

# Heating Cable

## Self regulating, medium temperature



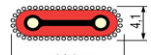
For freeze protection or temperature maintenance up to 150 °C. For use in pipes, valves, tanks, etc.

The two copper conductors are located within an extrusion of a semi-conductive polymer (ETFE) whose resistance varies with temperature. The characteristic is exploited to supply the required power in proportion to the process temperature and allows the cable to be overlapped without burning as the power reduces to almost zero as the polymer temperature limit is approached.

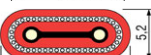
Poorly insulated cable or cable that cross insulation or voids will not be affected by such use. However it is important to ensure that the pipe temperature does not exceed the maximum exposure temperature of the cable either when operating or switched off.



Base (FEP jacket only)



Reinforced (FEP jacket + tinned-copper braid)



Anti-corrosion (FEP jacket + tinned-copper braid + fluoropolymer overjacket)

Power at +10 °C (W/m)			Hazardous Areas Class	Part Numbers		
230 V	220 V	240 V		Base	Reinforced	Anti-corrosion
9	8.2	9.8	T4	CRAR000042	-	-
15	13.7	16.3	T4	CRAR000043	CRAR000048	CRAR000053
24	22.0	21.6	T4	CRAR000044	CRAR000049	CRAR000054
31	28.4	33.8	T4	CRAR000045	CRAR000050	CRAR000055
45	41.2	49.0	T3	CRAR000046	CRAR000051	CRAR000056
60	55.0	65.3	T3	CRAR000047	CRAR000052	CRAR000057
<i>Weight:</i>				89 g/m	119 g/m	149 g/m

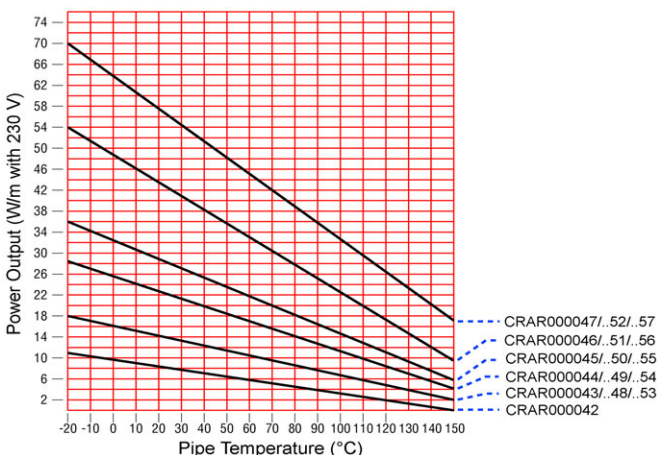
Exposure temperature (even when switched off): minimum -40 °C, maximum +215 °C. Minimum bending radius: 40 mm.

Certifications (except for Base version): ATEX, FM, CSA, GOST for use in hazardous areas (EExe II T4/T3\*).

Parallel construction allows the cable to be cut on site and terminated and spliced by the installer.

Circuit length up to 190 m long, depending on output, minimum temperature and type of circuit breaker.

For quick calculation of cable length: pipe length + 10% for fittings, flanges, etc. Consider more if spirally wound.



**EExe II T4/T3\***

(\*): Area class depending on model, see above chart

An electrical safety device must be installed according to the regulations.

A thermal magnetic circuit breaker (curve C or K) with 30 mA differential control must be used for protection.

Maximum voltage, out of hazardous areas: 277  
Standard versions for 110 V supply are available on request. Special versions for 24V or 48V (min. 1000 m).

For selecting the calibration of the circuit breaker, use the table on the right, basing on the model, on the length of the installed cable and the minimum start-up temperature. The numbers in italic are the cable maximum length.

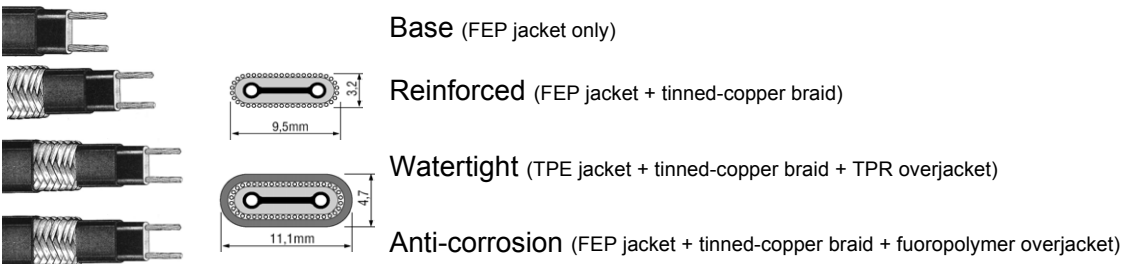
Calibration (A)	CRAR000042			CRAR000043			CRAR000044			CRAR000045			CRAR000046			CRAR000047		
	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C
6	95	60	-	55	40	-	35	25	-	25	20	-	20	15	-	15	13	-
10	150	100	-	95	65	-	60	45	-	40	35	-	30	25	-	30	20	-
16	187	175	170	117	105	100	92	83	79	61	53	50	47	39	37	37	32	29
20	234	228	225	146	131	126	116	105	102	77	68	65	58	53	50	47	41	39
25	242	238	236	180	160	158	145	130	120	96	85	80	71	66	63	57	50	48
32	253	253	253	234	210	201	187	169	159	125	112	107	94	87	84	74	65	63
40	-	-	-	228	228	228	198	198	198	149	149	143	117	109	103	93	82	77
50	-	-	-	-	-	-	-	-	-	-	-	149	128	128	128	106	106	102

