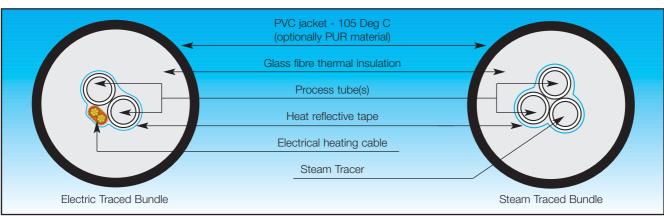
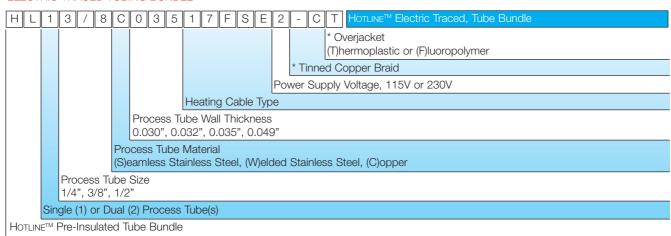


HOTLINE™ Insulated Tubing for Steam Supply & Condensate Returns Lines

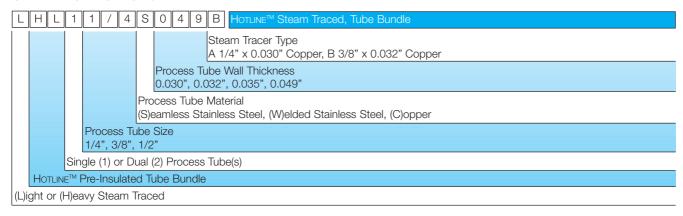


ELECTRIC TRACED TUBING BUNDLE

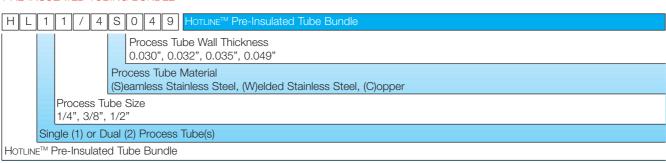


* Not applicable to AHT heating cable

STEAM TRACED TUBING BUNDLE



PRE-INSULATED TUBING BUNDLE

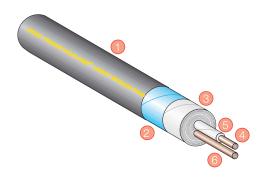


Steam Traced Tube Bundles



HOTLINE™ LIGHT STEAM TRACE TUBE BUNDLES

The HOTLINE™ "light" steam trace tubing consists of a single thermally insulated process line and a single thermally insulated tracer. This is designed for temperature sensitive process lines, sample lines and impulse lines to help prevent freezing and protect fluids against high temperature degradation.



Black Thermoplastic Jacket 1

Heat Reflective Tape (2)

Non-hygroscopic Glass Fibre 3

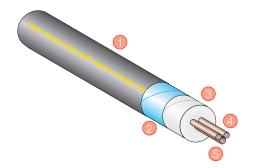
Process Tube 4

Non-hygroscopic Glass Fibre

Steam Tracer 6

HOTLINE™ HEAVY STEAM TRACE TUBE BUNDLES

The HOTLINE™ "heavy" steam trace bundle consists of multiple process lines and a single tracer line designed for the direct heating of process lines and impulse lines.



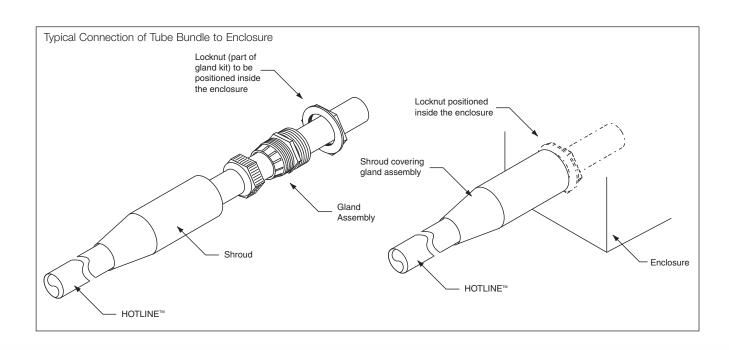
Black Thermoplastic Jacket

Heat Reflective Tape (2)

Non-hygroscopic Glass Fibre 3

Process Tubes 4

Steam Tracer 6





DESIGN PERFORMANCE

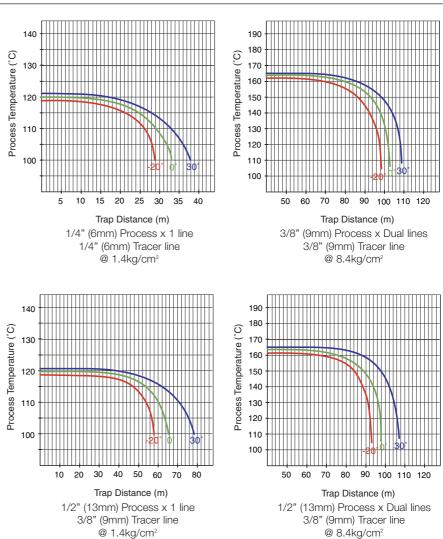
Design Performance

The HOTLINE™ system is designed such that the outer jacket surface temperature will not exceed 60°C, when the process tube is at 200°C and the ambient temperature is at 27°C.

