RadiantPEX

Cross-linked Polyethylene Tubing w/EVOH Barrier

RadiantPEX+ Tubing CrimpRing Fittings CinchClamp Fittings Compression Fittings

Superior Protection

RadiantPEX+

Now, all 3/8" through 1" Watts RadiantPEX+ has an **outer layer** for greater protection. This outer layer adds several benefits:

- Easier to pull through joists
- Reduces expansion noise in walls and floors
- Protects the oxygen barrier from job-site abuse
- Protects the oxygen barrier against moisture
- Improves flexibility

All of our barrier PEX offers these benefits over traditional piping systems:

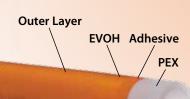
- Light and easy to transport and store
- Extremely flexible
- Maintenance free
- Corrosion resistant
- Connection systems that are fast and reliable

Commercial Approvals:

- Conforms to UL 263 (fire test of building and construction materials)
 - Conforms to ASTM E-84

Silane Cross-linking is Better

Our Superior Silane technology enables higher burst strengths and higher anti-oxidant protection than other PEX manufacturing methods. Silane manufacturing is the most widely used process to manufacture PEX, and has been proven world-wide for over 30 years.













Codes, Listings and Standards

- RadiantPEX+ and RadiantPEX are manufactured to American Standard Testing Methods (ASTM F-876 and F-877) and to SDR9 dimensions. These standards include requirements and testing methods for materials, workmanship, dimensions, environmental stress cracking, sustained hydrostatic pressure strength, bend strength, and degree of cross-linking. RadiantPEX and RadiantPEX+ meet or exceed these standards.
- RadiantPEX+ and RadiantPEX are tested and listed by the National Sanitation Foundation to NSF-14 (rfh).
- RadiantPEX+ and RadiantPEX conform to ASTM E-84 (Standard Test Method for Surface Burning Characteristics of Building Materials) and UL 263 (Fire Tests of Building Construction and Materials).
- RadiantPEX+ and RadiantPEX are listed by the International Code Council Evaluation Service (ICC) to Report #ESR-1155, and PMG-1008 which give compliance to IPC, IMC, UMC, and UPC.
- All RadiantPEX+ and RadiantPEX pipe is certified to CSA Standard B137.5.
- All RadiantPEX+ and RadiantPEX carries a 25-year warranty for residential and commercial heating and snowmelting applications.





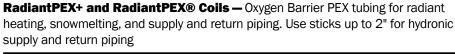








RadiantPEX+™ & RadiantPEX® Tubing





-	opiy and retarn piping			
	DESCRIPTION	MODEL #	ORDER #	WT. (lbs)
	3/8" RadiantPEX+ x 600' Coil	PB032061-600	81000850	26
	1/2" RadiantPEX+ custom length coil	PB032081-1	81010820	_
	1/2" RadiantPEX+ x 100' Coil	PB032081-100	81001680	6
	1/2" RadiantPEX+ x 300' Coil	PB032081-300	81003406	17
	1/2" RadiantPEX+ x 600' Coil	PB032081-600	81001682	27
	1/2" RadiantPEX+ x 1000' Coil	PB032081-1000	81001681	55
	5/8" RadiantPEX+ custom length coil	PB032101-1	81010815	-
	5/8" RadiantPEX+ x 100' Coil	PB032101-100	81010422	10
	5/8" RadiantPEX+ x 300' Coil	PB032101-300	81009852	27
	5/8" RadiantPEX+ x 500' Coil	PB032101-500	81009711	43
ě	5/8" RadiantPEX+ x 600' Coil	PB032101-600	81001684	51
℩	5/8" RadiantPEX+ x 1200' Coil	PB032101-1200	81001683	102
Ver	3/4" RadiantPEX+ custom length coil	PB032121-1	81010819	-
Œ	3/4" RadiantPEX+ x 100' Coil	PB032121-100	81001685	11
4	3/4" RadiantPEX+ x 300' Coil	PB032121-300	81005303	27
	3/4" RadiantPEX+ x 500' Coil	PB032121-500	81001687	44
	3/4" RadiantPEX+ x 600' Coil	PB032121-600	81001688	53
	3/4" RadiantPEX+ x 1000' Coil	PB032121-1000	81009868	88
	3/4" RadiantPEX+ x 1200' Coil	PB032121-1200	81001686	106
	3/4" RadiantPEX+ x 20' sticks (bundle of 25)	PB32121-20	81007368	42
	1" RadiantPEX+ custom length coil	PB032161-1	81010965	-
	1" RadiantPEX+ x 100' Coil	PB032161-100	81004923	18
	1" RadiantPEX+ x 300' Coil	PB032161-300	81009361	26
	1" RadiantPEX+ x 600' Coil	PB032161-600	81002954	107
	1" RadiantPEX+ x 20' sticks (bundle of 5)	PB032161-20	81007367	16
	4/0" 4 4" 5 11 15 15 15 15 15 1 1 1 1 1 1 1 1 1			

