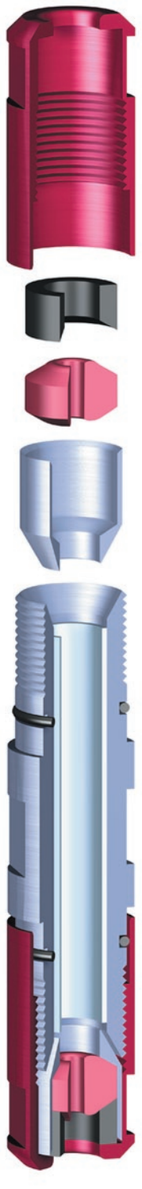
Hemstedt Heating Cable Connector

The new innovative Hemstedt connector system for use in potentially explosive atmospheres complies with latest international ATEX safety norms.

High-grade materials, a robust metal housing and the extremely compact design ensure an extraordinarily wide range of application.



The advantages of the connector system

- Suitable for all Hemstedt heating cables for potentially explosive atmospheres
- Connectable wires of 0.14 mm^2 to 16 mm^2
- Suitable for cables of 3 to 11 mm outer diameter
- Wide temperature range from -60°C to +260°C
- Nominal voltage up to 750V
- Can be configured with special options
- Licensed for areas in which potentially explosive gas mixtures or flammable dust can occur
- Simple installation without flame or adhesive sealant
- Robust metal housing
- Degree of protection: IP 68
- 100% screening to ground
- Electrical connection by crimp connector
- Simple handling
- Easy to operate and environmentally friendly
- Suitable for connections when repair must be made

For more information, test certificates, guidelines, norms and accreditations, please contact us directly or download the information as PDF file from our website.

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Hemstedt®
Heating cables
Cold store equipment

ATEX CONNECTION

ATEX CONNECTION

Hemstedt Heating Cable Connector

The ultimate connector for potentially explosive atmospheres

complies with latest international safety norms

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Heating cables
Cold store equipment

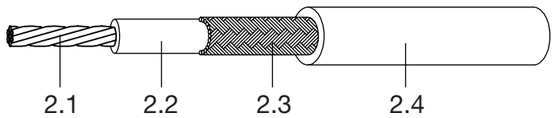
ATEX Heating Cable 4 Joule Specifications

(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) Construction of the heating cable

2.1 Resistance conductor, cf. Table
2.2 Insulation sleeve: PFA wall thickness: 0.80mm (-0/+0.05mm) / (6) 0.90mm / (1) 1.0mm
2.3 Metal protective braiding Cu 16x5x0.15mm / (2) 16x5x0.20mm / (3) 16x6x0.20mm
2.4 Jacket: PFA wall thickness: 0.4mm (-0/+0.05mm) / (4) 0.7mm / (5) 0.8mm / (6) 0.6mm



(3) Specifications

3.1 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 (UO/U): 450/750V

Bending radius: 5 times outside diameter
Installation temperature: minimum -40°C
Mechanical strength: 4 Joule

Art.No.	Ohm/m	Alloy	Wire diameter mm	No.of wires	Lead diameter mm	Lead cross section mm²	Jacket OD mm	Temp. coefficient electr. resistance 20 and 105°C in 10-6/K
68997-0.00108 (1)+(3)+(5)	0.00108	CU lead	0.404	126	5.80	16.14	10.20	+4300
68997-0.00171 (6)+(3)+(4)	0.00171	CU lead	0.404	80	4.60	10.24	8.60	+4300
68997-0.0029 (2)+(4)	0.0029	CU lead	0.3	84	3.60	5.93	7.60	+4300
68997-0.004 (2)+(6)	0.004	CU lead	0.3	63	2.75	4.45	6.55	+4300
68997-0.0044 (2)+(6)	0.0044	CU lead	0.3	56	2.90	3.95	6.70	+4300
68994-0.0072	0.0072	CU lead	0.25	50	1.940	2.45	4.94	+4300
68994-0.01	0.01	CU lead	0.203	56	1.750	1.81	4.75	+4300
68994-0.0117	0.0117	CU lead	0.25	30	1.600	1.47	4.60	+4300
68994-0.015	0.015	CU lead	0.2	37	1.420	1.16	4.42	+4300
68994-0.0178	0.0178	CU lead	0.2	32	1.300	1.00	4.30	+4300
68994-0.025	0.025	CuNi1	0,423	7	1.269	0.98	4.27	+3000
68994-0.0315	0.0315	CuNi2	0,53	7	1.59	1.54	4.59	+1000 to +1600
68994-0.05	0.05	CuNi2	0.423	7	1.269	0.98	4.27	+1000 to +1600
68994-0.05	0.05	CuNi2	0.3	7	1.33	1.06	4.33	+1000 to +1600
68994-0.065	0.065	CuNi2	0.37	7	1.11	0.75	4.11	+1000 to +1600
68994-0.08	0.08	CuNi2	0.335	7	1.01	0.61	4.01	+1000 to +1600
68994-0.1	0.1	CuNi10	0.52	7	1.56	1.48	4.56	+350 to +450
68994-0.1	0.1	CuNi2	0.30	7	0.90	0.49	3.90	+350 to +450
68994-0.15	0.15	CuNi10	0.423	7	1.269	0.98	4.27	+350 to +450
68994-0.18	0.18	CuNi6	0.32	7	0.96	0.56	3.96	+500 to +900
68994-0.2	0.2	CuNi10	0.366	7	1.098	0.73	4.10	+350 to +450
68994-0.32	0.32	CuNi23 Mn	0.41	7	1.23	0.92	4.23	+180
68994-0.36	0.36	CuNi10	0.273	7	0.819	0.41	3.82	+350 to +450
68994-0.38	0.38	CuNi23 Mn	0.376	7	1.128	0.77	4.13	approx +180
68994-0.48	0.48	CuNi23 Mn	0.335	7	1.01	0.62	4.01	approx +180
68994-0.6	0.6	CuNi23 Mn	0.3	7	0.9	0.49	3.90	approx +180
68994-0.65	0.65	CuNi23 Mn	0.288	7	0.864	0.46	3.87	approx +180
68994-0.7	0.7	CuNi23 Mn	0.277	7	0.831	0.42	3.83	approx +180
68994-0.81	0.81	CuNi44	0.329	7	0.987	0.59	3.99	-80 to +40
68994-1	1.0	CuNi44	0.296	7	0.888	0.48	3.89	-80 to +40
68994-1.44	1.44	CuNi44	0.246	7	0.738	0.33	3.74	-80 to +40
68994-1.75	1.75	CuNi44	0.2	9	0.70	0.28	3.70	-80 to +40
68994-1.75	1.75	CuNi44	0.224	7	0.672	0.28	3.67	-80 to +40
68994-2	2.0	NiCr30/20	0.305	7	0.915	0.51	3.92	+300 to +400
68994-3	3.0	NiCr30/20	0.249	7	0.747	0.34	3.75	+300 to +400
68994-8	8.0	NiCr80/20	0.155	7	0.465	0.13	3.47	+50 to +150

ATEX Heating Cable 7 Joule Specifications

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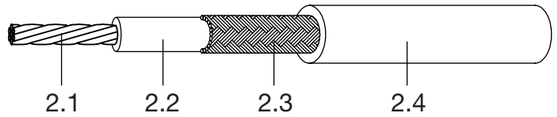

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