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

Watts.com
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
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

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.
Crimp tools are available for 3/8” through 1” RadiantPERT. CinchClamps™ unique stainless steel design allows for easier connections in tight, hard-to-reach spaces. CinchRings™ 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.

ThermalPro® Mechanical Panels

- Tubular copper manifolds from 1” to 6” diameter.
- Stainless steel manifolds with circuit balance valves and flowmeters
- CustomCut™ copper manifolds from 1” to 2” diameter.

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.

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

**Description**
- 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

**Tools:**
- The CinchTool will cinch all sizes of stainless steel CinchClamps
- Crimp tools are available for 3/8” through 1” RadiantPERT.

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