

ISM VA/CuNi (System QX-SH)

Electrical heating tape for temperature maintenance of pipework and vessels in hazardous area.



Constant Wattage Heating Tape Ex

650°C



- Temperature resistant up to 650°C (depending on version)
- Extremely high output possible
- High chemical resistance
- Large range of approvals
- Also available as ready-to-use heating circuit

Description

The mineral-insulated heating cable ISM is due to their structure very sturdy and safe for use in industrial and hazardous environments. The different types of Jackets are highly resistant to chemical attack.

The specific resistance of ISM will cause the power output increases or decreases by changing the length of the heating cable.

The heating cable will be soldered or laser-welded with connection sleeves to special cold-ends (Standard length 1,2m).

Depending on the application and temperature requirements, various outer jackets made of stainless steel, Cupronickel or Incoloy are available.

Technical Data

Rating Voltage:	500V
Testing Voltage:	>1,2kV
Material Heat Conductor:	Copper, Chromium-Nickel, Constantan
Insulation:	Magnesium-oxide
Min. Installation Temperature:	-20°C
Min. Bending Radius:	3 x outer Dia. or 5 x outer Dia. (Ex)

Approval

Component:	upon request
System:	ATEX



Resistance Chart ISM

Part Number CuNi	Ohm/km at 20°C	Material Conductor	Outer Diameter (mm)	Resistance Outerjacket (Ohm/km)
ISM0011CuNi	11.00	Copper	4.90	58.30
ISM0017CuNi	17.00	Copper	4.60	65.60
ISM0025CuNi	25.00	Copper	3.70	93.30
ISM0040CuNi	40.00	Copper	3.40	107.60
ISM0063CuNi	63.00	Copper	3.20	121.00
ISM0160CuNi	160.00	Constantan	4.90	58.81
ISM0250CuNi	250.00	Constantan	4.40	71.99
ISM0400CuNi	400.00	Constantan	4.00	87.69
ISM0630CuNi	630.00	Constantan	3.70	103.10
ISM1000CuNi	1000.00	Constantan	3.40	123.00
ISM1600CuNi	1600.00	Constantan	3.20	139.60

Part Number Stainless Steel	Ohm/km at 20°C	Material Conductor	Outer Diameter (mm)	Resistance Outerjacket (Ohm/km)
ISM0160VA	160.00	Chromium-Nickel	4.04	92.38
ISM0250VA	250.00	Chromium-Nickel	3.95	137.60
ISM0400VA	400.00	Chromium-Nickel	3.97	173.70
ISM0630VA	630.00	Chromium-Nickel	3.96	152.40
ISM1000VA	1000.00	Chromium-Nickel	3.95	187.00
ISM1600VA	1600.00	Chromium-Nickel	3.87	215.30
ISM2500VA	2500.00	Chromium-Nickel	3.99	235.80
ISM4000VA	4000.00	Chromium-Nickel	3.78	284.20
ISM6300VA	6300.00	Chromium-Nickel	3.89	284.20
ISM10k0VA	10000.00	Chromium-Nickel	4.03	284.20

Further resistance values available upon request.