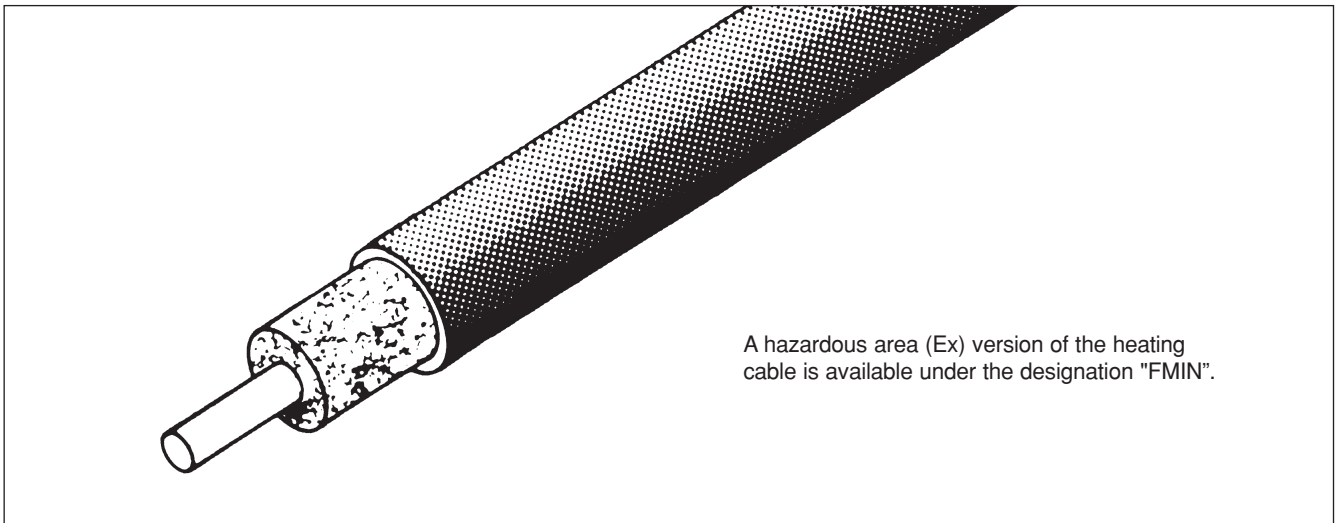


Mineral insulated heating cable (for non hazardous area use)

KMIN is a preterminated, mineral insulated heating cable consisting of a NiCr 8020 heating element and an Inconel 600 (2.4816) metal sheath. The connection joints between heating cable and cold ends are welded using in heavy duty laser technology.

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 both under 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.



A hazardous area (Ex) version of the heating cable is available under the designation "FMIN".

Outer diameter (OD) 3.2 mm to 6.5 mm

Specification

Supply voltage	< 800 V AC
Area classification	Non hazardous
System of protection	IP 68, watertight
Max. withstand temperature (power off)	1000°C
Max. withstand temperature (power on)	Depending on power, for example 800°C at 200 W/m
Max. heating conductor temperature	1000°C
Max. surface temperature	1000°C
Bending radius	≥ 6 x OD
Spacing	≥ 2 x OD

Construction

Heating element	NiCr 8020
Electrical insulation	MgO
Outer sheath	Inconel 600 (2.4816)

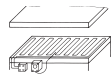
Termination

Cold end	2 x 0.5 m Inconel (standard)
Gland	PG 11 / M 20 (optional)
Leadwire	150 mm

Standard lengths and loadings table

	Length (m)	OD (mm)	Watts	Nominal voltage V AC	Part No.
Nominal power output approx. 100 W/m	1.3	3.2	135	42	740 320-000
	1.9	3.2	190	60	984 128-000
	3.5	3.2	345	110	231 580-000
	5.5	3.2	550	110	059 412-000
	7.0	3.2	750	230	485 916-000
	9.0	3.2	930	230	328 022-000
	11.0	3.2	1200	230	239 384-000
	14.0	3.6	1510	230	670 860-000
	17.5	3.8	1890	230	083 804-000
	22.0	4.1	2400	230	392 568-000
	35.0	5.0	3780	230	777 564-000
	44.0	5.6	4800	230	219 206-000
Nominal power output approx. 200 W/m	1.0	3.2	180	42	208 740-000
	1.2	3.2	240	42	941 998-000
	1.3	3.2	280	60	033 332-000
	1.7	3.2	340	60	737 594-000
	2.1	3.2	420	60	677 186-000
	2.5	3.2	480	110	716 558-000
	3.1	3.2	620	110	653 410-000
	3.9	3.2	780	110	580 442-000
	4.9	3.6	980	110	104 854-000
	5.0	3.2	1060	230	132 868-000
	6.0	3.2	1400	230	676 552-000
	7.5	3.2	1760	230	007 006-000
	10.0	3.6	2120	230	496 928-000
	12.5	3.8	2640	230	058 668-000
	15.5	4.1	3400	230	937 670-000
	19.5	4.5	4300	230	706 978-000
	24.5	5.0	5400	230	260 630-000
	31.0	5.6	6830	230	317 924-000

Other lengths and power specifications etc. available upon request.

Installation example


Platen heating on a vulcanising or veneering press



Special immersion heater

Ordering details

Part description	KMIN
Part No.	See table above

www.isopad.de

www.tycothermal.com

Isopad – a brand of Tyco Thermal Controls GmbH.

Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Tyco Thermal Controls makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Thermal Controls' only obligations are those in the Tyco Thermal Controls Standard Terms and Conditions of Sale for this product, and in no case will Tyco Thermal Controls or its distributors be liable for any incidental, indirect or consequential damages arising from the sale, resale, use or misuse of the product. Specifications are subject to change without notice. In addition, Tyco Thermal Controls reserves the right to make changes, without notification to the Buyer, to processing or materials that do not affect compliance with any applicable specification. Issuing a new publication all previous loose their validity!

Flow Control

Tyco Thermal Controls

Tyco Thermal Controls GmbH
Englerstr. 11
D-69126 Heidelberg
Phone +49 (0) 62 21 30 43-0
Fax +49 (0) 62 21 30 43-956
Info-Isopad-DE@Tycothermal.com

Tyco Thermal Controls
Staatsbaan 4A
B-3210 Lubbeek
Phone +32 (0) 16-2135 11
Fax +32 (0) 16-2136 00

Tyco Thermal Controls Limited
3 Rutherford Road,
Stephenson Industrial Estate,
GB-Washington,
Tyne and Wear NE37 3HX
Phone +44 (0) 191 419 8200
Fax +44 (0) 191 419 8201
Info-Isopad-GB@Tycothermal.com

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