maintain*												
Start-up temperature (°C)	CB size (A)	5XL1	8XL1	5XL2			8XL2			12XL2		
		120 V	120 V	208 V	240 V	277 V	208 V	240 V	277 V	208 V	240 V	277 V
-29°C	15	31	23	53	54	56	40	42	44	34	35	36
	20	41	31	71	72	75	53	56	59	45	46	48
	30	61	46	106	108	112	80	84	89	68	69	71
	40	82	61	142	145	149	106	112	118	90	92	95
-18°C	15	35	26	61	62	64	45	48	51	36	37	38
	20	47	35	81	83	85	61	64	67	49	50	51
	30	70	52	121	124	128	91	96	101	73	74	77
	40	82	64	143	149	162	113/122	119/128	128/135	97	99	102
-7°C	15	41	31	71	72	74	53	56	59	39	39	41
	20	54	41	94	96	99	70	74	78	51	52	54
	30	82	61	141	144	149	106	111	117	77	79	81
	40	82	64	143	149	162	113/141	119/148	128/156	104/106	105	108
4°C	15	49	36	85	86	89	63	66	70	43	44	46
	20	65	48	113	115	119	84	88	93	58	59	61
	30	82	64	143	149	162	113/127	119/134	128/141	87	89	91
	40	82	64	143	149	162	113/169	119/178	128/188	104/121	110/124	116/128
10°C (buried grease)	15	-	-	-	-	-	70	73	77	46	47	49
	20	-	-	-	-	-	93	98	103	62	63	65
	30	-	-	-	-	-	139	147	155	93	95	98
	40	-	-	-	-	-	186	195	206	124	126	130
18°C (indoors grease)	15	-	-	-	-	-	83	87	92	52	53	54
	20	-	-	-	-	-	110	116	123	69	70	72
	30	-	-	-	-	-	166	174	184	103	105	108
	40	-	-	-	-	-	186	201	220	131	140	149

* When maximum circuit length is listed in:
 - black type, the value is for applications with a 40°F maintain
 - red type, the value is for applications with a 110°F maintain

NOMINAL POWER OUTPUT ON METAL PIPES AT 120 V/208 V



XL-TRACE

BUS WIRES

16 AWG nickel-plated copper

BRAID/OUTER JACKET

Tinned-copper braid with modified polyolefin jacket (-CR) or fluoropolymer jacket (-CT).

DIMENSIONS

	5XL AND 8XL	12XL
Maximum width	0.56 in (14 mm)	0.62 in (16 mm)
Maximum thickness	0.24 in (6 mm)	0.24 in (6 mm)

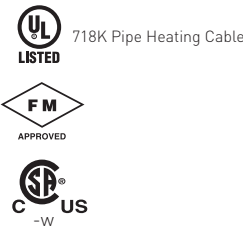
NOMINAL WEIGHT

	92 lb/1000 ft	104 lb/1000 ft
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CONNECTION KITS

Raychem RayClic or FTC connection kits must be used with XL-Trace heating cables. Refer to the Pipe Freeze Protection and Flow Maintenance Design Guide (H55838) for proper connection kit selection.

APPROVALS



Refer to the Pipe Freeze Protection and Flow Maintenance Design Guide (H55838) and the Fire Sprinkler Freeze Protections Design Guide (H58489) for specific product approval details.

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 Thermal Management, 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 Raychem control and monitoring systems meet the ground-fault protection requirement.



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