

# RAYCHEM HTV with High Power Retention (HPR) Technology

# Raychem

## New Self-Regulating Heating Cable ...

- **HTV is designed for high temperature applications**, up to 205°C/400°F continuous operation and 260°C/500°F maximum exposure.
- **HTV has a solid construction with new HPR heating core** and pressure extruded jacket, resulting in ease of installation, superior performance, and longer life.

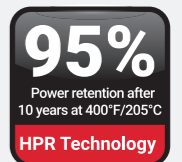


## ... with 10-year product warranty

- All Raychem systems have up to 10 years product warranty. Go to [chemelex.com](http://chemelex.com)

## High Power Retention (HPR)

**HTV has 95% power retention after 10 years** at maximum operating temperature. The new HPR technology is the result of ground-breaking R&D, new materials, incorporating of nano-technology, and offers un-paralleled thermal stability and longevity.

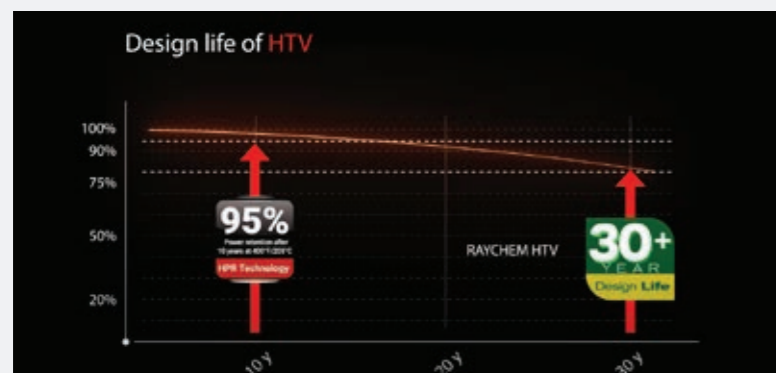


- The power retention (% output of initial rated power) of a self-regulating cable depends on the quality of its heating core, and large differences in power retention and longevity exist across manufacturers.
- Mandatory thermal performance tests from international Standards (IEEE/IEC60079-30) focus on safety aspects of the product and only include short-term power retention tests (months).
- Raychem thermal performance tests include long-term power-retention tests (years). Compared to all other heating cables tested, Raychem cables provide superior power retention and reliability.



## Long Life

- **HTV has a design life of 30 years or more**, when powered ON continuously, based on 75% power retention after 30 years operation at maximum continuous operating temperature. All other Raychem self-regulating heating cables have a design life of 20 years or more.



## Lower Cost of Ownership

**HTV brings benefits to design, installation and operation**, due to the following features:

- Highest temperature capabilities of all Raychem self-regulating cables
- 8 power variants between 3-28 W/ft to closely match heat loss, saving on energy and power infrastructure costs
- T-rating unconditional: T3 for 3-15 W/ft, T2 for 20/28 W/ft. With stabilized design: T3-T6
- Long circuit lengths (up to 978 ft / 294 m) due to large bus wires (2,3 mm<sup>2</sup>)
- Solid cable construction with HPR core and pressure extruded dielectric insulation – excellent thermal conductivity, very flexible, very fast to strip and install
- Use existing Raychem connection kits
- Globally certified for use in hazardous area



## 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
- **1.8 Billion ft** cable sold since 1972

## Industry's first: independent UL verification for Raychem HTV heat tracing cable

Underwriters' Laboratories (UL) has confirmed that HTV self-regulating heating cables retain **100% power output following 18 months of intensive testing at 205°C (400°F)**. Chemelex uses this test data and 3D Arrhenius modelling techniques to establish life ratings and power retention claims.

