- High constant power output per metre
- Extremely high mechanical strength
- Highly resistant to chemicals

A distinguishing feature of our BARTEC EMK heating cables is that they are extremely robust and require no additional protection against mechanical influences.

Function
The application of a supply voltage to the resistance cable generates heat. The quantity of heat is dependent on the resistance value of the heating cable and the supply voltage.

Explosion protection

Marking	Ⓔx II 2G Ex e IIC T1 to T6 Gb
Certification	Sira 13 ATEX 3363
Other approvals and certificates, see www.bartec.de	

Technical data

Structure	heating element: copper, chromium nickel, constantan insulation: magnesium Oxide (MgO) outer jacket: stainless steel no. 1.4541 CuNi or Alloy 825/Inconel
Heating circle with EMK	Ex version: Type 27-3621-02../.... Type 27-3621-04../.... Standard version: Type 27-3623-02../.... Type 27-3623-04../....
Nominal voltage	up to 500 V
Test voltage	1.5 kV
Min. installation temperature	-20 °C
Bend radius	3 x OD (Standard version) 5 x OD (Ex version)
Weight	100 to 180 g/m²
Max. jacket withstand temperature	Alloy 825/Inconel +650 °C (on request) S/S no. 1.4541 +600 °C CuNi +400 °C

Ordering information CuNi

Short form title	Ω/km at +20 °C	Conductor material	Outer diameter (mm)	Outer jacket resistance Ω/km	Order no.
EMK CuNi 0011	11	Copper	4.9	58.30	**27-3833-20490011**
EMK CuNi 0017	17	Copper	4.6	65.60	**27-3833-20460017**
EMK CuNi 0025	25	Copper	3.7	93.30	**27-3833-20370025**
EMK CuNi 0040	40	Copper	3.4	107.60	**27-3833-20340040**
EMK CuNi 0063	63	Copper	3.2	121.00	**27-3833-20320063**
EMK CuNi 0160	160	Constantan	4.9	58.81	**27-3833-20490160**
EMK CuNi 0250	250	Constantan	4.4	71.99	**27-3833-20440250**
EMK CuNi 0400	400	Constantan	4.0	87.69	**27-3833-20400400**
EMK CuNi 0630	630	Constantan	3.7	103.10	**27-3833-20370630**
EMK CuNi 1000	1000	Constantan	3.4	123.00	**27-3833-20341000**
EMK CuNi 1600	1600	Constantan	3.2	139.60	**27-3833-20321600**

Ordering information VA No. 1.4541

Short form title	Ω/km at +20 °C	Conductor material	Outer diameter (mm)	Outer jacket resistance Ω/km	Order no.
EMK VA 0160	160	Chromium Nickel	6.5	92.38	**27-3834-20650160**
EMK VA 0250	250	Chromium Nickel	5.3	137.60	**27-3834-20530250**
EMK VA 0400	400	Chromium Nickel	4.7	173.70	**27-3834-20470400**
EMK VA 0630	630	Chromium Nickel	4.3	152.40	**27-3834-20430630**
EMK VA 1000	1000	Chromium Nickel	3.9	187.00	**27-3834-20391000**
EMK VA 1600	1600	Chromium Nickel	3.6	215.30	**27-3834-20361600**
EMK VA 2500	2500	Chromium Nickel	3.4	235.80	**27-3834-20342500**
EMK VA 4000	4000	Chromium Nickel	3.2	284.20	**27-3834-20324000**
EMK VA 6300	6300	Chromium Nickel	3.2	284.20	**27-3834-20326300**
EMK VA 10K0	10000	Chromium Nickel	3.2	284.20	**27-3834-203210K0**

Technical data subject to change without notice.