

XSS/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	AISI Type 310
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

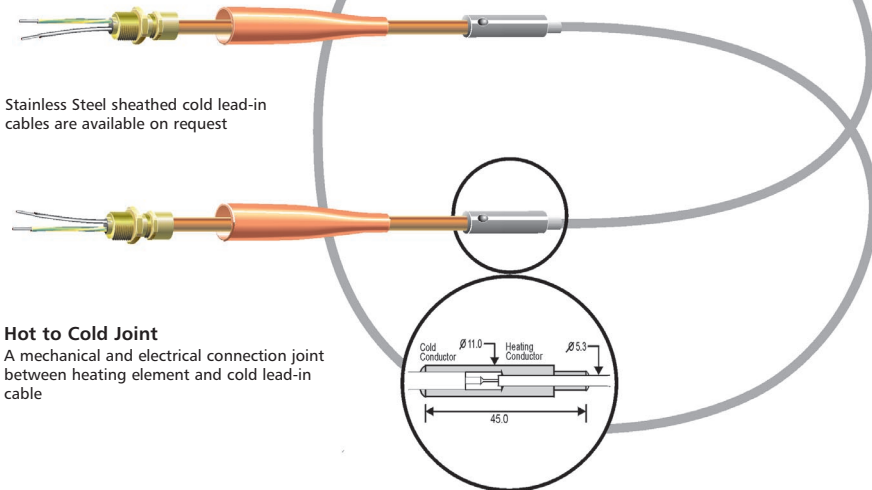
Heating Cable Reference	XSS/10	XSS/6.3	XSS/4	XSS/2.5	XSS/1.6	XSS/1	XSS/0.63	XSS/0.4	XSS/0.25	XSS/0.16		
Cable Diameter (mm)	3.2	3.2	3.2	3.4	3.6	3.9	4.3	4.7	5.3	6.5		
Resistance (ohms/metre)	10	6.3	4	2.5	1.6	1	0.63	0.40	0.25	0.16		
Production Coil Length (Mtrs)	350	350	350	260	230	200	170	140	110	80		
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	106.82	113.11	122.53	135.10	147.67	166.52	204.23		
Recommended maximum power output at given surface temperatures	SURFACE TEMPERATURES	100 Deg.C	135	135	150	160	170	180	200	220	250	300
		200 Deg.C	100	100	110	115	125	135	155	160	180	220
		300 Deg.C	60	60	70	74	80	85	98	100	115	140
		400 Deg.C	25	25	30	32	34	36	40	45	50	60
		500 Deg.C	5	5	5	5.6	5.6	6.7	7	7.3	8.3	10

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



Stainless Steel 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 Stainless Steel Sheathed Cables for very long circuits

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



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