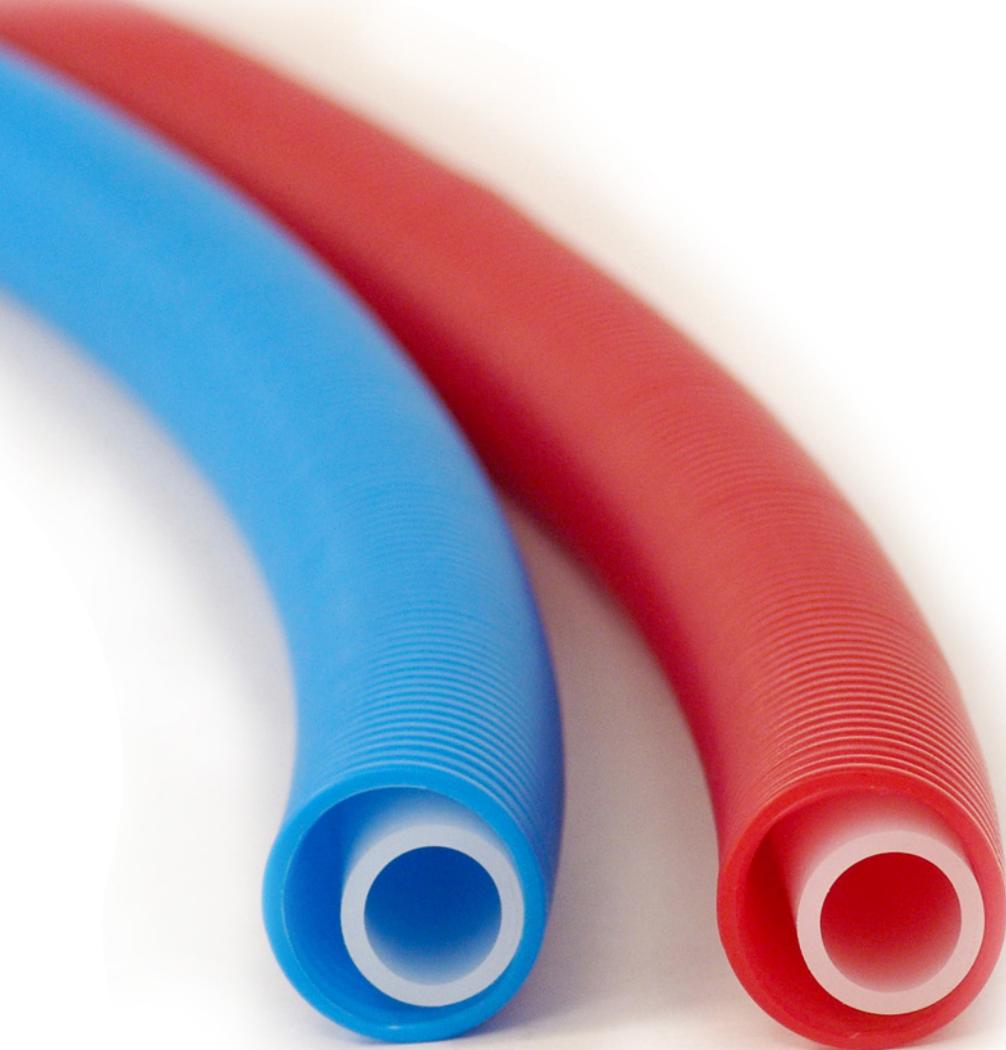




PLUMBING SYSTEMS

PRE-SLEEVED  
UPONOR AQUAPEX®

PRODUCT GUIDE



## Pre-sleeved Uponor AquaPEX®

Ideal for commercial high-rise and residential slab rollout applications, Pre-sleeved Uponor AquaPEX® features high-density polyethylene (HDPE) corrugated sleeves over crosslinked polyethylene (PEX-a) tubing for use in potable hot and cold water distribution systems.

The sleeve provides protection for installations in concrete slabs or soil and allows for quick and easy removal and replacement of the tubing, if necessary, without having to break up the slab or soil.

The HDPE sleeves are available in red or blue to differentiate between hot and cold water lines.