Typical Tube Bundle Data

Process Tube O.D.		Steam Tracer O.D.	Overall Bundle O.D. (mm)	Nom. Bundle Weight (kg/m)	Min. Bending Radius (mm)
Single Tube	Dual Tube				
1/4"	-	1/4"	30.5	0.75	200
3/8"	-	1/4"	35	0.9	250
3/8"	-	3/8"	39	1.05	300
1/2"	-	3/8"	40.5	1.15	300
-	1/4"	1/4"	35	0.9	300
-	3/8"	3/8"	39	1.15	350
-	1/2"	3/8"	40.5	1.3	350

PERFORMANCE CURVES

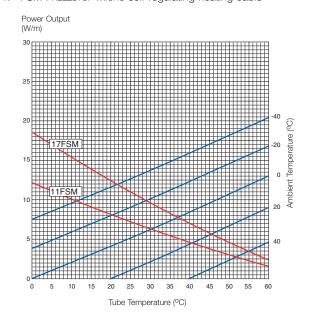




HOTLINE™ ELECTRIC TRACING PERFORMANCE

The following are *typical* performance charts. This is because we have various power outputs available and there are a multitude of line sizes and materials. The charts provide a guide only to a systems potential performance.

1. FSM FREEZSTOP MICRO self-regulating heating cable



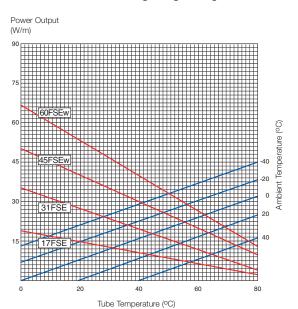
1 x 6mm copper tube

Heating cable power output curves are based on 115V or 230V power supplies

Vinterisation and low temperature maintenance

2. FSE FREEZSTOP EXTRA self-regulating heating cable





1 x 19mm stainless steel tube

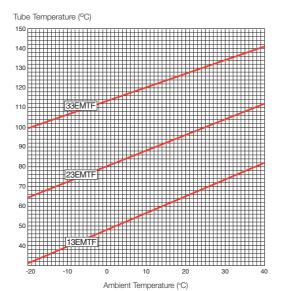
Heating cable power output curves are based on 115V or 230V power supplies

Process temperature





3. EMTF MICROTRACER constant power heating cable



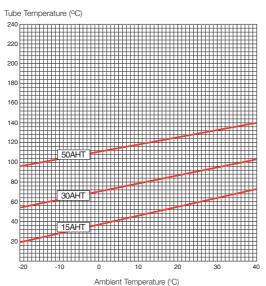
SINGLE

1 x 9mm process tube

Process temperature maintenance to 120°C

AHT

4. AHT PowerHeat constant power heating cable



DUAL

2 x 9mm process tubes

Process temperature maintenance to 300°C

Electric Heater Types

Cable	FSM FREEZSTOP MICRO	FSE FREEZSTOP EXTRA	EMTF MICROTRACER	AHT PowerHeat
Output	11W/m @ 5 Deg C 17W/m @ 5 Deg C	17W/m @ 10 Deg C 31W/m @ 10 Deg C 45W/m @ 10 Deg C 60W/m @ 10 Deg C	13W/m 23W/m 33W/m	15W/m 30W/m 50W/m
Max. Process	65 Deg C	85 Deg C	205 Deg C	425 Deg C
Voltage	115/230V	115/230V	115/230V	115/230V
Approvals FM Cert. ATEX Cert. SIRA Cert.	3009080 Sira 02ATEX3075 SCS Ex 99E3147	from Dec 2002 Sira 02ATEX3076	from Dec 2002 - -	3009080 Sira 02ATEX3079 SCS Ex 94D3114
Standard	EN50019 IEEE 515	EN50019 IEEE 515	EN50019 IEEE 515	EN50019 IEEE 515

Presented by:



Tel. +7 (71133) – 93077 Fax +7 (71133) – 93074 E-Mail: info-kz@ibemo.de

ӨНЕРКӘСІП ЖӘНЕ ЭЛЕКТР МАТЕРИАЛДАРДЫН ЖАБДЫҚТАУШЫСЫ ПОСТАВЩИК ИНДУСТРИАЛЬНОГО И ЭЛЕКТРИЧЕСКОГО ОБОРУДОВАНИЯ И MATEPИAЛОВ SUPPLIER OF INDUSTRIAL & ELECTRICAL EQUIPMENT and MATERIALS



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