

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
- Farms

Features

- Self regulating technology ensures that cable power consumption 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 is 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



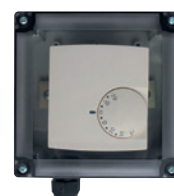
CRJ-T Termination Kit
Prepares cable for electrical connection and seals the 'far end'



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



FST-IN
Thermostat for indoor use

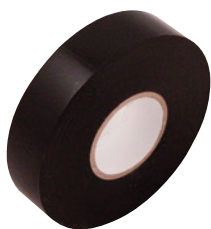


FST-EX
IP65 Thermostat for outdoor use

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 joint. Both CRJ-T1 and CRJ-S include the required material to seal the 'far end' of a cable.
- 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
- BN Thermic PF-L warning labels should be applied to the outside of the insulation
- Maximum circuit length (and breaker size):
CRJM-11: 128m (16A)
CRJM-17: 102m (20A)
CRJ-25: 126m (32A)



PF-T Fixing Tape
Secures CRJ to pipe



AL-50 Aluminium Tape for
use with Plastic Pipes



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

CRJ Pipe Freeze protection Cable - Specifications

Model	Volts	W/m	Description	List Price (under 50m)
CRJM-11	230	11	11W/m cable - by the metre	£6.30
CRJM-17	230	17	17W/m cable - by the metre	£7.30
CRJ-25	230	25	25W/m cable - by the metre	£12.00

CRJ Accessories

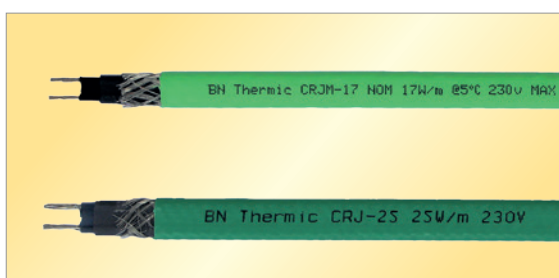
Model	Description
CRJ-T1	Termination kit
CRJ-S	Splice/T joint kit
PF-L	Cautions label pack of 10
PF-T	Flame Retardant Fixing Tape 33m x 19mm
AL-50	45m x 50mm aluminium tape

CRJ Selection Table 1 (Based on a minimum ambient temperature of -18°C and rock wool insulation)

Outside Pipe Diameter (mm)	Insulation Thickness (mm)		
	12	25	50
12	CRJM-11 Straight	CRJM-11 Straight	CRJM-11 Straight
25	CRJM-17 Straight	CRJM-11 Straight	CRJM-11 Straight
50	CRJ-17 1.6m cable/1m pipe or CRJ-25 Straight	CRJM-11 Straight	CRJM-11 Straight
75	-----	CRJM-11 Straight	CRJM-11 Straight
100	-----	CRJM-17 Straight	CRJ-11 Straight
150	-----	CRJ-17 1.6m cable/1m pipe or CRJ-25 Straight	CRJM-17 Straight

Recommended frost thermostats

Model	Description	Full Details on page
FST-IN	Frost Thermostat Indoor Use (10A)	76
FST-EX	Frost Thermostat Outdoor Use (10A)	77



**CRJ and
CRJM Cables**

**CRJ Self Regulating Cable -
Dispensed by the metre**