

# Explore the new XTVR, reloaded with High Power Retention (HPR) technology

# Raychem



## Superior performance

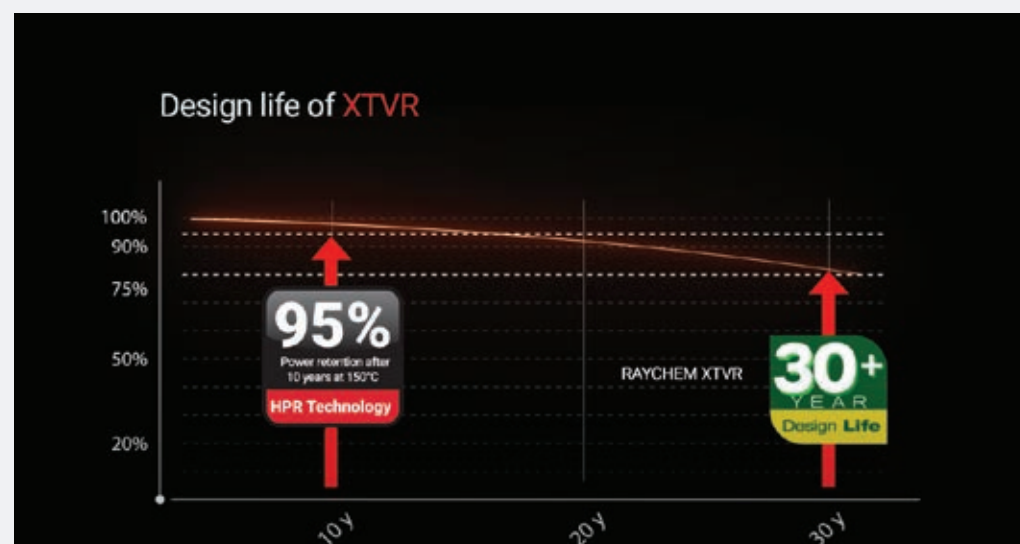
- The new Raychem XTVR is the result of ground-breaking R&D, new materials, nano-technology, and offers un-paralleled thermal stability. It has a **minimum of 95% power retention after 10 years**.
- The power retention of a self-regulating heating cable depends on the quality of its heating core. Large differences exist across manufacturers, and compared to all other tested heating cables, Raychem cables provide **the highest power retention and reliability**.
- Mandatory thermal performance tests (from IEEE/IEC60079-30) focus on product safety aspects & only include short-term power retention tests. Raychem thermal performance tests include additional **long-term power-retention tests** (years).

**95%**  
Power retention after  
10 years at 150°C  
HPR Technology

## Longer life

- The new XTVR has a **design life of 30 years or more**, when powered ON continuously, based on a minimum of 75% power retention at maximum continuous operating temperature.

**30+**  
YEAR  
Design Life



## Higher temperature

- The new XTVR is designed for higher temperature applications:

**150°C / 302°F maximum continuous operating T** (power on)

**250°C / 482°F maximum intermittent exposure T** (on/off)



## More power variants

- The new XTVR has **more power variants**: 7 at 230 V (3, 5, 8, 10, 12, 15, 20XTVR2-CT) and 4 at 110 V (5, 10, 15, 20XTVR1-CT).
- This allows for more efficient designs that closely match heat loss, and can provide **cost savings** on energy consumption and power infrastructure.



## And keeping its proven benefits

- The new XTVR has the same **unique construction**, and is as **flexible** and easy to **install** as the original XTV.
- The new XTVR has the same large bus wires (2,3 mm<sup>2</sup> / 14 AWG) and has very long circuit lengths (290 m / 979 ft), helping to simplify design and reduce installation costs.
- The new XTVR is compatible with the same connection kits as the original XTV.
- The new XTVR is also globally certified for use in hazardous area, and comes with 10 years product warranty.



**10**  
YEAR  
Product warranty

# 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
- **50Y+** in self-regulating technology
- **1.8 Billion ft/ 600.000 km** cable sold since 1972

## Independent UL verification of HPR technology

Chemelex uses long-term test data and 3D Arrhenius modelling techniques to establish life ratings and power retention claims. Underwriters' Laboratories (UL) verified the performance of Chemelex' new HPR technology in the new XTVR heating cable and confirmed that XTVR retains **100% power following 18 months of intensive testing**. This UL Verified Mark (V461322) is available at <https://verify.ul.com/>.

