JINDAL SAW LTD.
TOTAL PIPE SOLUTIONS

- CUSTOMISED DESIGN
- TAILORED CONFIGURATION & LENGTHS
- INSTALLATION ACCESSORIES FOR TUBE BUNDLE, TUBES, ENCLOSURE
- SERVICE SUPPORT
- ELECTRICAL TRACED TUBING
- STEAM TRACED TUBING
- PRE-INSULATED TUBING
- COATED TUBING

PRE-INSULATED AND HEAT TRACED TUBING

PRE-INSULATED ELECTRIC TRACED TUBING

Jindal SAW's Pre-insulated and Electric Traced tubing products are used where steam is not available or steam supply could be interrupted. Depending on the application various types of pre-insulated and electric-traced tubing are available, i.e. with parallel constant wattage heating cables, with self-regulating heating cables, with power limiting heating cables, with series heating cables, etc.

PRE-INSULATED STEAM TRACED TUBING

Jindal SAW's Pre-insulated Steam Traced tubing has a tracer that is similar to a copper or stainless steel tube. The complete assembly is wrapped with thermal insulation and finally covered with an outer jacket material. There are various applications available for Pre-insulated Steam Traced Tubing bundles in various industries.

PRE-INSULATED TUBING

Jindal SAW's Pre-insulated tubing is designed specifically for steam, condensate, liquid and gas transport lines where personnel protection and heat loss are important. To avoid heat loss, the tubes are pre-insulated with thermal insulation, which is made of several layers and protected by outer jacket material in accordance with client requirements. This offers an inexpensive alternative to field insulation and weatherproofing of small-diameter lines.

COATED TUBES

Jindal SAW's Coated tubes are resistant to moisture ingress, salt fog, vibration and mechanical damage and are designed for installation in a corrosive environment to carry non-viscous fluids, air, gas, water, and hydraulic fluids. Industry-standard tubing (copper, carbon steel, stainless steel coated) with PVC or customised outer jacket provides increased protection against galvanic and atmospheric corrosion, as well as cushioning against wear and tear of the tubes. Suited for extreme corrosive loads, especially in a maritime environment.

TECHNICAL SPECIFCATIONS

EHTL	01	PTFE	01	A	CWC	01	FG	PVC
1	2	3	4	5	6	7	8	9

1	Types of Bundles:	• EHTL - Electrical Heat Traced Line • SHTL - Steam Heat Trace Line • PIT - Pre-insulated Tubing • CT - Coated Tubes
2	No. of Process Tubes:	• 01 - Single • 02 - Two, more options available
3	Tube Materials:	• PTFE - Poly Tetra Fluoro Ethylene • SSS - Stainless Steel Seamless • SSW - Stainless Steel Welded, more options available
4	Tube Sizes (OD):	• 01-1/8" • 02 1/4" • 03-3/8" • 04-1/2" • 05-3/4" • 06-6MM • 07 - 8MM • 08-10MM • 09 - 12MM
5	Tube Wall Thickness:	• A-0.035" • B -0.040" • C-0.049" • D-0.062" • E-0.065" • F-1MM • G-1.25MM • H-1.5MM
6	Heating Cable:	• CWC - Constant Wattage Cable • SRLT - Self-regulating Low Temperature • SRMT - Self-regulating Medium Temperature • SRHT - Self-regulating High Temperature • PLC - Power Limiting Cable
7	Power Output:	• 01-16 W/m, or • 02-25 W/m, or • 03-33 W/m, or • 04-45 W/m, or • 05-60W/m, or • 06-66 W/m
8	Insulation Materials:	• FG - Fiber Glass • TF - Thermal Fleece, or • SF - Silicon Foam
9	Outer Jacket:	• PVC - Extruded PVC, or • TPU - Extruded TPU, or • PA.PA corrugated, or • TPE - Extruded TPE

ADVANCED PRODUCTS FOR VARIOUS INDUSTRIAL APPLICATIONS

- Oil & Gas
- Hydraulic & Instrumentation
- Automobile
- Food & Pharmaceutical
- Nuclear Thermal & Hydro Power
- Chemical
- Paper & Pulp
- Power
- Aerospace






