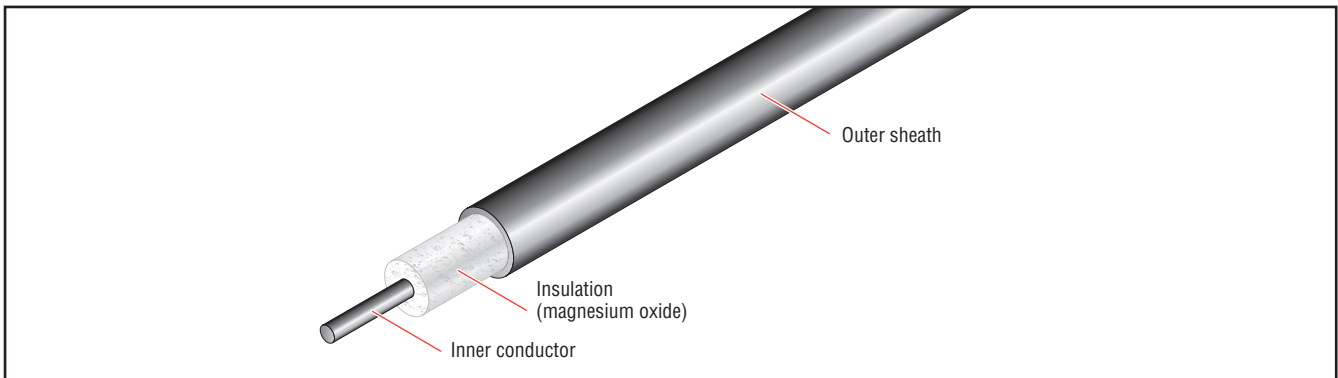


Mineral insulated heating cable units

Isopad IMI-KMIN is a preterminated, mineral insulated heating cable consisting of a nickel chrome 8020 heating element and an Inconel 600 (2.4816) metal sheath. The connection joints between heating cable and cold ends are welded using heavy-duty lasers.

At heating conductor temperatures up to 1000°C, this cable is mainly used for heating elements with special forms, pipe trace heating in the chemical industry, form/platen heating, container heating, and special heaters for aqueous solutions.

The heating cable is watertight and can be used under both high pressure and vacuum conditions. It is ideally suited for transferring large thermal volumes since a high per metre load is possible under appropriate conditions.



Area Specifications

Area classification	Nonhazardous, ordinary area
Ingress protection	IP68
Electrical protection class	Class I
Maximum withstand temperature (power off)	700°C (to 1000°C on request)
Minimum installation temperature	-60°C

Heater Construction

Type	Resistance heating cable
Material	Nickel-chrome-alloy
Material of heater insulation	Magnesium oxide (MgO)
Material of outer sheath	Inconel 600

Lead Connection

Glands	Standard M20
Connection lead length	0.5 m cold lead at each end. Other lengths possible on request

Technical Data

Maximum operating voltage	300 / 500 Vac
Maximum operating temperature	700°C (to 1000°C on request)
Minimum bend radius	6 x OD
Minimum spacing	25 mm

Ordering Information

Part number	Length ⁽¹⁾ (L) (mm)	Outer diameter ⁽²⁾ (OD) (mm)	Nominal power ⁽³⁾ (W)	Nominal voltage (Vac)
1235-04582007	3100	3.2	620	110
1235-04582010	5000	3.2	1058	230
1235-04582011	6000	3.2	1399	230
1235-04582012	7500	3.2	1763	230
1235-04582013	10000	3.4	2116	230
1235-04582014	12500	3.6	2645	230
1235-04582015	15500	3.9	3413	230
1235-04582016	19500	4.3	4306	230
1235-04582018	31000	5.3	6826	230
1235-04582019	41000	6.5	8132	230

⁽¹⁾ Tolerances <2000 mm $\pm 1\%$ & ± 0.05 m (cold lead $\pm 10\%$)
>2000 mm $\pm 2\%$ & ± 0.1 m (cold lead $\pm 10\%$)

⁽²⁾ Tolerances + 0.03 mm / - 0.05 mm

⁽³⁾ Tolerances $\pm 10\%$

Nonstandard lengths and loadings can be designed on request; for example, IMI-KMIN MINI is a small diameter preterminated unit with alternate connection types. We also have a version available for hazardous areas: FIMI-FMIN.

Withstand tolerances $\pm 10\%$

IMI-KMIN cable reference	Nominal Resistance (Ω/m at 20°C)	Cable Diameter (mm)	Approx Weight (kg/km)
	10.00	3.2	39
	6.30	3.2	39
	4.00	3.2	39
	2.50	3.4	46
	1.60	3.6	52
	1.00	3.9	62
	0.63	4.3	78
	0.40	4.7	96
	0.25	5.3	127
	0.16	6.5	191

Resistance tolerances $\pm 10\%$

IMI-KMIN cold lead table	Cross section	Diameter (mm)	Current rating (A)	Sheath material	Standard gland size
	2.5	4.9	34.0	Icannel	M20
	6.0	6.1	57.0	Icannel	M20
	10.0	7.2	77.0	Icannel	M25

Brass glands are standard on all heating units.

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