# nVent RAYCHEM HTV with High Power Retention (HPR) Technology

## 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 nVent RAYCHEM systems have up to 10 years product warranty. Go to **nvent.com/RAYCHEM**

PRODUCT DETAILS  WATCH VIDEO

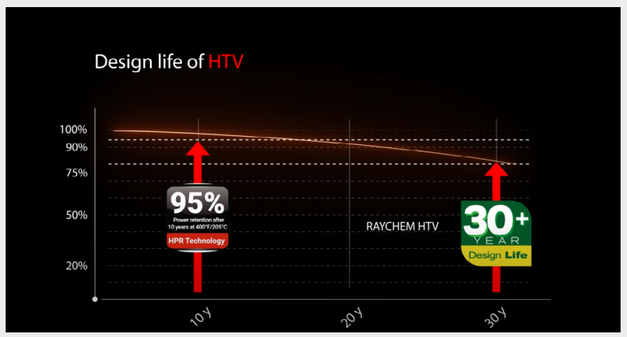
## High Power Retention (HPR)

**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).
- nVent RAYCHEM thermal performance tests include long-term power-retention tests (years). Compared to all other heating cables tested, nVent 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 nVent 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 nVent RAYCHEM self-regulating cables
- 8 power variants between 3-28 W/ft (9-88 W/m) to closely match heat loss, saving on energy and power infrastructure costs
- T-rating unconditional: T3 for 3-15 W/ft (9-48 W/m), T2 for 20/28 W/ft (64-88 W/m). With stabilized design: T3-T6
- Long circuit lengths (up to 978 ft / 294 m) due to large bus wires (2,3 $mm^2$)
- Solid cable construction with HPR core and pressure extruded dielectric insulation – excellent thermal conductivity, very flexible, very fast to strip and install
- Use existing nVent 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 nVent RAYCHEM HTV heat tracing cable

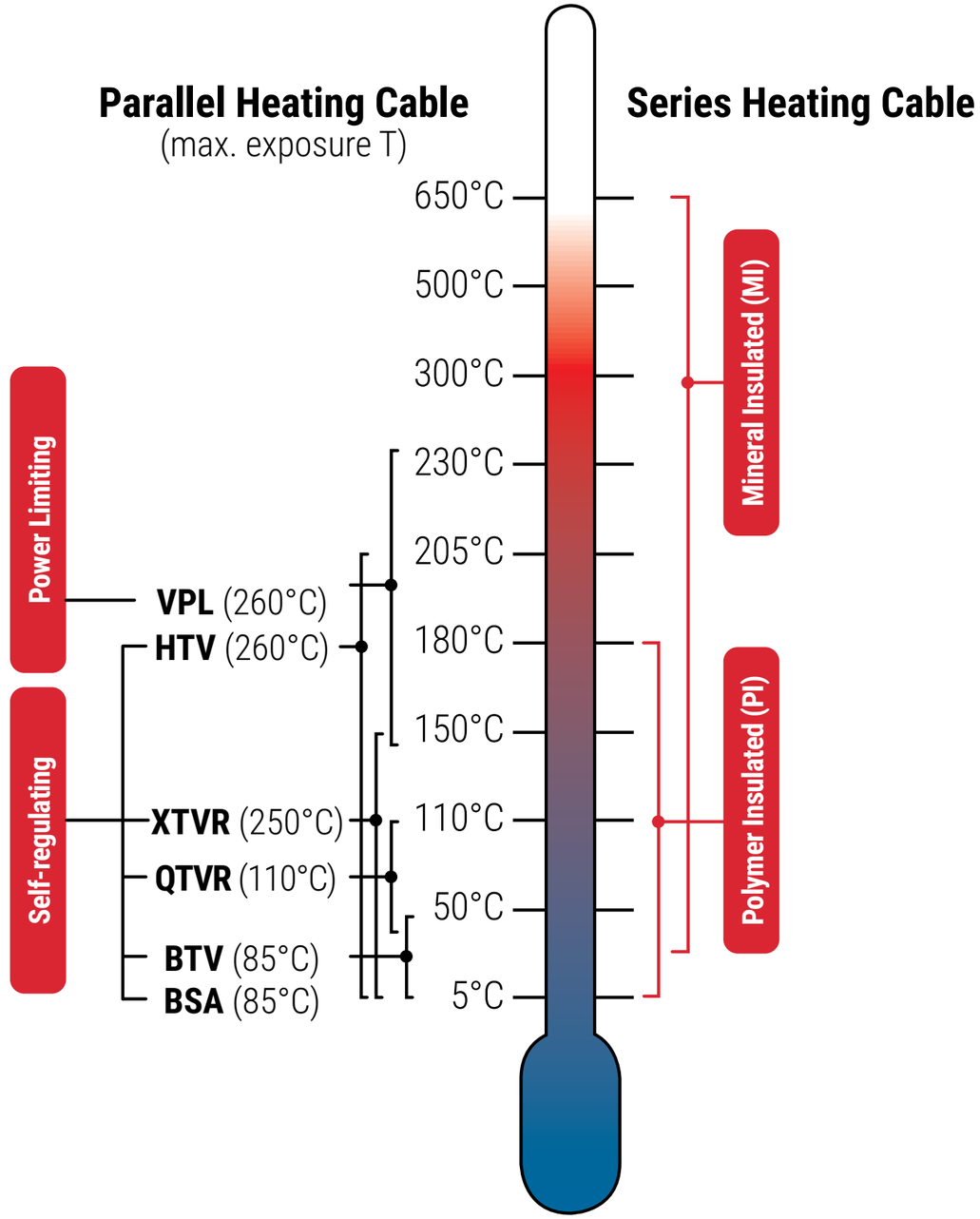
Underwriters' Laboratories (UL) has confirmed that HTV self-regulating heating cables retain **100% power output following 18 months of intensive testing at 205°C (400°F).** nVent uses this test data and 3D Arrhenius modelling techniques to establish life ratings and power retention claims.

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.

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

## Typical continuous operating temperature





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