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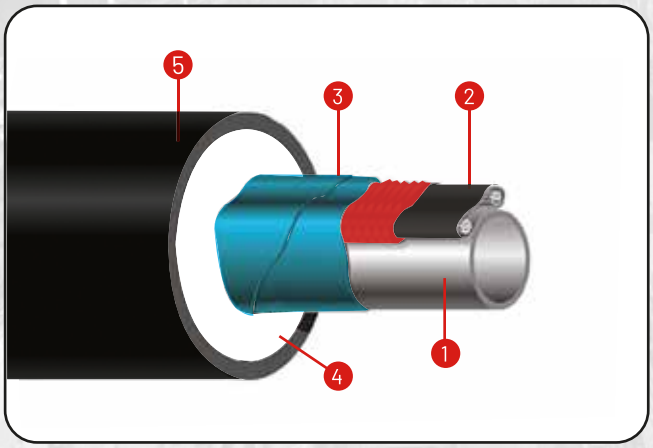
TRACELINE

PRE INSULATED ELECTRICAL HEAT TRACED TUBING



- Tube Material: SS 316 Welded/Seamless, Copper, PTFE, FEP, PFA, any specialized material
- Heating Cable: Self-regulating, Constant Wattage, Customized
- Aluminized Heat Reflective Foil Wrap
- Thermal Insulation: Fibre Glass/ Aerogel/ Silicon
- Outer Jacket: FR PVC/TPE/ TPU/ PA

TRACELINE ELECTRICAL HEAT TRACED TUBING

Traceline Electrical Heat Traced Tubing is a system used to maintain the temperature of the sample or fluid flowing inside the tubing. In this system, electric heating is achieved by utilizing resistance-based heating cables, which run parallel to the tubing. These cables generate heat and compensate for heat loss, thus preventing a temperature drop and maintaining the process temperature inside the tubing.

Depending on the application, various types of electrical heat traced tubing bundles are available, such as parallel constant-wattage heating cables, self-regulating heating cables, power-limiting heating cables, and series heating cables.

TYPES OF TRACELINE ELECTRICAL HEAT TRACED TUBING

Electrical Traced Tubing with Constant Wattage Heating Cable

Electrical Heat Traced Tubing with Self-regulating Heating Cable

ADVANTAGES

- Long life of plant usage
- Quality of factory-assembled & tested tubing, heating cable, thermal insulation and outer jacket
- Efficiently engineered thermal & safety design
- Savings in installation time, space & cost
- Maintenance-free and well-protected against moisture & water ingress, mechanical damage, abrasion and corrosion
- Safety approvals for use in hazardous areas

APPLICATIONS

- Analyzer Sampling Lines
  Process Analyzers – Continuous Emissions Monitoring System - Gas Chromatograph
- Instrumentation Sample Lines
  Flow Transmitters – Pressure Transmitters – Level Transmitters
- Small Bore Lead Branch Lines
  Oil Burner supply & return lines – Tablet Coating machine feed lines – Lead lines to condensate and steam manifolds – Condensate Drain lines - Domestic Hot Water branch lines – LPG supply manifolds and lines

TRACELINE ELECTRICAL HEAT TRACED TUBING WITH PARALLEL CONSTANT WATTGE HEATING CABLE

Traceline with polymeric parallel constant wattage heating cables are suited for maintaining temperatures up to 200°C and maximum exposure temperatures up to 260°C.
Key benefits are:

- They are cut-to-zone length
- Constant power output
- There is no need to oversize CB as there is no high inrush current at startup

TRACELINE ELECTRICAL HEAT TRACED TUBING WITH SELF-REGULATING HEATING CABLE

Traceline with self-regulating heating cables are used for maintaining temperature and with self-limiting feature, temperature to Low (40°C), Medium (110°C) and High (120°C to 150°C).
Key benefits are:

- They are cut-to-any length
- Variable output along the entire length with changes in tube temperature and surrounding ambient temperatures
- Self-limiting feature limits process fluid temperatures and heating cable sheath temperature to prevent overheating and burnout

More alternative and specific material choices of Heating Cable, Tubing, Insulation, Outer Jacket are available upon request.

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