

## nVent RAYCHEM SC Series Heating Systems (cCSAus)

The SC range is designed for heat-tracing of pipes up to 482°F, in particular for longer circuits up to 2.3 miles (3.7 km). The reliability and performance of a heat tracing system strongly depends on each individual component and their interaction. For the development of nVent RAYCHEM SC systems, we not only focused on the quality of each component, but also on their compatibility, combined performance and overall reliability.

### SC Cable - PFA material maximizes performance

SC cables have a unique inner and outer jacket construction using high performance PFA polymers with multiple conductor configurations, and contain fiber glass thread and/or braid based on the temperature requirement.

#### PFA

- Provides high long-term performance in a heating cable, due to its extreme temperature resistance and overall flexibility
- Has excellent permeability resistance due to lower void content to ensure a stable electrical insulation over a long life
- Has a low friction coefficient which minimizes mechanical & thermal stress build-up inside the cable and greatly reduces risk for failure
- Outstanding chemical properties for resistance to corrosive agents, non-solubility, and non-flammability
- Superior electrical properties for dissipation and surface resistivity, and 3-4x higher dielectric strength than PTFE
- Excellent cold flow (creep) resistance and mechanical properties

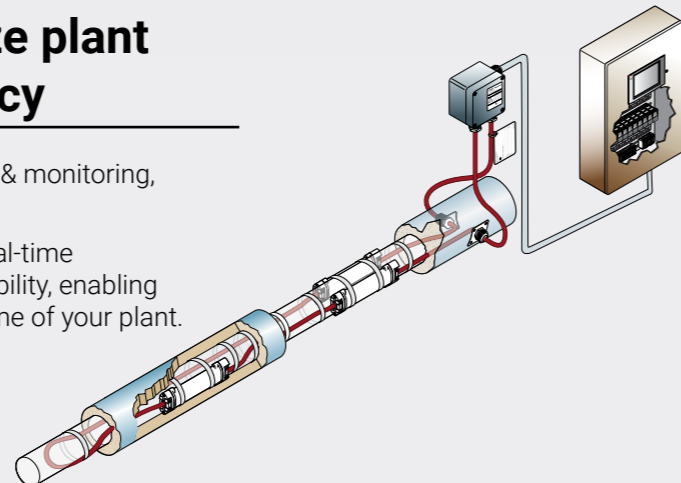
### Components – wide range of technologies to cover all applications

- 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 or special installation tools (SC-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 nVent RAYCHEM TraceCalc Pro, a design software based on decades of heat tracing engineering experience.
- Compliant with North American 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
- 75 year expertise in polymer material science, and 50 year in self-regulating technology

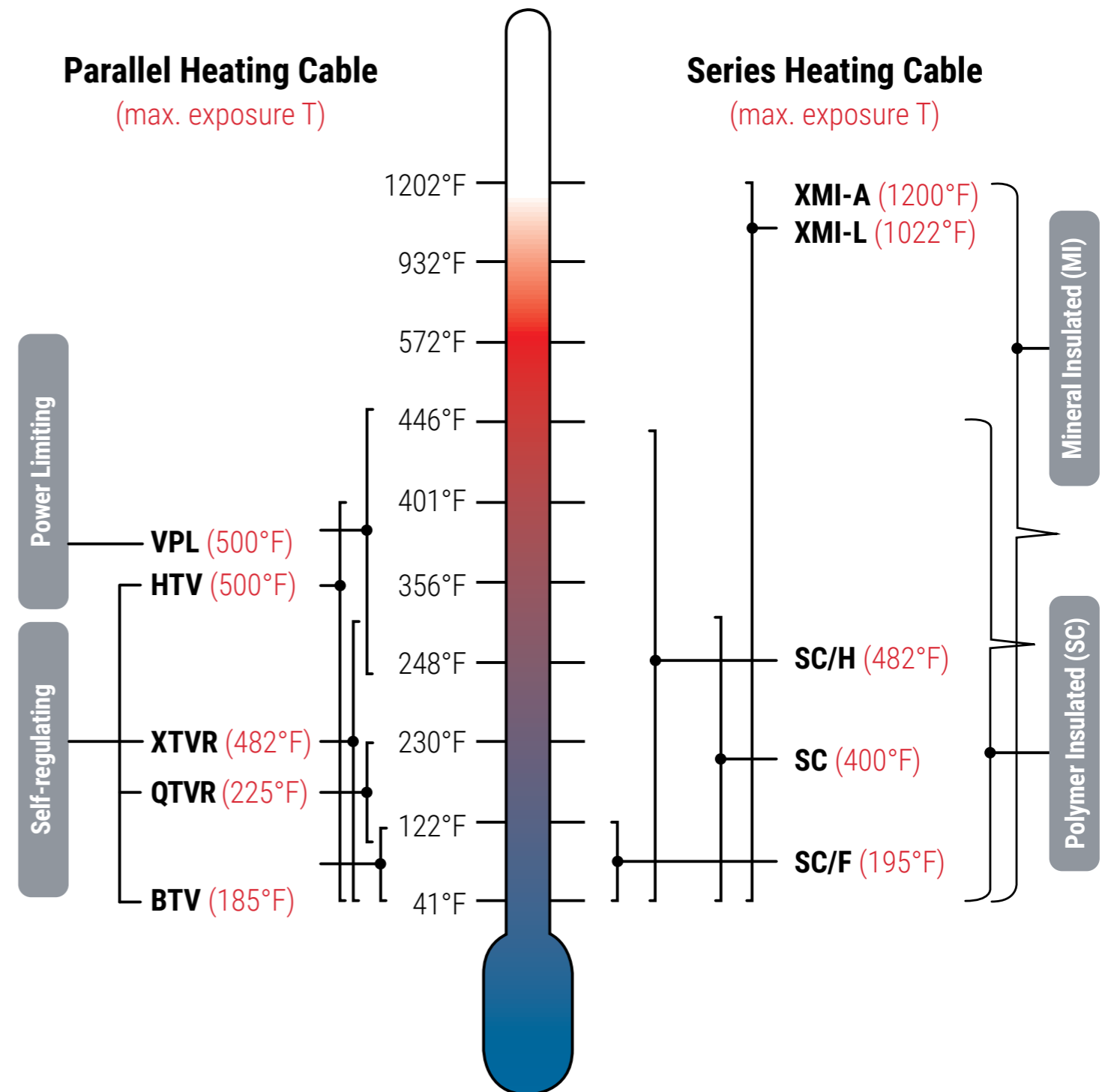
## NEW: integrated junction boxes for direct connection without cold leads (SC-direct)

These 2 new kits (nVent RAYCHEM JBM-SC-A, JB-SPLICE-SC-A) provide many 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  
 Fax +1.800.527.5703  
 thermal.info@nVent.com

### Latin America

Tel +1.713.868.4800  
 Fax +1.713.868.2333  
 thermal.info@nVent.com



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER