Specifications:

ATEX Heating Cable 7 Joule

(1) Description of the heating cable

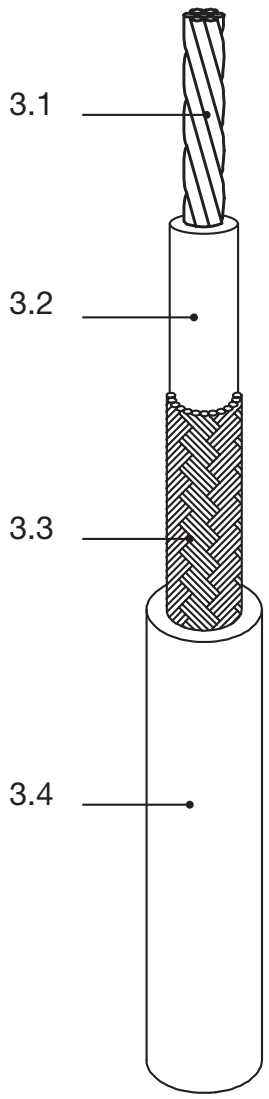
PFA-insulated heating cable for use in potentially explosive atmospheres, The ATEX component licence for this series trace heater according to PFA-Cu-PFA design was issued by the KEMA testing laboratory.

(2) Specifications

2.1 General specifications

Resistance at +20° C:	(cf. Table)
Temperature range:	-60° C to +260° C
Test voltage (Ueff):	2.50 kV (conductor/braiding)
Nominal voltage (U0/U):	450/750 V
Bending radius:	1.08 – 1.71 Ohm/km: 25 mm
	2.90 – 8000 Ohm/km: 15 mm
Installation temperature:	minimum -60° C
Mechanical strength:	7 Joule

(3) Construction of the heating cable

3.1 Resistance conductor
3.2 Insulation sleeve: PFA wall thickness
3.3 Metal protective braiding
3.4 Jacket: PFA wall thickness

Art.No.	Ohm/m	Wire	Jacket OD mm	Temp. coefficient electr. resistance 20 and 105°C in 10-6/K
68997-0.00108	0.00108	lead	10.20	+4300
68997-0.00171	0.00171	lead	8.60	+4300
68997-0.0029	0.0029	lead	7.60	+4300
68997-0.004	0.004	lead	6.55	+4300
68997-0.0044	0.0044	lead	6.70	+4300
68997-0.0072	0.0072	lead	5.54	+4300
68997-0.01	0.01	lead	5.35	+4300
68997-0.0117	0.0117	lead	5.20	+4300
68997-0.015	0.015	lead	5.02	+4300
68997-0.0178	0.0178	lead	4.90	+4300
68997-0.025	0.025	lead	4.87	+3000
68997-0.0315	0.0315	lead	5.19	+1000 to +1600
68997-0.05	0.05	lead	4.87	+1000 to +1600
68997-0.05	0.05	lead	4.93	+1000 to +1600
68997-0.065	0.065	lead	4.71	+1000 to +1600
68997-0.08	0.08	lead	4.61	+1000 to +1600
68997-0.1	0.1	lead	5.16	+350 to +450
68997-0.1	0.1	lead	4.50	+1000 to +1600
68997-0.15	0.15	lead	4.87	+350 to +450
68997-0.18	0.18	lead	4.56	+500 to +900
68997-0.2	0.2	lead	4.70	+350 to +450
68997-0.32	0.32	lead	4.83	+180
68997-0.36	0.36	lead	4.42	+350 to +450
68997-0.38	0.38	lead	4.73	approx +180
68997-0.48	0.48	lead	4.61	approx +180
68997-0.6	0.6	lead	4.50	approx +180
68997-0.65	0.65	lead	4.46	approx +180
68997-0.7	0.7	lead	4.43	approx +180
68997-0.81	0.81	lead	4.59	-80 to +40
68997-1	1.0	lead	4.49	-80 to +40
68997-1.44	1.44	lead	4.34	-80 to +40
68997-1.75	1.75	lead	4.40	-80 to +40
68997-1.75	1.75	lead	4.27	-80 to +40
68997-2	2.0	lead	4.52	+300 to +400
68997-3	3.0	lead	4.35	+300 to +400
68997-8	8.0	lead	4.07	+50 to +150