Detailed reports are available upon request.

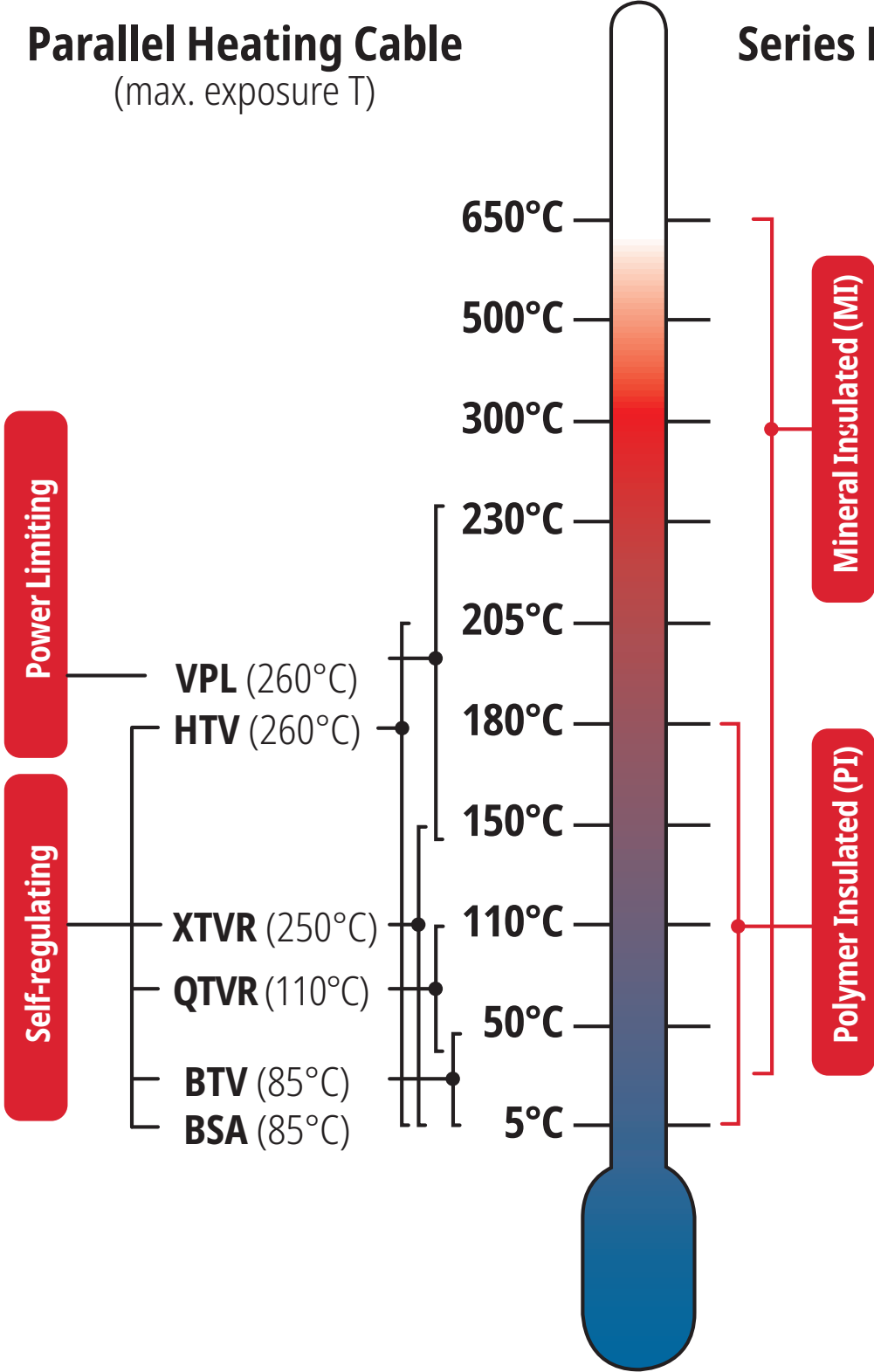
**100% power retention after 18 months continuous exposure at 150°C/302°F**



# Typical continuous operating temperature

**Parallel Heating Cable**  
(max. exposure T)

**Series Heating Cable**



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**Raychem Tracer Pyrotenax Nuheat**