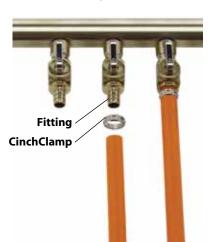
Note: 1/2" through 1" RadiantPEX+ is available in custom lengths. Minimum orders apply.

1-1/4" RadiantPEX x 100' Coil	PB032181-100	81009109	26
1-1/4" RadiantPEX x 300' Coil	PB032181-300	81009110	73
1-1/4" RadiantPEX x 20' sticks (bundle of 5)	PB032181-20	81009118	24
	PB032201-100	81009994	32
2 1-1/2" RadiantPEX x 300' Coil 1-1/2" RadiantPEX x 20' sticks (bundle of 5)	PB032201-300	81009995	95
1-1/2" RadiantPEX x 20' sticks (bundle of 5)	PB032201-20	81009993	32
2" RadiantPEX x 100' Coil	PB032221-100	81010853	43
2" RadiantPEX x 300' Coil	PB032221-300	81010854	129
2" RadiantPEX x 20' sticks (bundle of 5)	PB032221-20	81010855	43



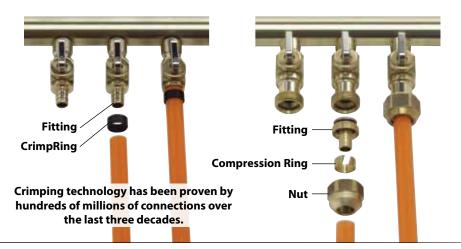
Unlike some PEX connection systems, our three choices for RadiantPEX+ connections can be <u>quickly made</u> and <u>immediately pressure tested</u>.

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

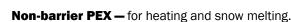


CrimpRings™ are precision-formed, ductile copper connectors. When crimped to brass crimp fittings, these connectors form a permanent seal.

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



Non-Oxygen Barrier PEX Tubing





DESCRIPTION	MODEL #	ORDER #	WT. (lbs)
5/8" WaterPEX x 600' Coil, White	P022101-600W	81004125	48
5/8" WaterPEX x 1200' Coil, White	P022101-1200W	81004126	96
1/2" WaterPEX x 300' Coil, White	P022081-300W	81006282	16
1/2" WaterPEX x 1000' Coil, White	P022081-1000W	81006287	55
3/4" WaterPEX x 500' Coil, White	P022121-500W	81006288	45
3/4" WaterPEX x 1000' Coil, White	P022121-1000W	81004122	106
1" WaterPEX x 100' Coil, White	P022161-100W	81006292	18
1" WaterPEX x 500' Coil, White	P022161-500W	81004124	106
1-1/4" WaterPEX x 100' Coil, White	P022181-100W	81006293	25
1-1/4" WaterPEX x 300' Coil, White	P022181-300W	81004140	72

Note: If using non-barrier WaterPEX for heating or snow melting systems, use a heat exchanger to isolate ferrous components or use a suitable water or glycol treatment.



Copper CrimpRings — for securing PEX to brass crimp fittings.



DESCRIPTION	QTY	MODEL #	ORDER#	WT. (lbs)
3/8" CrimpRing	100	PCCR2X-100	81001071	1
1/2" CrimpRing	100	PCCR3X-100	81001075	1
5/8" CrimpRing	100	PCCR6X-100	81004508	2
3/4" CrimpRing	100	PCCR4X-100	81001080	2
1" CrimpRing	100	PCCR5X-100	81001084	3
1-1/4" CrimpRing	10	PCCR7X-10	81011152	3
ightharpoonup 1-1/2" CrimpRing	10	PCCR9X-10	81011129	1

Copper CrimpRings are precision-formed, ductile copper connectors. When crimped, these connections form a simple, fast, and permanent seal between PEX and CrimpRing fittings. 1-1/2" CrimpRings require a Power Crimp Tool.

