DREXAN™ HeatTracer

Fujikura

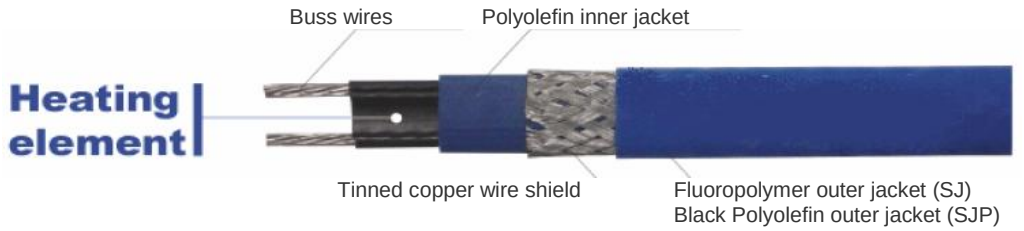
PipeGuard

Self Regulating Heating Cable

Self-Regulating Heating Cables for all your Freeze Protection needs Drexan™ HeatTracer PipeGuard is designed to serve the most demanding environments including hazardous and non-hazardous areas, as well as areas where corrosives may be of concern.

PipeGuard is designed to maintain temperatures up to 150°F (65°C) and can withstand temperatures up to 185°F (85°C). PipeGuard is certified to all applicable CSA (CUS) standards for use throughout North America. PipeGuard is suitable for metallic and non-metallic pipes, tanks and vessels.

Heating Cable Construction



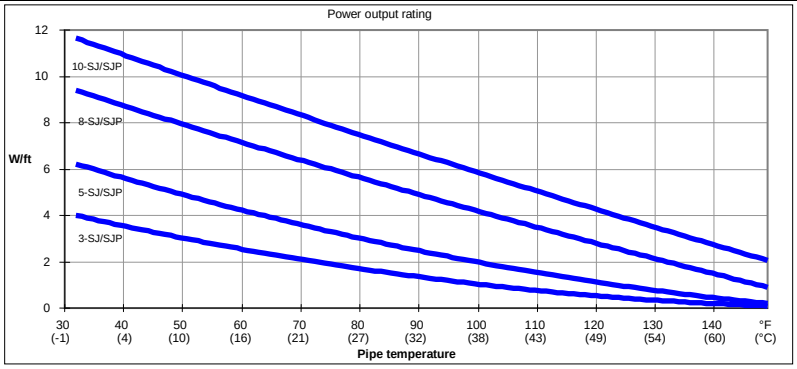
Application	
Area Classification	Non-hazardous and hazardous locations
Traced Surface Type	Metal and plastic
Chemical Resistance	For exposure to organic chemicals or corrosives: Use – SJ (fluropolymer outer jacket) For exposure to aqueous inorganic chemicals: Use - SJP (modified polyolefin outer jacket) For aggressive organics and corrosives: Consult your Drexan™ HeatTracer representative.
Supply Voltage	
PipeGuard xx-**1**SJ(P)	100-130 VAC
PipeGuard xx-**2**SJ(P)	200-277 VAC
Temperature Rating	
Maximum maintain or continuous exposure temperature (power on)	150˚F (65˚C)
Maximum intermittent exposure temperature, 1000 hours (power on)	185˚F (85˚C)
Temperature ID Number (T-Rating)	T6: 185˚F (85˚C) Temperature ID numbers are consistent with all North American electrical codes
Approvals	C SP® US Class I, Div. 1/2, Groups A, B, C, D Class II, Div. 1/2, Groups E, F, G Class III
Design and Installation	For design and installation assistance: contact Drexan™ Technical Support at 1-800-663-6873. Also reference PipeGuard Design Guide HD070215-1

Heating Cables

PipeGuard

Nominal Power Output Rating on Metal Pipes at 120 V/240 V

	Power output Adjustment Factor
208 V	
3-SJ or SJP	0.82
5-SJ or SJP	0.89
8-SJ or SJP	0.94
10-SJ or SJP	0.96
277V	
3-SJ or SJP	1.21
5-SJ or SJP	1.14
8-SJ or SJP	1.07
10-SJ or SJP	1.07



Maximum Circuit Lengths Based on Circuit Breaker Sizes

	Ambient temperature at start-up		Maximum continuous circuit length (in feet) per circuit breaker							
			120V				240V			
			15 A	20 A	30 A	40 A	15 A	20 A	30 A	40 A
3-SJ/SJP	50˚F	(10˚C)	335	335	340	345	653	655	662	665
	0˚F	(-18˚C)	210	267	340	345	403	525	662	665
	-20˚F	(-29˚C)	180	243	340	345	348	448	660	665
	-40˚F	(-40˚C)	160	210	320	345	310	407	615	665
5-SJ/SJP	50˚F	(10˚C)	235	272	272	272	465	545	545	545
	0˚F	(-18˚C)	155	192	272	272	290	385	545	545
	-20˚F	(-29˚C)	133	160	255	272	250	335	505	545
	-40˚F	(-40˚C)	115	146	225	272	235	301	445	545
8-SJ/SJP	50˚F	(10˚C)	155	202	215	215	303	403	427	427
	0˚F	(-18˚C)	105	135	203	215	195	267	404	427
	-20˚F	(-29˚C)	90	120	180	215	178	240	355	427
	-40˚F	(-40˚C)	85	110	158	215	155	235	320	427
10-SJ/SJP	50˚F	(10˚C)	125	157	182	183	243	315	365	365
	0˚F	(-18˚C)	80	112	163	180	155	220	325	365
	-20˚F	(-29˚C)	70	93	140	180	148	190	282	365
	-40˚F	(-40˚C)	65	85	125	180	127	175	255	343

Ground-Fault Protection

Drexan™ and National Electrical Codes both require ground-fault protection of equipment and a grounded metallic covering on all heating cables. Ground-fault protection of components and each heating cable branch circuit reduces the danger of fire caused by continuous electrical arcing resulting from improper installation or damage to the heating cable. Following are some of the ground-fault breakers that satisfy this equipment protection requirement: Square D Type QOB-EPD or QO-EPD and Cutler Hammer (Westinghouse) Type QBGFEP

Product Characteristics	SJ	SJP
Minimum bend radius	@68˚F (20˚C): 1.18 in (30 mm)	@68˚F (20˚C): 1.18 in (30 mm)
Weight (lb per 10 ft, nominal)	0.87 (130 g/m)	0.84 (125 g/m)
Buss wire size	16 AWG	16 AWG
Outer jacket color	Blue	Black
Heating cable dimensions	0.50 in x 0.22 in (12.8 mm x 5.5 mm)	0.51 in x 0.22 in (13.0 mm x 5.7 mm)

Components

Drexan™ offers a full range of components for power connections, splices, and end seals. These components must be used in order to ensure proper functioning of the product and compliance with warranty, code and certification requirements.

Contact Info