

**CE** **Ex** Self-regulating heating cable up to 65 °C with braided metal sheath and fluoropolymer or polyolefin overjacket

Application

**AKO-7121x** and **AKO-7121xP** self-regulating heating cables are suitable for freeze protection and process temperature maintenance, up to 65 °C. They may be applied on metal or plastic surfaces.

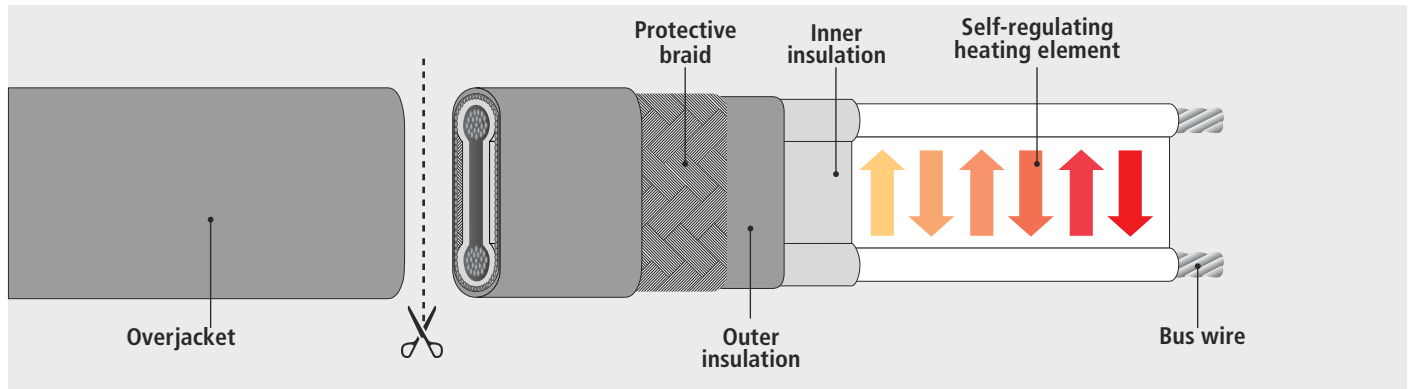
**AKO-7121x** with fluoropolymer overjacket withstands organic chemicals or corrosives and **AKO-7121xP** with modified polyolefin overjacket is appropriate when the heating cable is exposed to aqueous inorganic chemicals.

The heat cables are 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 and protective braid	.....	Tinned copper
Maximum exposure temperature (power off)	Intermittent: .....	85 °C (1000 h)
	Continuous: .....	65 °C
Maximum exposure temperature (power on)	.....	65 °C
Rated voltage	.....	208 up to 254 V
Minimum bending radius	.....	25 mm
Minimum installation and start-up temperature	.....	-55 °C
Nominal weight	.....	112 g/m
Bus wires section	.....	1.2 mm <sup>2</sup>

	AKO-71212	AKO-71214	AKO-71216	AKO-71218	AKO-71212P	AKO-71214P	AKO-71216P	AKO-71218P
<b>Type</b>	PSB 10	PSB 15	PSB 26	PSB 33	PSB 10	PSB 15	PSB 26	PSB 33
<b>Nominal output</b>	10 W/m at 10 °C	15 W/m at 10 °C	25 W/m at 10 °C	33 W/m at 10 °C	10 W/m at 10 °C	15 W/m at 10 °C	25 W/m at 10 °C	33 W/m at 10 °C
<b>T-rating</b>	T6	T6	T5	T5	T6	T6	T5	T5
<b>Design</b>	Protective braid and a fluoropolymer overjacket				Protective braid and modified polyolefin			
<b>Nominal dimensions</b>	11.6 x 5.6 mm				11.8 x 5.8 mm			

