

# RadiantPERT™

## Snow Melting Solutions

Polyethylene Raised Temperature Tubing  
with Oxygen Barrier



**Greater Flexibility | Proven Performance | Over 30 year track record**

Make the Advanced Choice for hydronic heating, cooling,  
snow melting and distribution piping

# RadiantPERT™

Polyethylene Raised Temperature Tubing with Oxygen Barrier

## 5 layer RadiantPERT offers several benefits over other piping materials:

- Greater flexibility
- The outer PE-RT layer protects the oxygen barrier from job-site abuse and moisture
- Easier to pull through joists and confined spaces
- Recyclable material

*Backed by a comprehensive 25 year warranty from Watts Radiant*



Commercial Heating



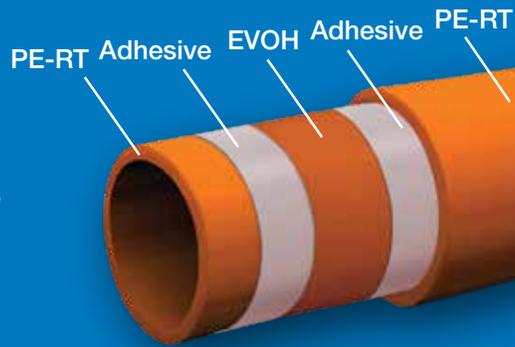
Commercial Snow Melting



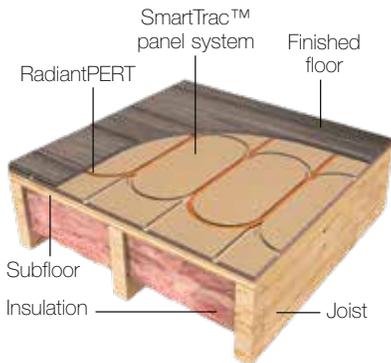
Residential Heating

# What is RadiantPERT?

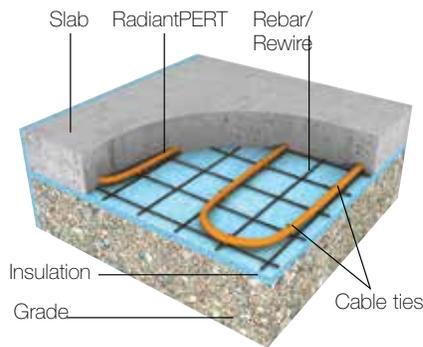
PE-RT stands for Polyethylene Raised Temperature. RadiantPERT is manufactured with Dowlex™ 2344, which offers high strength, high temperature resistance, and long life without cross-linking. PE-RT has been used successfully for nearly 30 years in radiant heating applications.



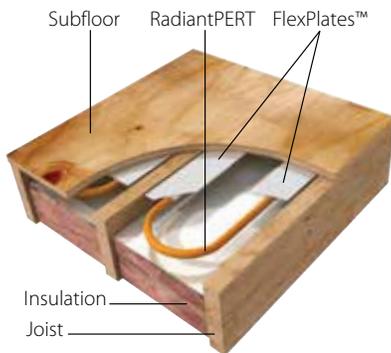
## RadiantPERT applications



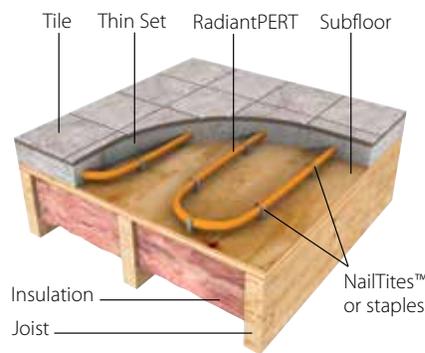
Install RadiantPERT in "dry-panel systems" using Watts Radiant's SmartTrac™ panels. It works great for walls and ceilings, too.



Install RadiantPERT in slab systems for radiant floor heating applications.



Install RadiantPERT for underfloor radiant systems using Watts Radiant heat transfer plates.



Install RadiantPERT in thin-slab systems using Watts Radiant's NailTites, or staples.

### Use RadiantPERT as distribution piping for:

- Radiant heating/cooling systems
- Snow melting systems
- Radiators
- Baseboard
- Fan coils or kickspace heaters



# RadiantPERT uses the same fast and reliable Watts Radiant connection systems that have been used for years, and now includes the ASTM F1960 Cold Expansion Fittings.

CinchClamps™ unique stainless steel design allows for easier connections in tight, hard-to-reach spaces.

CrimpRings™ are precision-formed, ductile copper connectors. When crimped to brass crimp fittings, these connectors form a permanent seal.

T-20 Compression fittings do not require any special tools. A simple crescent wrench is all that is needed.

F1960 Connection Strong, reliable connection system that utilizes ASTM F1960 expansion tool. Does not require Go/No Go gauge.



## Manifolds



Stainless steel manifolds with circuit balance valves and flowmeters



Tubular copper manifolds from 1" to 6" diameter.



CustomCut™ copper manifolds from 1" to 2" diameter.

## ThermalPro® Mechanical Panels



The ThermalPro™ boiler connection station is a modular, compact, pre-piped mechanical system complete with circulator, isolation ball valves, thermometers, pressure bypass valve and, on mixed stations, a 24 volt, 3-way mixing valve.

- RadiantPERT is certified to ASTM F2623 for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing by NSF and CSA. This standard includes requirements and testing methods for materials, workmanship, dimensions, sustained hydrostatic pressure strength, and bend strength. RadiantPERT meets or exceeds these standards.
- RadiantPERT is tested and listed to NSF-14 (rfh).
- Maximum operating temperature and pressure:
  - 160 psi at 73°F
  - 80 psi at 180°F
- PPI TR-4 listing at 73°F and 180°F
- RadiantPERT is certified to the Uniform Mechanical Code.
- CSA B214 approved product
- ICC - PMG-1163

Description	Model #	Nominal I.D. (inches)	Nominal O.D. (inches)	Standard Length(s) (feet)	Bend Radius (inches)
3/8" RadiantPERT	PTO32061	0.35	1/2	600	2.5
1/2" RadiantPERT	PTO32081	0.475	5/8	300 / 1,000	3.125
5/8" RadiantPERT	PTO32101	0.574	3/4	100 / 300 / 500 / 1,200	3.75
3/4" RadiantPERT	PTO32121	0.671	7/8	300 / 500 / 1200	4.375
1" RadiantPERT	PTO32161	0.863	1-1/8	300	5.625
5/8" RadiantPERT	PTO32101-20	0.574	3/4	20' sticks, bundle of 25	3.75
3/4" RadiantPERT	PTO32121-20	0.671	7/8	20' sticks, bundle of 25	4.375
1" RadiantPERT	PTO32161-20	0.863	1-1/8	20' sticks, bundle of 5	5.625

## Tools:



The CinchTool will cinch all sizes of stainless steel CinchClamps



F1960 Expander



Crimp tools are available for 3/8" through 1" RadiantPERT.

ASTM F1960 fittings require ASTM F1960 manual expander tools or Milwaukee Tools M12™ / M18™ Cordless ProPex® expansion tools.



USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com

Canada: T: (905) 332-4090 • F: (905) 332-7068 • Watts.ca

Latin America: T: (52) 81-1001-8600 • F: (52) 81-8000-7091 • Watts.com