

XIN/SC

Technical Data

Max. Process Temp.	energised 600°C
Max. withstand Temp.	de-energised 1000°C
Min. Installation Temp.	minus 60°C
Cable Diameters	3.2mm to 6.5mm nominal
Cable Sheath	Inconel 600
Min. Bending radius	Dia. x 6
Power Connection Cables	1.3 metres long, 2.5mm copper sheathed terminated with M20 Brass compression glands

Installation Guide

- Install a straight line trace for pipework heating if practical
- Apply cable to the underside of the pipework
- Never allow loops or adjacent cable runs to touch or cross over each other - this will eliminate localised hotspots
- Form a sufficient loop into an 'S' configuration at valves
- Provide a suitable loop bend when crossing over flanges and in-line connections
- Ensure brazed joints are not applied directly onto surfaces in excess of 500°C
- Locate copper lead-in cables away from temperatures in excess of 250°C

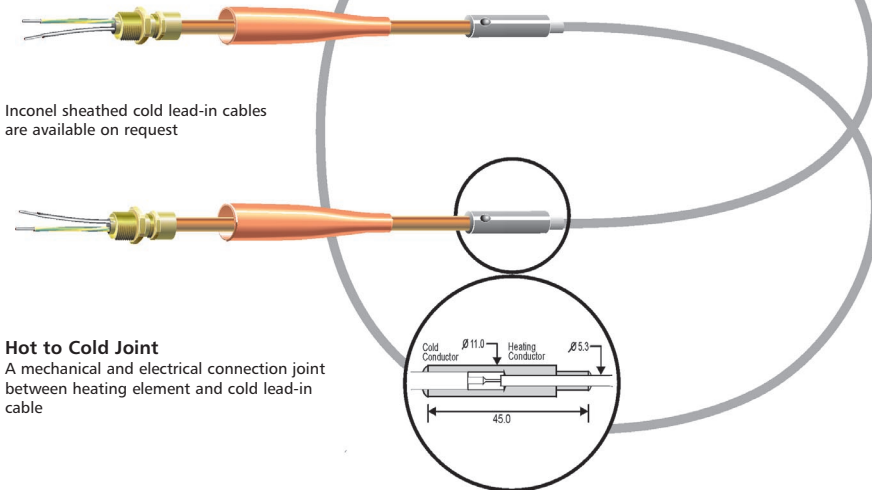
Heating Cable Reference	XIN/10	XIN/6.3	XIN/4	XIN/2.5	XIN/1.6	XIN/1	XIN/0.63	XIN/0.4	XIN/0.25	XIN/0.16		
Cable Diameter (mm)	3.2	3.2	3.2	3.6	3.8	4.1	4.5	5.0	5.6	6.5		
Resistance (ohms/metre)	10	6.3	4	2.5	1.6	1	0.63	0.40	0.25	0.16		
Production Coil Length (Mtrs)	350	350	350	260	230	200	170	140	110	80		
Weight 1000 Metres (Kg)	37	38	38	45	51	61	76	94	125	190		
Sheath Area per metre (sq cm)	100.54	100.54	100.54	113.11	119.4	128.8	141.4	157	176	204.23		
Recommended maximum power output at given surface temperatures	SURFACE TEMPERATURES	100 Deg.C	170	170	190	214	226	243	268	298	332	387
		200 Deg.C	144	144	160	180	190	204	225	251	280	326
		300 Deg.C	108	108	120	135	142	153	169	188	210	243
		400 Deg.C	60	60	70	79	83	89	98	109	122	142
		500 Deg.C	15	15	20	22	23	25	28	31	35	40

Recommended maximum power output at given surface temperatures in watts per metre of cable is based on a sheath operating temperature of approx 550°C

The majority of mineral insulated heating units are designed to dissipate approximately 100 watts per metre of cable to ensure longevity of service. With high watts/metre output of cable the M.T.B.F is reduced

Cold Lead-In Cable

A mineral insulated power cable with a brass compression gland termination



Inconel sheathed cold lead-in cables are available on request

Hot to Cold Joint

A mechanical and electrical connection joint between heating element and cold lead-in cable

Extended Range of Inconel Sheathed Cables for very long circuits

Cable Ref:	Ohms/Metre	Cable Dia.
XIN/SC/063	0.063	3.2
XIN/SC/040	0.040	3.4
XIN/SC/025	0.025	3.7
XIN/SC/017	0.017	4.6
XIN/SC/011	0.011	4.9
XIN/SC/007	0.007	5.3
XIN/SC/004	0.004	5.9

Securement / Fixings

PIPEWORK

- ≤ 150mm n.b. - Stainless Steel Tie wire
- > 150mm n.b. - Stainless Steel Banding

VESSELS AND TANKS

- Circular
Pre-punched fixing or stainless steel band
- Rectangular & Flat Surfaces
Weldmesh grids or pre-punched fixing band



CROSS ELECTRICAL (NOTTINGHAM) LTD

Trace Works, Debdale Lane, Keyworth, Nottingham, NG12 5HN

Tel: +44 (0)115 937 5121 Fax: +44 (0)115 937 5116

E-mail: heat@cross-electrical.co.uk Website: www.cross-electrical.co.uk

