

CRJ Self Regulating Water Pipe Freeze Protection Cable

- Prevents water from freezing in metal and plastic pipes
- Avoids the cost and inconvenience of burst pipes
- Self regulating technology and recommended thermostatic control ensures lowest possible running costs

Typical Applications

- Stables
- Sprinkler systems

Features

- Self regulating technology ensures that cable output will decrease as ambient temperature increases
- Can be cut to length, terminated, T jointed and spliced on site using the BN Thermic's termination and splice kits
- Can be double wrapped to protect valves, flanges etc. without risk of creating hot spots
- Fully moisture proof with full length earth braid

Controlling CRJ Self Regulating Pipe Freeze Protection cable

Although the cable's self regulating technology ensures that cable output will decrease as ambient temperature increases, thermostatic control is still recommended. A master frost thermostat will prevent the low level of electricity consumption that would otherwise occur when the ambient temperature was above freezing point.

BN Thermic offers a choice of two thermostats: FST-IN and FST-EX. The FST-EX should be selected for outdoor applications or where a tamperproof device is preferred.

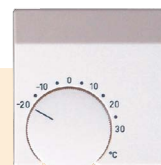
Both thermostats have a switching capacity of 10A. Larger loads can be switched via a suitably rated contactor.

Notes on Selection and Installation

- Use the following tables to select the correct output and length of cable required for your application. You will notice that in most instances a straight run of cable will suffice. The table also indicates the thickness of the insulation which should cover both pipe and cable.
- A CRJ-T1 termination kit will be required per circuit with one CRJ-S splice kit required for every splice or T



PIPE FREEZE & GUTTER PROTECTION



FST-IN
Thermostat for indoor use



FST-EX
IP65 Thermostat for outdoor use



CRJ-T Termination Kit
Prepares cable for electrical connection and seals the 'far end'



CRJ-S Splice kit
for joining two lengths of cable or for making a 'T' joint

- Secure the cable to the pipe at 200mm intervals using PF-T fixing tape
- Plastic pipes should be wrapped in AL50 aluminium tape before installing the cable
- Maximum circuit lengths are as follows:
CRJ-10: 205m
CRJ-24: 126m
- BN Thermic PF-L warning labels should be applied to the outside of the insulation



PF-L Caution Labels
applied to the exterior of the insulation

CRJ Pipe Freeze protection Cable - Specifications

Model	Volts	W/m	Description
CRJ-10	230	10	10W/m cable - by the metre
CRJ-25	230	25	25W/m cable - by the metre
CRJ-T1	Termination kit		
CRJ-T5	Termination kit pack of 5		
CRJ-S	Splice/Tee kit		
PF-L	Caution label pack of 10		
PF-T	Flame Retardant Fixing Tape 33m x 19mm		

CRJ Selection Table 1

(minimum ambient temperature -20°C)

Pipe Diameter (mm)	Insulation Thickness (mm)		
	12	25	50
12	CRJ-10 Straight	CRJ-10 Straight	CRJ-10 Straight
25	CRJ-25 Straight	CRJ-10 Straight	CRJ-10 Straight
50	CRJ-25 Straight	CRJ-10 Straight	CRJ-10 Straight
75	CRJ-25 1.3m cable/1m pipe	CRJ-25 Straight	CRJ-10 Straight
100	CRJ-25 1.8m cable/1m pipe	CRJ-25 Straight	CRJ-25 Straight
150	CRJ-25 3m cable/1m pipe	CRJ-25 1.4m cable/1m pipe	CRJ-25 1.2m cable/1m pipe

CRJ Selection Table 2

(minimum ambient temperature -20°C)

Pipe Diameter (mm)	Additional Cable Length (m)		
	Pair of Flanges	Valve	Support
12	0.23	0.10	0.10
25	0.28	0.15	0.10
50	0.30	0.30	0.15
75	0.45	0.40	0.15
100	0.60	0.50	0.20
150	0.80	0.60	0.25



PF-T Fixing Tape
Secures CRJ to pipe

Recommended frost thermostats

Model	Description	Full Details on page
FST-IN	Frost Thermostat Indoor Use (10A)	59
FST-EX	Frost Thermostat Outdoor Use (10A)	59



CRJ Self Regulating Cable -
Dispensed by the metre