### Features and Benefits

- Wall thickness of 0.3mm
- ½" product features  
25mm outside diameter (o.d.)  
20mm inside diameter (i.d.)
- ¾" product features  
34mm outside diameter (o.d.)  
28mm inside diameter (i.d.)
- ASTM E119 listed by UL
- High-impact strength of 250g, 1m at 32°F (0°C)
- High-compression strength of 200 N
- Working temperature for corrugated sleeve -2.2°F (-19°C) to 194°F (90°C)
- Provides additional tubing protection during installation
- Easy identification of hot and cold water lines
- Quick and easy removal and replacement of tubing without having to break up the slab or soil
- Available in 400-foot coils

## Pre-sleeved Uponor AquaPEX

Part No.	Part Description
F1092500	½" Pre-sleeved Uponor AquaPEX Red Sleeve, 400-ft. coil
F1091500	½" Pre-sleeved Uponor AquaPEX Blue Sleeve, 400-ft. coil
F1092750	¾" Pre-sleeved Uponor AquaPEX Red Sleeve, 400-ft. coil
F1091750	¾" Pre-sleeved Uponor AquaPEX Blue Sleeve, 400-ft. coil

## HDPE Corrugated Sleeves

Part No.	Part Description
F1035400	½" HDPE Corrugated Sleeve, Red, 400-ft. coil
F1055400	½" HDPE Corrugated Sleeve, Blue, 400-ft. coil

### Hydrostatic Temperature and Pressure Ratings

- 200°F (93.3°C) at 80 psi
- 180°F (82.2°C) at 100 psi
- 73.4°F (23°C) at 160 psi

### Codes

- IPC
- UPC
- NSP
- NSPC
- IMC
- UMC
- NPC of Canada
- NBC of Canada

### Standards

- ASTM F876
- ASTM F877
- ASTM F2023
- CSA B137.5
- ANSI/NSF Standard 14
- ANSI/NSF Standard 61

### Listings

- IAPMO
- ICC
- CSA
- cUL
- Warnock Hersey
- UL
- NSF
- ITS
- HUD

### U.S. Fire-rated Assemblies

- Tested in accordance with ASTM E119/UL 263
- G573 — Two-hour Hambro floor/ceiling assembly
- K913 — Two-hour concrete floor/ceiling assembly
- L557 — One-hour wood frame floor/ceiling assembly
- U372 — One-hour wood frame wall assembly
- V444 — One-hour steel stud wall assembly

