

# CE Ex Self-regulating heating cable up to 110 °C with braided metal sheath and TPC overjacket

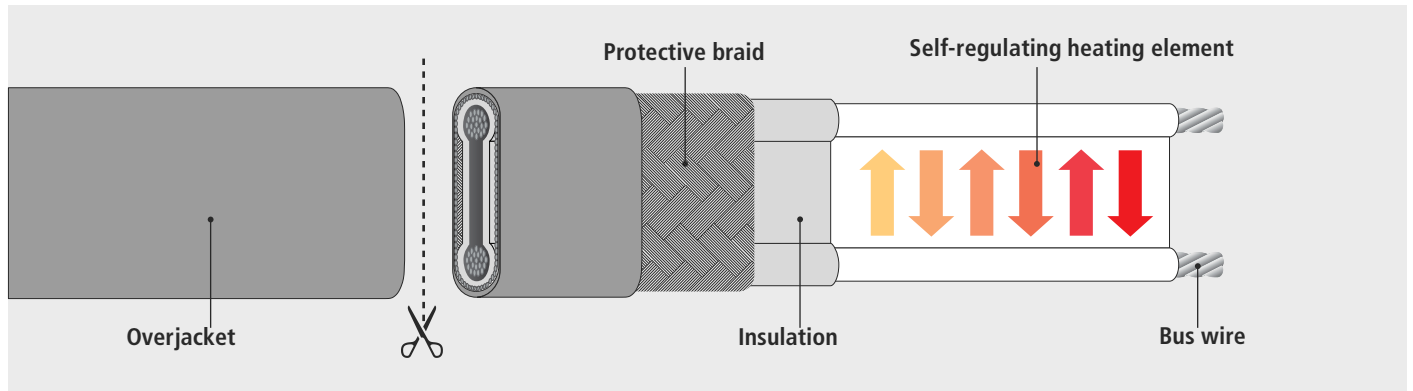
## Application

**AKO-7124x** self-regulating heating cables are suitable for freeze protection and process temperature maintenance, up to 110 °C. TPC overjacket withstands oil, greases and most chemicals. The heating cable is approved for use in ordinary and hazardous areas.

## Typical applications

- Freeze protection
- Chemical & petrochemical industries
- Pipe heat tracing
- Vessels and tanks

## Construction



## Technical specifications

Bus wires	.....	Nickel plated copper
Protective braid	.....	Tinned copper
Maximum exposure temperature (power off)	Intermittent: .....	130 °C (1000 h)
	Continuous: .....	110 °C
Maximum exposure temperature (power on)	.....	110 °C
Rated voltage	.....	208 up to 254 V
Minimum bending radius	.....	25 mm
Minimum installation temperature	.....	-40 °C
Minimum start-up temperature	.....	-50 °C
Nominal weight	.....	120 g/m
Bus wire section	.....	1.25 mm <sup>2</sup>

	AKO-71241	AKO-71243	AKO-71245
<b>Type</b>	MSB 15	MSB 30	MSB 40
<b>Nominal output at 230 V</b>	15 W/m at 10 °C	30 W/m at 10 °C	40 W/m at 10 °C
<b>T-rating</b>	T3	T3	T3
<b>*Based on system approach</b>	T4	T4	T4
<b>Design</b>	Protective braid and a thermoplastic copolymer overjacket (TPC)		
<b>Dimensions approx.</b>	10.2 x 4.8 mm		

\* Heating cables are approved for the listed T-Class using the stabilized design method

Cable certifications and approvals

**Ex** KEMA 08ATEX0110 X  
 II 2G Ex e IIC 150 °C (T3), T4 Gb  
 II 2D Ex tb IIIC T 150 °C, T 130 °C Db

**IECEX** IECEX KEM 09.0083X  
 Ex e IIC 150 °C (T3), T4 Gb  
 Ex tb IIIC T 150 °C, T 130 °C Db

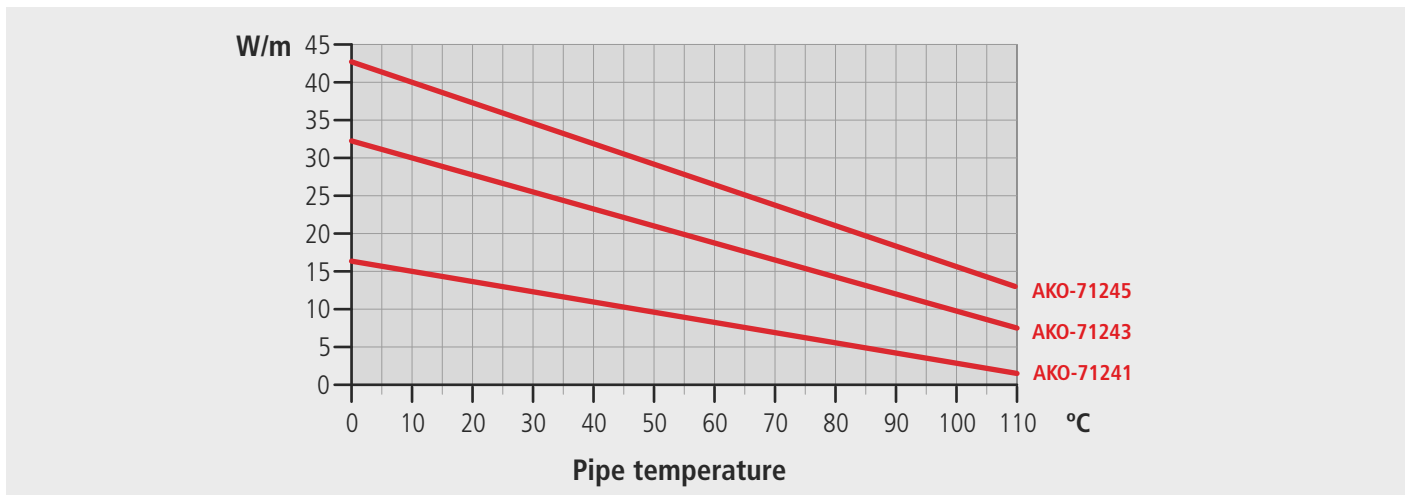
Circuit breaker selection

On the following conditions:

- 230 V nominal voltage
- Circuit breaker (C-characteristic)

	Start-up temperature	Maximum circuit length (m) per circuit breaker				
		10 A	16 A	20 A	25 A	32 A
AKO-71241	10 °C	89	165	189	189	189
	0 °C	83	148	175	185	189
	-10 °C	78	135	153	180	189
	-25 °C	75	117	152	170	189
	-50 °C	67	110	144	160	189
AKO-71243	10 °C	44	85	114	114	114
	0 °C	42	78	110	114	114
	-10 °C	40	73	102	110	114
	-25 °C	38	69	92	100	114
	-50 °C	34	65	86	92	110
AKO-71245	10 °C	32	70	82	82	82
	0 °C	30	64	77	82	82
	-10 °C	29	55	71	78	82
	-25 °C	28	49	66	75	82
	-50 °C	25	45	62	70	78

Nominal power output (On insulated steel pipes at 230 V)



Accessories

The appropriate kit should be used to make the connection and cable end sealing.



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