

# Raychem XPI Series Heating Systems (IEC / ATEX)

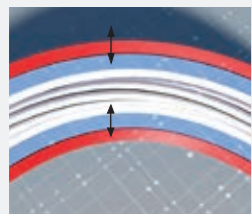
# Raychem

The XPI range is designed for heat-tracing of pipes up to 300°C, in particular for longer circuits up to 5 km. The reliability and performance of a heat tracing system strongly depends on each individual component and their interaction. For the development of Raychem XPI systems, we not only focused on the quality of each component, but also on their compatibility, combined performance and overall reliability.

## XPI CABLE – UTILIZING THE BENEFITS OF PTFE WHERE IT MATTERS

XPI has a unique sandwich jacket construction, with seamless PTFE and other high performance polymers.

- PTFE provides highest long-term temperature performance in a heating cable, as it softens much less than other polymers. It has a reduced cold flow (\*) and ensures a stable electrical insulation over a long life.
- PTFE has a low friction coefficient which minimizes mechanical & thermal stress build-up inside the cable and greatly reduces risk for failure. It makes Raychem XPI a real thermal cable.
- The outer jacket offers additional chemical and mechanical protection.



### (\*) Cold flow:

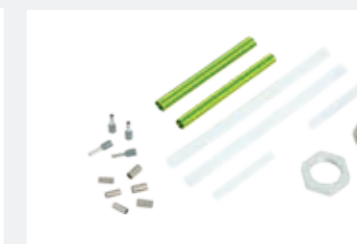
Internal forces can cause conductor displacement due to creepage of the polymer insulation, resulting in reduced electrical insulation.

It typically happens in bends (at flanges, valves, etc.) where mechanical stress is higher at elevated wattages and/or service temperatures.

The unique XPI sandwich construction counters this effect and greatly reduces risk of electrical breakdown.

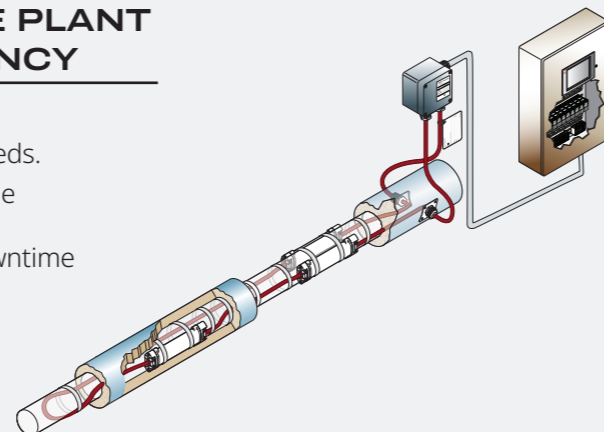
## COMPONENTS – WIDE RANGE OF TECHNOLOGIES TO COVER ALL APPLICATIONS

- Cold applied kits with engineered crimps and cold leads - for demanding applications with high loading & temperature capabilities.
- Versatile cold applied or heat shrink kits and cold leads - for less demanding applications with limited loading.
- NEW: integrated junction boxes for direct connection without cold leads, extra items nor special installation tools (PI-direct).



## CONTROL & MONITORING – MAXIMIZE PLANT PRODUCTIVITY AND ENERGY EFFICIENCY

- From simple thermostats to advanced electronic control & monitoring, we offer energy efficient solutions that fit your needs.
- Data integration into your process control system and real-time monitoring of circuit status and integrity give you full visibility, enabling preventive maintenance and minimizing risk and downtime of your plant.



## COMPLETE AND PROVEN SYSTEM

- Designed with Raychem TraceCalc Pro, a design software based on decades of heat tracing engineering experience.
- Compliant with international standards.
- System approvals for hazardous area, simplifying any risk assessment to be done by customers/end-users.
- 10 year product warranty extension for complete peace of mind.



## FROM THE INVENTOR OF SELF-REGULATING HEATING TECHNOLOGY

- Global leader in electric heat tracing, with wide range of heating cables and technologies.
- 75Y expertise in polymer material science, and 50Y in self-regulating technology.
- 600.000 km cable sold since 1972.