# Heating Cable

## Self regulating, low temperature

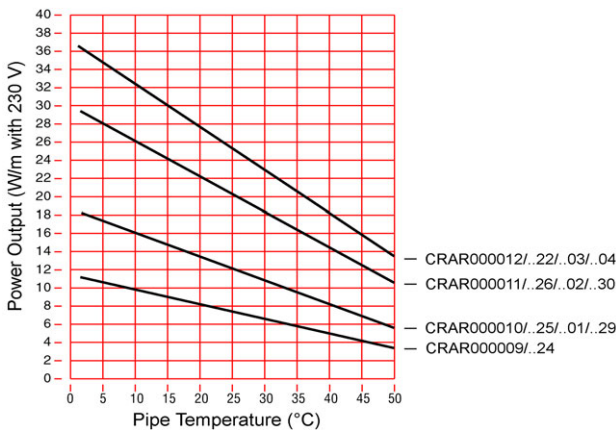


For freeze protection or temperature maintenance up to 50 °C. For use in pipes, valves, tanks, etc.  
 The two copper conductors are located within an extrusion of a semi-conductive polymer (ETFE) whose resistance varies with temperature. The characteristic is exploited to supply the required power in proportion to the process temperature and allows the cable to be overlapped without burning as the power reduces to almost zero as the polymer temperature limit is approached.  
 Poorly insulated cable or cable that cross insulation or voids will not be affected by such use. However it is important to ensure that the pipe temperature does not exceed the maximum exposure temperature of the cable either when operating or switched off.



Power at +10 °C (W/m)			Part Numbers			
230 V	220 V	240 V	Base	Reinforced	Watertight	Anti-corrosion
9.2	8.4	10	CRAR000009	CRAR000024	-	-
15	13.4	16	CRAR000010	CRAR000025	CRAR000001	CRAR000029
24	31.9	26	CRAR000011	CRAR000026	CRAR000002	CRAR000030
31	28	33	CRAR000012	CRAR000022	CRAR000003	CRAR000004
<i>Weight:</i>			<i>52 g/m</i>	<i>84 g/m</i>	<i>95 g/m</i>	<i>98 g/m</i>

Exposure temperature (even when switched off): minimum -30 °C, maximum +85 °C. Minimum bending radius: 40 mm.  
 Certifications (except for Base version): ATEX, FM, CSA, GOST for use in hazardous areas (EExe II T5).  
 Parallel construction allows the cable to be cut on site and terminated and spliced by the installer.  
 Circuit length up to 200 m long, depending on output, minimum temperature and type of circuit breaker.  
 For quick calculation of cable length: pipe length + 10% for fittings, flanges, etc. Consider more if spirally wound.



**EExe II T5**

An electrical safety device must be installed according to the regulations.  
 A thermal magnetic circuit breaker (curve C or K) with 30 mA differential control must be used for protection.  
 Maximum voltage, out of hazardous areas: 277  
 Standard versions for 110 V supply are available on request. Special versions for 24V or 48V (min. 1000 m).

For selecting the calibration of the circuit breaker, use the table on the right, basing on the model, on the length of the installed cable and the minimum start-up temperature. The numbers in *italic* are the cable maximum length.

Calibration (A)	CRAR000009			CRAR000010			CRAR000011			CRAR000012		
	CRAR000024			CRAR000025			CRAR000026			CRAR000022		
	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C	+10°C	-20°C	-30°C
<b>6</b>	75	50	-	45	32	-	33	25	-	19	15	-
<b>10</b>	121	83	74	75	54	48	56	40	36	30	24	22
<b>16</b>	193	134	119	121	87	79	92	64	56	51	40	38
<b>20</b>	200	168	150	153	109	98	113	80	71	63	51	48
<b>25</b>	-	200	181	163	136	122	127	101	90	78	63	59
<b>32</b>	-	-	200	-	174	158	-	127	113	101	82	77
<b>40</b>	-	-	-	-	-	163	-	127	127	109	103	96



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