

At a Glance

Applications









- > Chemistry and Petrochemistry
- Oil and Gas Industry
- Industrial processes
- > Mobile processing facilities
- > Vacuum processess

Benefits

- ▶ 100% homogeneous design
- > No filling holes
- **>** High temperature resistance
- Maximum resistance to chemicals
- > High power output
- **>** Protection against stress corrosion
- > Resistant against moisture

Approvals









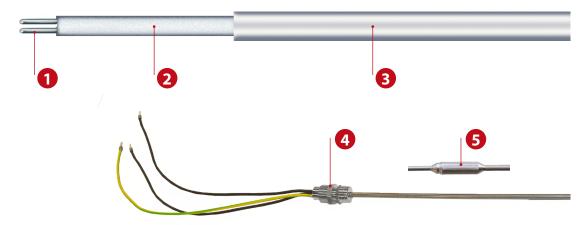


Classification
II 2 G Ex 60079-30-1 db eb IIC Gb
II 2 D Ex 60079-30-1 tb IIIC Db

Certification
FM15ATEX0046X
FM18US0191X
FM18CA0089X
IECEx FME 15.0009X

ELK-MIVA

up to 700 °C, twin conductor



1 Bus wire (TWIN)	Nichrome R, KP, Constantan, Alloy 60 or Copper
2 Insulation	Magnesium oxide (MgO) acc. ASTM E1652-Standard
3 Outer jacket	Stainless steel 1.4541 (AISI 321)
4 Cable gland	Stainless steel M20 x 1.5 / M25 x 1.5
5 Connection	Laser welded, pressed

Manufactured and assembled exclusively from premium nickel/chrome Alloy 825 or stainless steel 1.4541. eltherm's revolutionary Clean Laser Seal technology (CLS) guarantees high output and reliability in all industrial applications. This technology offers the technologically best possible protection against stress corrosion, especially with aggressive chemicals such as leachable chlorides or high sulphur content. MI trace heating consists of one- or two-wire heating cables and mineral-insulated cold conductor connections with Clean Laser Seal connection. The free end of the cold conductor is sealed seamlessly and connected with a flexible supply line.

Checklist

Junction boxes ELAK-6-SP 220 x 120 x 90 mm, ALU, up to 3 heating cables, 6x M20, 1x M25 MDA0002 ELAK-3-SP 122 x 120 x 90 mm, ALU, up to 1 heating cable, 1x M25, 2x M20 MDA0003 ELAK-5-SP 122 x 120 x 90 mm, ALU, up to 2 heating cables, 1x M25, 4x M20 MDA0005

Temperature-resistant power connection line

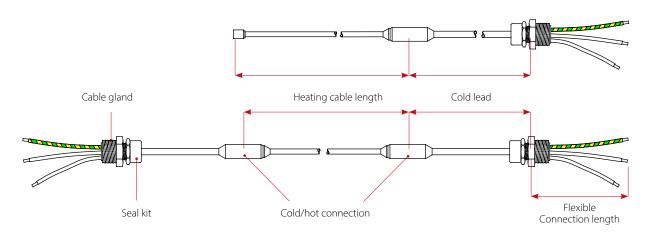
Power connection line VA, **TWIN**, 400 V, 2 * 1.5 mm², Ø 7.5 mm 20330K0025

Factory assembly

ELVB-MI-VA-**T**-1,5mm² Laser welded, **TWIN** 1.5 mm² MAG0002

eltherm®

Rated temperature	up to 700 °C (565 °C in hazardous areas accord. Ex certificate)
Ambient temperature	-60 °C up to +60 °C
Nominal output	up to 250 W/m *
Nominal voltage	up to 500 V AC
Min. Bending radius	Diameter x 6
Min. Installation temperature	− 60 °C
Protective conductor connection	Protective connection integrated
Protection rating / protection class	IP65 / Protection class I
Power connection line	1/2 x 0.50 m



Heating cable data

Nominal resistance	Outer Ø	Bending radius	
			ArtNo.
[Ω/km @ 20°C]	[mm]	[mm]	
36000	3.7	22	2033003600
24600	4.0	24	2033002461
19680	3.8	23	2033001968
13120	4.4	26	2033001312
9840	5.1	31	2033000984
6600	5.0	30	2033000660
4600	5.3	32	2033000460
3200	4.0	24	2033000320
2460	5.0	30	2033000246
1600	4.7	28	2033000162
1000	4.4	26	2033000102
750	5.1	37	2033000075
330	6.7	40	2033000033

NOTE

- ➤ The output per meter of heating cable and the maximum possible operating temperatures depend on the respective application. For individual cases, we recommend that you contact our engineers – we will be pleased to advise you.
- An excerpt from the possible resistances is listed here. Additional cold conductor diameters are also available. Please feel free to contact us!
- **>** Cables shall neither intersect nor contact.
- > Provide protection by means of circuit breaker FI 30. mA
- Please observe the standards IEC 62395-2, EN 60519-10.