

# Metal Outer Jacket Fibreglass-Insulated Cable MOIC-F

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High temperature metal overjacket industrial cable for heating pipelines, vessels and process equipment.

Heating cable MOIC-F is specially designed to be an effective and reliable solution where high operating temperature has to be maintained when thermal conditions are high (for example, for heating of bitumen facilities and pipelines).

Due to high thermal stability of the fiberglass insulation, MOIC-F cable can be used where outer jacket temperature reaches up to +800 °C.

MOIC-F cable has an excellent mechanical strength and high corrosion stability, it is fire-resistant, safe in operation and can be used in corrosive environments and explosion hazardous areas.

Correct calculation of the electric heating cable system power output makes it possible to use MOIC-F in a wide temperature range.

The cable is supplied as ready-made sections that consist of the heating cable, connection couplings, installation wires, cable entries and flexible installation wires.

## Features

- Operating temperature up to +800 °C
- High mechanical resistance
- Ex-approved solution
- Can be used in chemically aggressive and corrosive environments
- Wide range of controls and accessories

## Application Areas

- Temperature maintenance in non-hazardous and ex-hazardous areas, extra-high thermal conditions, chemically aggressive environments



## Construction

1. Series-resistance heating wire
2. Fiberglass insulation
3. Stainless steel\*\* outer jacket (plain or corrugated)

\*\* Other jacket materials available on request (Cu, Incoloy etc)

## Approvals



\* Certification is underway

# Extra-High Temperature Series-Resistance Cables

## Technical Data

Maximum exposure temperature	for MOIC HT series	+800 °C
	for MOIC LT series	+650 °C
Minimum installation temperature		-70 °C
Rated voltage		Up to 670 VAC
Maximum power output		300 W/m
Minimal bending radius	for plain outer jacket cable	40 mm
	for corrugated outer jacket cable	30 mm

## Marking, Heating Cable

Example: MOIC-F-170-SA/2-HT

① ② ③ ④ ⑤

1. Cable name (Metal Outer jacket Industrial Cable, Fiberglass)
2. Resistance, Ohm/km
3. Outer jacket type (SA = steel annealed, SU = steel non-annealed)
4. Outer jacket shape (1 = plain surface, 2 = corrugated surface)
5. Thermal resistance (HT = +800 °C, LT = +650 °C)

## Marking, Heating Sections

Example: 30MOIC-F2-170-HSA/2-0510/020

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

1. Linear power output, W/m
2. Cable name (Metal Outer jacket Industrial Cable, Fiberglass)
3. Rated voltage (2 = 230 VAC)
4. Resistance, Ohm/km
5. Temperature group and outer jacket type (H = high temperature, L = low temperature, SA = steel annealed, SU = steel non-annealed)
6. Outer jacket shape (1 = plain surface, 2 = corrugated surface)
7. Hot cable length, dm
8. Cold fragment length on every side, dm

## Types

Cable name	Nominal resistance (Ohm/km) at +20 °C	Order code
MOIC-F-170-SA/1-HT	170	3202003000
MOIC-F-230-SA/1-HT	230	3202003001
MOIC-F-440-SA/1-HT	440	3202003002
MOIC-F-620-SA/1-HT	620	3202003003
MOIC-F-890-SA/1-HT	890	3202003004
MOIC-F-1400-SA/1-HT	1400	3202003005
MOIC-F-2500-SA/1-HT	2500	3202003006
MOIC-F-3600-SA/1-HT	3600	3202003007
MOIC-F-170-SU/2-LT	170	3202003008
MOIC-F-230-SU/2-LT	230	3202003009
MOIC-F-440-SU/2-LT	440	3202003010
MOIC-F-620-SU/2-LT	620	3202003011
MOIC-F-890-SU/2-LT	890	3202003012
MOIC-F-1400-SU/2-LT	1400	3202003013
MOIC-F-2500-SU/2-LT	2500	3202003014
MOIC-F-3600-SU/2-LT	3600	3202003015
MOIC-F-170-SU/2-HT	170	3202003016
MOIC-F-230-SU/2-HT	230	3202003017
MOIC-F-440-SU/2-HT	440	3202003018
MOIC-F-620-SU/2-HT	620	3202003019
MOIC-F-890-SU/2-HT	890	3202003020
MOIC-F-1400-SU/2-HT	1400	3202003021
MOIC-F-2500-SU/2-HT	2500	3202003022
MOIC-F-3600-SU/2-HT	3600	3202003023
MOIC-F-170-SA/2-HT	170	3202003024
MOIC-F-230-SA/2-HT	230	3202003025
MOIC-F-440-SA/2-HT	440	3202003026
MOIC-F-620-SA/2-HT	620	3202003027
MOIC-F-890-SA/2-HT	890	3202003028
MOIC-F-1400-SA/2-HT	1400	3202003029
MOIC-F-2500-SA/2-HT	2500	3202003030
MOIC-F-3600-SA/2-HT	3600	3202003031