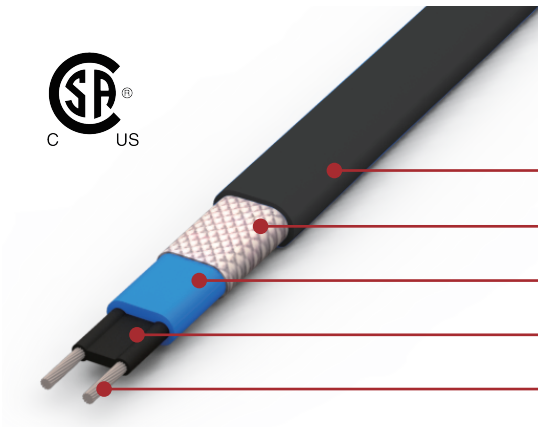


Self Regulating Heating Cable Pipe Freeze Protection

Description

FLN self-regulating heating cables are protected by a tinned copper braid and a polyolefin outer jacket to provide grounding and additional mechanical protection for the cable.

The heating element in the FLN heating cable consists of a continuous core of conductive polymer extruded between two copper bus wires. FLN heating cable regulates its power output in response to pipe temperature changes. Its self-regulating characteristics improve safety and reliability. That allows FLN heating cable to be overlapped or installed on plastic pipes without overheating.



Cable Construction

Outer jacket (Modified polyolefin)

Tinned copper braid

Radiation cross-linked polyolefin insulation

Semi-conductive self-limiting matrix

Bus wire

Ordering Information

Output (3,5,8,10 W/ft ;10, 16, 26, 32 W/m)

Supply Voltage (1:110~120V; 2:208~240V)

☐ ☐ FLN ☐

Application

FLN self-regulating heating cables are designed to provide freeze protection (of general water piping or sprinkler system standpipes) and temperature maintenance (of greasy waste lines or fuel lines) to metallic and nonmetallic pipes.

Easy to Design

With parallel circuitry, FLN cables do not require exact piping dimensions and can be cut to length in the field. Heat tracing circuits for field-routed piping can be quickly and easily designed on site.

Energy Efficiency / Cost Saving

With the power self-limiting and cable's parallel circuitry characteristics, FLN cables can be cut with no waste cable and operate at the lowest power consumption.

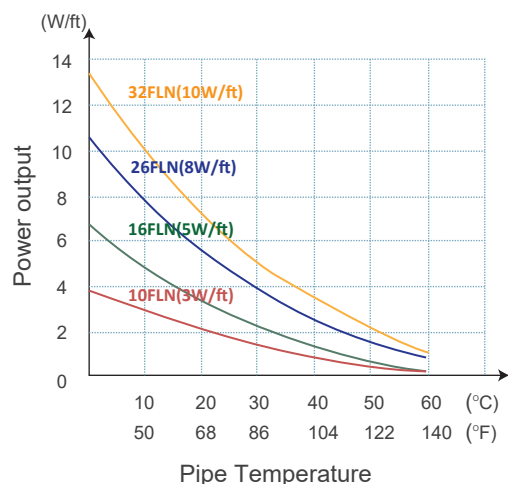
Characteristics

Bus Wires	16AWG Tinned copper wires			
Metallic braid	Tinned copper			
Outer Jacket	Modified polyolefin			
Supply Voltage	110 ~ 120V or 208 ~ 240V			
Circuit Protection	30mA ground-fault protection required			
Temperature rating		Weights and Dimensions		
Maximum Maintain Temperature	149°F(65°C)	Type	Dimensions	Weight
Maximum Exposure Temperature	185°F(85°C)	FLN1/2	0.52*0.24 inch (13.3*6 mm)	13.0kg/ 100 m
Minimum Installation Temperature	-4°F(-20°C)			
Power Output	3,5,8,10 W/ft (10,16, 26,32 W/m)			

Maximum cable length (ft, m) vs. circuit breaker size

120V Service Voltage			Maximum circuit length (m) per circuit breaker							
Catalog No.	Start-up Temp.		15A		20A		30A		40A	
	(°F)	(°C)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)
10FLN1	50	10	295	91	295	91	295	91	295	91
	32	0	259	79	279	85	295	91	295	91
	-4	-20	183	56	236	72	295	91	295	91
16FLN1	50	10	203	62	216	66	249	76	249	76
	32	0	177	54	200	61	249	76	249	76
	-4	-20	131	40	170	52	249	76	249	76
26FLN1	50	10	131	40	170	52	190	58	190	58
	32	0	118	36	154	47	196	57	190	58
	-4	-20	88	27	118	36	183	56	190	58
32FLN1	50	10	105	32	144	44	164	50	164	50
	32	0	92	28	128	39	154	47	161	49
	-4	-20	72	22	98	30	141	43	161	49

240V Service Voltage			Maximum circuit length (m) per circuit breaker							
Catalog No.	Start-up Temp.		15A		20A		30A		40A	
	(°F)	(°C)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)
10FLN2	50	10	531	162	584	178	584	178	584	178
	32	0	472	144	548	167	584	178	584	178
	-4	-20	354	108	479	146	584	178	584	178
16FLN2	50	10	413	126	430	131	489	149	489	149
	32	0	361	110	400	122	489	149	489	149
	-4	-20	259	79	341	104	489	149	489	149
26FLN2	50	10	265	81	341	104	377	115	377	115
	32	0	236	72	308	94	374	115	377	115
	-4	-20	177	54	243	74	364	111	377	115
32FLN2	50	10	197	60	252	77	324	99	324	99
	32	0	180	55	230	70	311	95	321	98
	-4	-20	147	45	190	58	288	88	318	97



Voltage Adjustment (base on 240V)

Type	Adjustment Multiplier					
	208VAC		220VAC		277VAC	
	Power	Length	Power	Length	Power	Length
10FLN	0.76	0.92	0.85	0.94	1.28	1.08
16FLN	0.79	0.92	0.87	0.94	1.24	1.09
26FLN	0.84	0.93	0.90	0.96	1.20	1.10
32FLN	0.86	0.93	0.92	0.96	1.16	1.11

Accessories

E-POLY supplies a complete range of accessories including power connection (EZK-PPC) / termination (EZK-PT) / splice kits (EZK-S) and end seals (EZK-ES). These items are recommended for the correct operation of FLN products.

Further Information

Please consult the appropriate termination instructions and the E-POLY Installation, Testing and Maintenance Manual for further details.