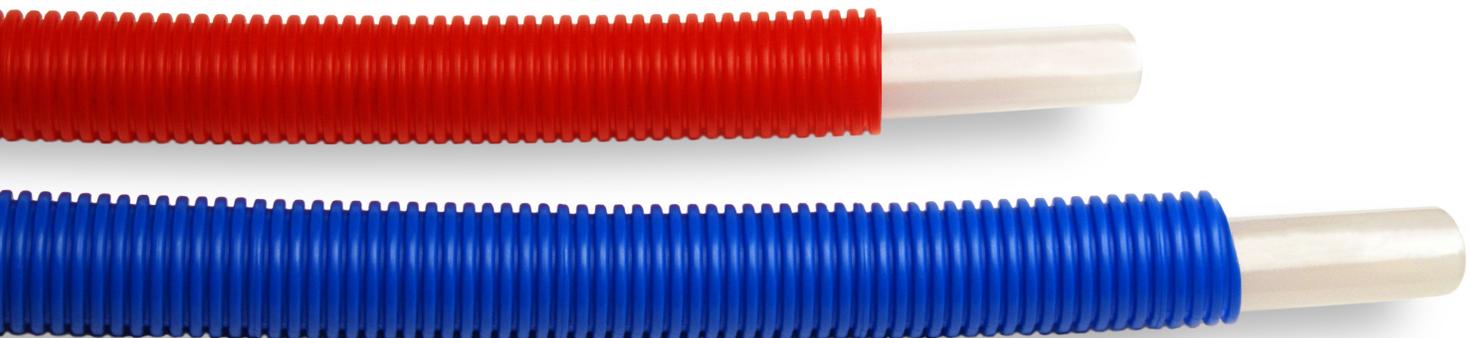
### Canada Fire-rated Assemblies

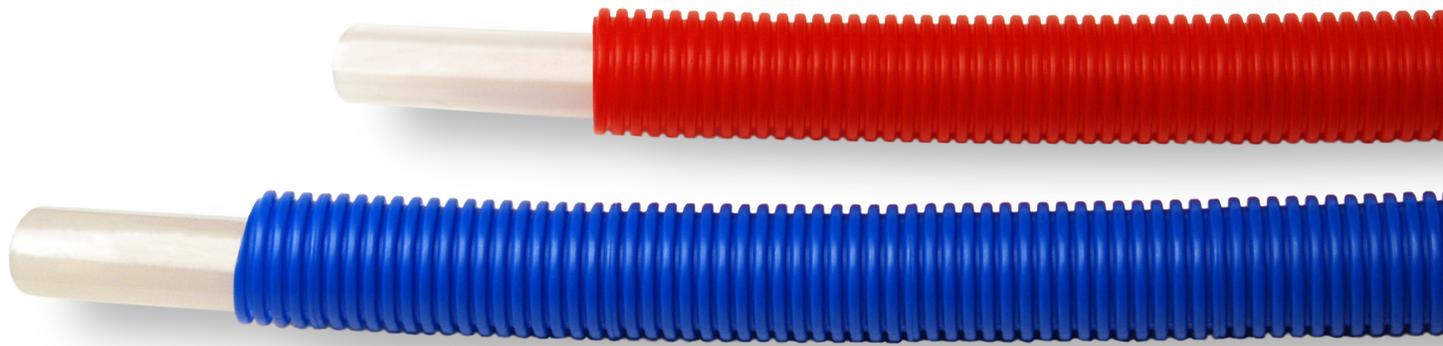
- Tested in accordance with CAN/ULC S101
- G573 — Two-hour Hambro floor/ceiling assembly
- UW/WA 60-01 — One-hour steel stud wall assembly
- UW/WA 60-02 — One-hour wood frame wall assembly
- WC/FCA 60-01 — One-hour wood frame floor/ceiling assembly
- WC/FCA 120-01 — Two-hour concrete floor/ceiling assembly
- WC/FCA 120-02 — Two-hour concrete floor/ceiling assembly

### Plenum Rating

Warnock Hersey listed to 25 flame spread/50 smoke developed to ASTM E84 (U.S.)

- ½" and ¾" with spacing of 18" between each run of tubing CAN/ULC S102.2 (Canada)
- ½" with no spacing restrictions
- ¾" with spacing of 18" between each run of tubing, without water filled





## Pre-sleeved Uponor AquaPEX® FAQs

### What is Pre-sleeved Uponor AquaPEX?

Pre-sleeved Uponor AquaPEX features a high-density polyethylene (HDPE) corrugated sleeve over the tubing for use in hot and cold water distribution systems. The sleeve provides protection for installations in concrete slabs or soil and allows for quick and easy removal and replacement of the tubing if necessary. The HDPE sleeves are available in red or blue to differentiate between hot and cold water lines.

### Where is it used?

Pre-sleeved Uponor AquaPEX tubing is used in commercial high-rise and residential slab rollout applications (in slab, below slab and out slab).

### What products are available?

Pre-sleeved Uponor AquaPEX is available in ½" and ¾" tubing sizes in 400-foot coils. Uponor also offers ½" HDPE corrugated sleeves in 400-foot coils.

### What is the warranty for Pre-sleeved Uponor AquaPEX?

Uponor offers a 25-year limited warranty on the Uponor AquaPEX tubing and ProPEX® fittings when installed by an Uponor-trained professional. The HDPE sleeves carry a one-year warranty. For complete details, see [www.uponorpro.com/warranties](http://www.uponorpro.com/warranties).

### How do you fasten it in an in-slab application?

Fasten Pre-sleeved Uponor AquaPEX to rebar using Uponor Fixing Wire (A7031000) or zip ties. **Important:** When fastening the tubing to the rebar, take care not to damage the corrugated sleeves.

### What is the bend radius of Pre-sleeved Uponor AquaPEX?

The bend radius of Pre-sleeved Uponor AquaPEX is 8 times the tubing's diameter.

### How do you remove the tubing from the sleeve after installation?

Simply disconnect the tubing at the manifold and fixture, pull it through the sleeve and install the new tubing through the sleeve.

### Does the sleeve provide UV protection?

The corrugated sleeve limits UV exposure at the jobsite. However, as with all plastic tubing, you should never expose or store it in direct sunlight for more than 30 days.

### Is Pre-sleeved Uponor AquaPEX chemically resistant to termiticides and pesticides?

The high-density polyethylene (HDPE) corrugated sleeve provides excellent chemical resistance. However, ensure the tubing does not lie in a puddle of termiticides or pesticides.

**Note:** When using Uponor's pre-sleeved tubing products or a protection sleeve around the tubing, an annular gap between the corrugated sleeve and the PEX tubing will exist. In such installations, the installer must fill the annular gap between the sleeve and the PEX tubing at the exposed ends to prevent pathways for pests and the mistaken application of harmful chemicals into this space. Only the following sealants are compatible and may be used with Uponor PEX tubing:

- Latex caulk
- Latex foam
- Silicone sealant
- Polyurethane expanding foam (such as Icynene® LD-C-50™ and MD-C-200™)

### Are there specific code requirements when using corrugated sleeves?

Typically, the tubing inside the sleeve is required to meet the codes. Check with local officials before installing to ensure local building codes are met.

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