## Cable certifications and approvals

 KEMA 08ATEX0111 X  
 II 2G Ex e IIC T5, T6 Gb  
 II 2D Ex tb IIIC, T 95 °C, T 80 °C Db

**IECEX** IECEx KEM 09.0084X  
 Ex e IIC T5, T6 Gb  
 Ex tb IIIC, T 95 °C, T 80 °C Db

 Class I Div.2 Gr. A, B, C, D  
 Class II Div.2 Gr. E, F, G  
 Class III

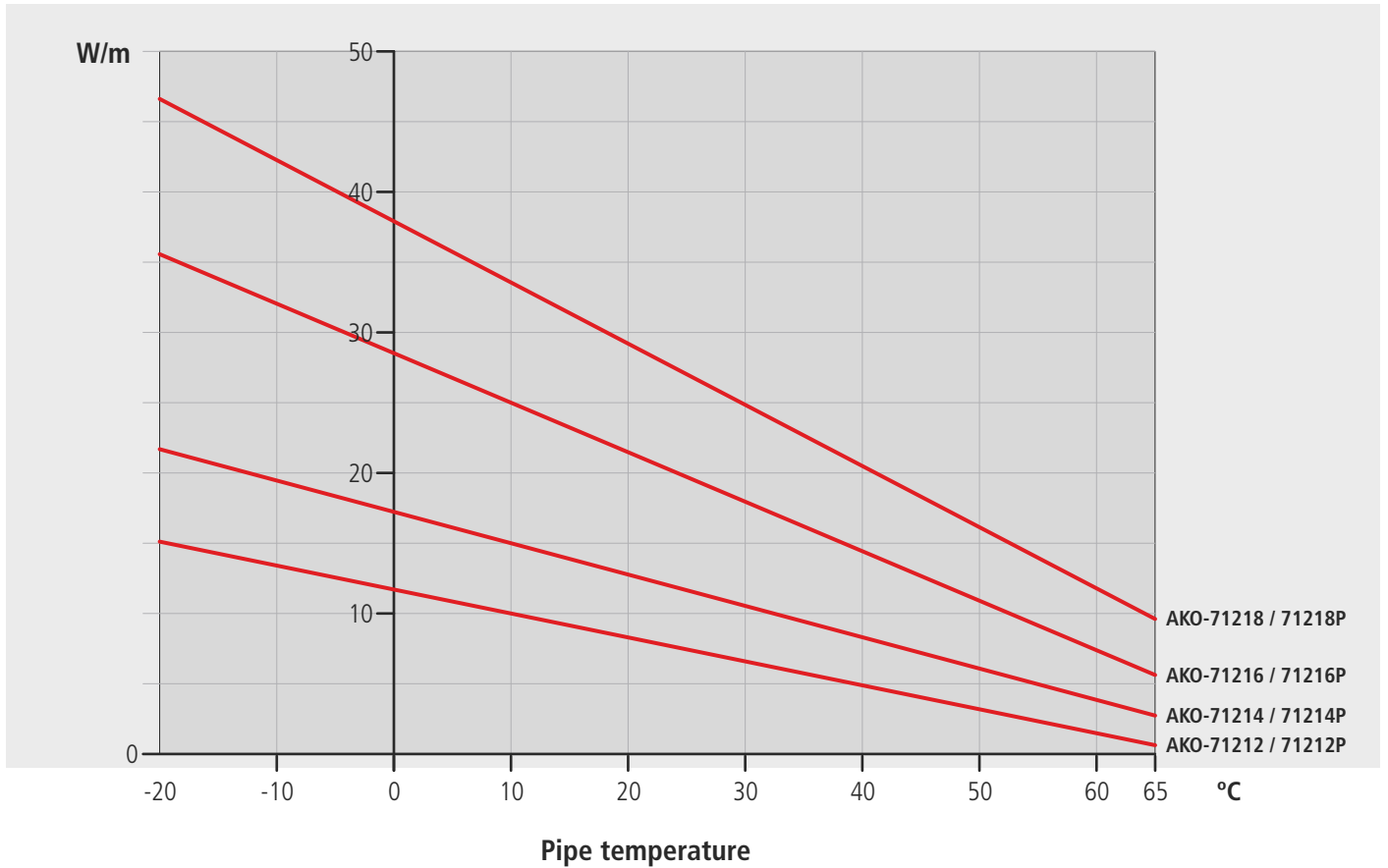
## Circuit breaker selection

On the following conditions:

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

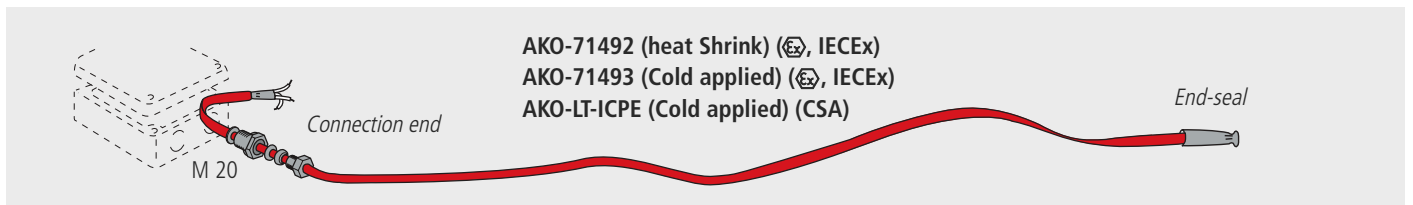
	Start-up temperature	Maximum circuit length (m) per circuit breaker				
		10 A	16 A	20 A	25 A	32 A
<b>AKO-71212 / AKO-71212P</b>	10 °C	116	205	205	205	205
	0 °C	103	160	200	205	195
	-10 °C	81	143	192	195	195
	-20 °C	72	130	168	180	195
	-30 °C	65	120	150	170	195
	-40 °C	58	110	132	160	180
<b>AKO-71214 / AKO-71214P</b>	10 °C	75	145	162	162	162
	0 °C	66	115	135	150	162
	-10 °C	59	100	128	144	162
	-20 °C	52	85	116	139	161
	-30 °C	48	77	106	135	160
	-40 °C	44	69	96	131	159
<b>AKO-71216 / AKO-71216P</b>	10 °C	60	88	117	120	126
	0 °C	52	70	85	120	126
	-10 °C	45	62	79	107	120
	-20 °C	41	52	70	89	109
	-30 °C	38	45	64	82	100
	-40 °C	35	38	58	75	91
<b>AKO-71218 / AKO-71218P</b>	10 °C	40	70	90	98	108
	0 °C	35	55	75	90	105
	-10 °C	31	50	68	82	98
	-20 °C	28	46	58	73	89
	-30 °C	25	43	52	65	82
	-40 °C	22	40	46	57	75

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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