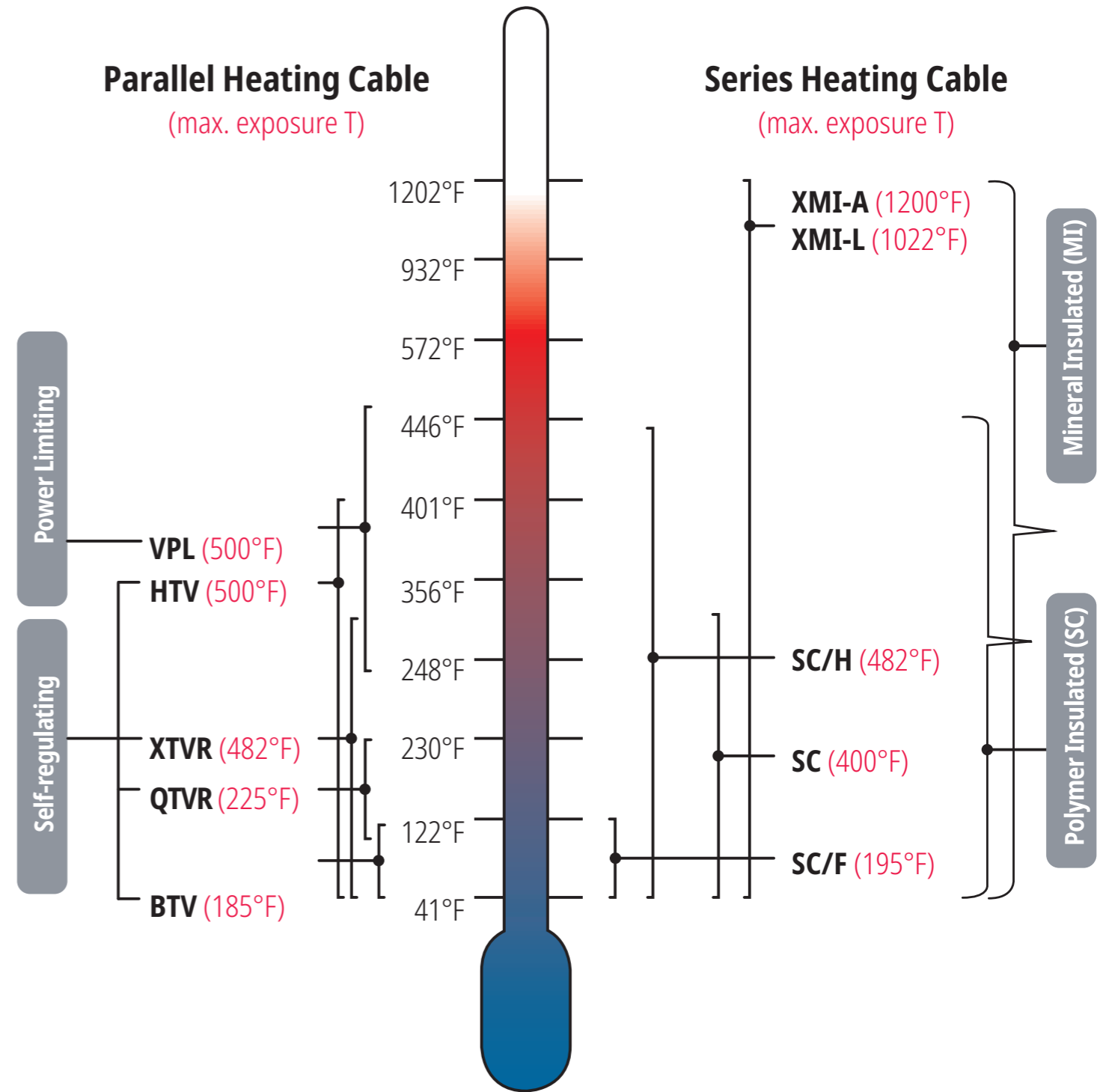
This is the first time an international certification agency has verified a heating cable performance over such an extended period.

The new UL Verified Mark (V341413) is available at [www.verify.UL.com](http://www.verify.UL.com).

**100% power retention after 18 months continuous exposure at 205°C/400°F**



## Typical Continuous Operating Temperature



### North America

Tel +1 800 545 6258  
info@chemelex.com

### Latin America

Tel +1 713 868 4800  
info@chemelex.com