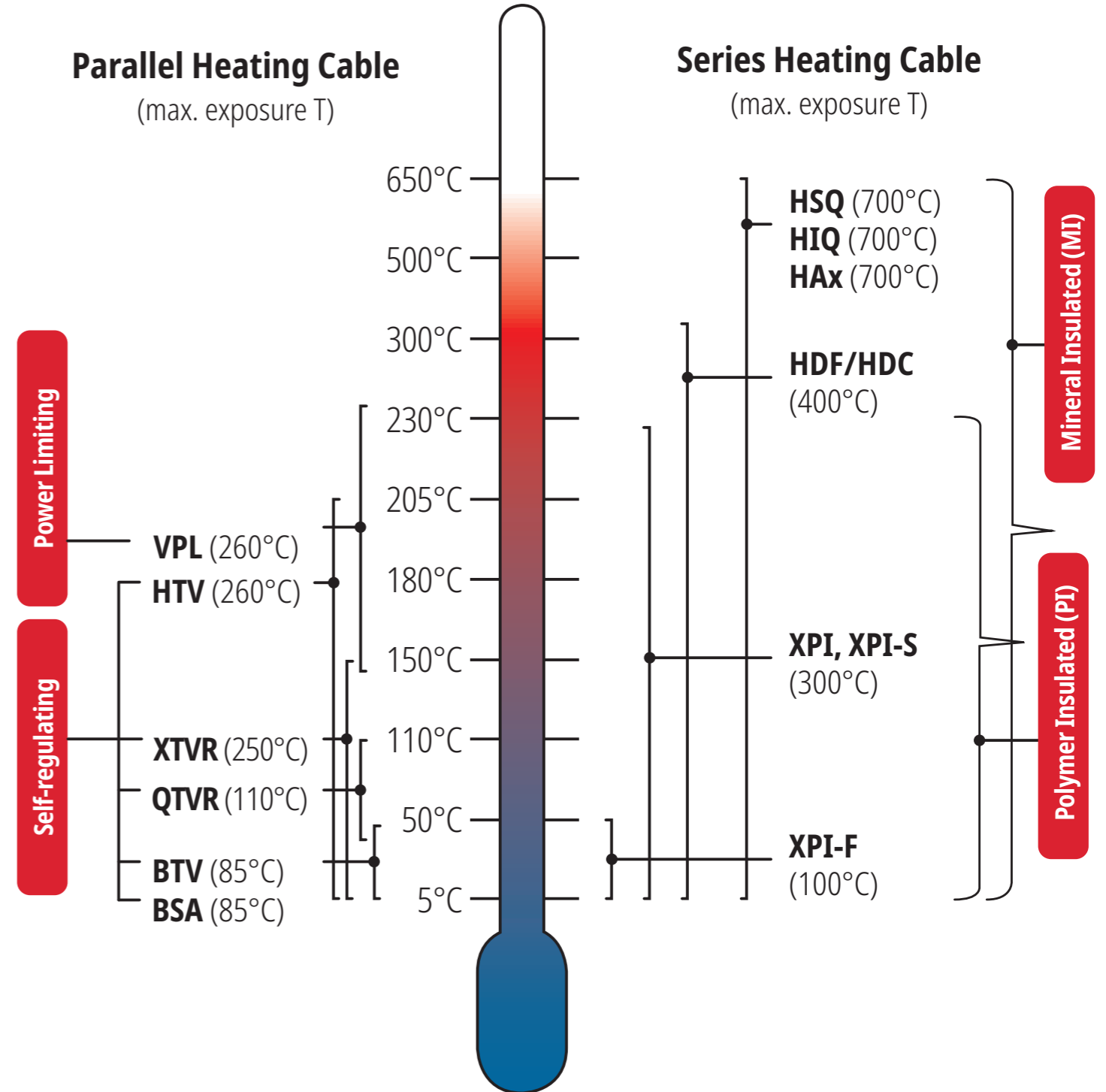
## NEW: INTEGRATED JUNCTION BOXES FOR DIRECT CONNECTION WITHOUT COLD LEADS (PI-DIRECT)

These 3 new kits (Raychem JBS-PI-EP, JBM-PI-EP, JB-SPLICE-PI-E) provide great benefits:

- Direct connection of heating cables to power supply or splicing without the use of cold leads or connection kits.
- Reduced risk for failure (> Less electrical connections).
- Faster installation (> cage clamp terminals, no special tools, no RTV curing).
- Easier in operation (> accessible for inspection, less maintenance, less spare parts).



## Typical continuous operating temperature



### North America

Tel +1 800 545 6258  
info@chemelex.com

### Latin America

Tel +1 713 868 4800  
info@chemelex.com

### Europe, Middle East, Africa, India

Tel +32 16 213 511  
Fax +32 16 213 604  
info@chemelex.com

### Asia Pacific

Tel +86 21 2412 1688  
infoAPAC@chemelex.com