

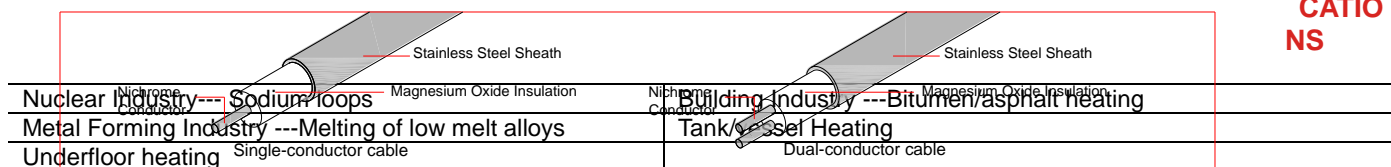
## MISS

## Stainless Steel Sheathed Mineral Insulated Heating Cable

### INTRODUCTION

The MISS range of stainless steel sheathed Mineral Insulated (MI) heating cable has been developed to meet the specific need for a cable having a high temperature capability and electrical resistance values needed for long circuit lengths. To meet the requirement, It's combined a stainless steel sheath with heating conductors to enable an operating temperature of 600°C with resistance values from 28000Ω/km down to 19.2Ω/km. MI cables have excellent mechanical strength and are resistant to corrosion. They are series resistance heaters which must be designed to provide the required heat output.

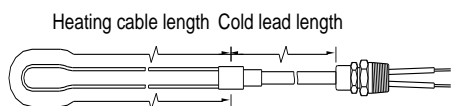
### CABLE CONSTRUCTION



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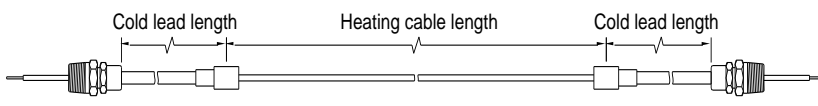
**TABLE 1 CABLE CONFIGURATIONS**

Design A



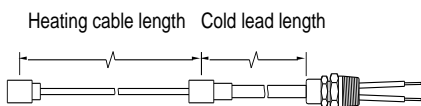
Design A: for single conductor cables only

Design B



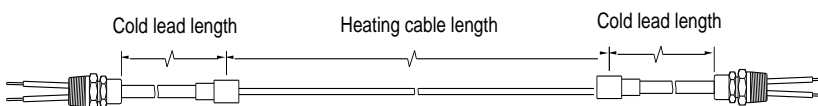
Design B: for single conductor cables only

Design D



Design D: for dual conductor cables only

Design E



Design E: for dual conductor cables only

**TABLE 2 CABLE REFERENCES (SINGLE CONDUCTOR 600V)**

CABLE REF	DIAMETER	RESIET. at 20 °C	NOMINAL LENGTH	NOMINAL WEIGHT
	mm	$\Omega$ /m	m	kg/km
16K192	8.7	0.0192	88	406.9
16K240	8.2	0.0240	93	348
16K300	7.4	0.0300	110	278.5
16K369	7.0	0.0369	121	242.3
16K480	6.5	0.0480	144	204.9
16K600	6.1	0.0600	169	179.1
16K800	5.7	0.0800	236	152.1
16K1200	4.9	0.1200	280	102.5
16K1600	4.6	0.1600	324	88.4
16K1920	4.4	0.1920	350	81
16K2400	4.2	0.2400	365	73.3
16K3200	4.0	0.3200	385	65.2
16K4800	3.7	0.4800	436	56.4
16N7333	4.0	0.7333	118	65.2
16N9167	3.8	0.9167	128	60
16N12220	3.7	1.2220	140	54.5
16N15710	3.5	1.5710	150	50.5
16N24444	3.4	2.4444	168	45.1
16N44000	3.2	4.4000	187	40
16N122220	2.9	12.2220	217	34.7
16N275000	2.8	27.5000	238	32.3

**TABLE 3 CABLE REFERENCES (DUAL CONDUCTOR 600V)**

CABLE REF	DIAMETER	RESIET. at 20 °C	NOMINAL LENGTH	NOMINAL WEIGHT
	mm	$\Omega$ /m	m	kg/km
26N11700	8.7	1.1700	180	216
26N15500	7.2	1.5500	195	203
26N24000	5.0	2.4000	234	178
26N41500	3.8	4.1500	280	160
26N110000	2.9	11.0000	300	152
26N280000	2.1	28.0000	350	140

**TABLE 4 CABLE REFERENCES (DUAL CONDUCTOR 300V)**

CABLE REF	DIAMETER	RESIET. at 20 °C	NOMINAL LENGTH	NOMINAL WEIGHT
	mm	$\Omega$ /m	m	kg/km
23N11700	7.9	1.1700	230	146
23N15500	6.3	1.5500	245	133
23N24000	4.1	2.4000	284	108
23N41500	2.9	4.1500	340	90
23N110000	2.0	11.0000	350	82
23N280000	1.3	28.0000	400	70

**Note:** For the required voltage 600 V above application, please contact us.

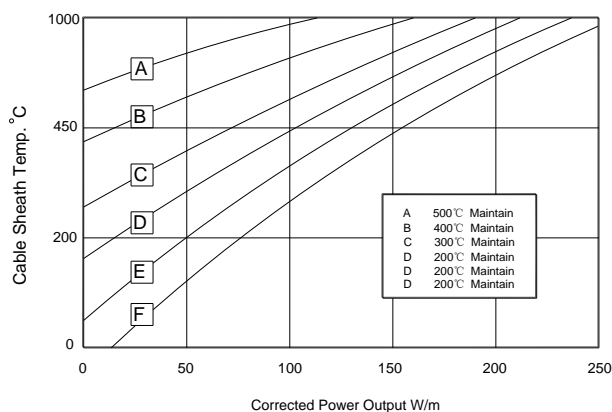
**TABLE 5 GLAND SIZE**

Max. voltage (V)	Design A, D, E			Design B		
	Max. current (amps)	Gland size (English)	Gland size (Metric)	Max. current (amps)	Gland size (English)	Gland size (Metric)
600	15	E1	M1	20	E1	M1
600	20	E1	M1	25	E1	M1
600	30	E2	M2	40	E2	M2
600	50	E2	M2	70	E2	M2
600	70	E2	M2	100	E2	M2

**Note1:** E1 stands for 1/2" NPT; E2 stands for 3/4" NPT; M1 stands for gland diameter M15; M2 stands for gland diameter M20

**Note2:** 2-meter-long cold lead is supplied with heating cable. For special requirement, please contact us.

**POWER OUTPUT vs. SHEATH TEMPERATURE**



**CORROSION RESISTANCE**

SUBSTANCE	
Sulphuric Acid	Not Recommended
Hydrochloric Acid	Not Recommended
Hydrofluoric Acid	Not Recommended
Phosphoric Acid	Not Recommended
Nitric Acid	Check for Specific Data
Organic Acid	Suitable under Most Conditions
Alkalis	Acceptable
Sea Water	Not Recommended
Chloride	Not Recommended

CIN : U29119GJ2002PTC041475; Mail : [sales@sensewellindia.com](mailto:sales@sensewellindia.com); Web. : [www.sensewellindia.com](http://www.sensewellindia.com)