Stainless Steel CinchClamps[™] **—** for fast, easy, one-tool connections.



DESCRIPTION	QTY	MODEL #	ORDER#	WT. (lbs)
3/8" CinchClamps	10	PCCC2X-10	81004993	1
3/8" CinchClamps	100	PCCC2X-100	81004994	1
1/2" CinchClamps	10	PCCC3X-10	81004995	1
1/2" CinchClamps	100	PCCC3X-100	81004996	1
5/8" CinchClamps	10	PCCC6X-10	81005114	2
5/8" CinchClamps	100	PCCC6X-100	81005115	3
3/4" CinchClamps	10	PCCC4X-10	81004997	2
3/4" CinchClamps	100	PCCC4X-100	81004998	3
1" CinchClamps	10	PCCC5X-10	81005001	2
1" CinchClamps	100	PCCC5X-100	81005002	3

CinchClamps have been proven in millions of connections.

PEX SST20 Fittings



SST20 Crimp Swivel Fittings — for connecting PEX to Watts Radiant's Stainless Steel and Custom Tubular Compression manifolds.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Crimp x 3/4" SST20 Swivel BSP Fitting	10	PC690001-10	81005160	1
1/2" Crimp x 3/4" SST20 Swivel BSP Fitting	10	PC690002-10	81005162	1
5/8" Crimp x 3/4" SST20 Swivel BSP Fitting	10	PC690003-10	81005164	2
3/4" Crimp x 3/4" SST20 Swivel BSP Fitting	10	PC690004-10	81005395	2

Use these **SST20 Crimp Fittings** to connect PEX to our Stainless Steel or T20 Custom Tubular Manifolds. Order CrimpRings or CinchClamps separately.

Note: BSP Stands for British Standard Pipe (threads). These threads are not compatible with NPT (National Pipe Threads).



SST20 PEX Compression Fittings — for connecting PEX to Stainless Steel manifolds, and Custom Tubular T20 compression manifolds, or 3/4" male BSP x male sweat fittings.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" PEX Compression x 3/4" SST20 Swivel BSP	10	PX690001-10	81005166	1
1/2" PEX Compression x 3/4" SST20 Swivel BSP	10	PX690002-10	81005168	1
5/8" PEX Compression x 3/4" SST20 Swivel BSP	10	PX690003-10	81005170	2
3/4" PEX Compression x 3/4" SST20 Swivel BSP	10	PX690004-10	81005172	2



Crimp x Male Sweat Adapters — for connecting PEX to sweat fittings or manifolds.



DESCRIPTION	QTY	MODEL#	ORDER#	WT. (lbs)
3/8" Crimp x 1/2" Male Sweat Adapter	10	PC637X-10	81001027	1
1/2" Crimp x 1/2" Male Sweat Adapter	10	PC650X-10	81001030	1
5/8" Crimp x 1/2" Male Sweat Adapter	10	PC660X-10	81003685	1
5/8" Crimp x 3/4" Male Sweat Adapter	10	PC670X-10	81003427	1
3/4" Crimp x 3/4" Male Sweat Adapter	10	PC675X-10	81001034	2
1" Crimp x 1" Male Sweat Adapter	10	PC700X-10	81001037	2
1-1/4" Crimp x 1-1/4" Male Sweat Adapter	10	PC725X-10	81005381	3
1-1/2" Crimp x 1-1/2" Male Sweat Adapter	10	PC795X-10	81011130	4

Note: All 1-1/4" crimp fittings are equipped with O-rings. 1-1/2" CrimpRings require a Power Crimp Tool. 3/8" - 1" PEX fittings can be used with either Crimp or Cinch connector. 1-1/4" and larger can only be used with Crimp connectors.



Crimp x Female Sweat Adapters — for connecting PEX to sweat fittings or manifolds.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp x 1/2" Female Sweat Adapter	10	PC750X-10	81001040	1
3/4" Crimp x 3/4" Female Sweat Adapter	10	PC775X-10	81001043	1
1" Crimp x 1" Female Sweat Adapter	10	PC780X-10	81003031	2
1-1/4" Crimp x 1-1/4" Female Sweat Adapter	10	PC785X-10	81009387	2
1-1/2" Crimp x 1-1/2" Female Sweat Adapter	10	PC790X-10	81011131	3

Note: All 1-1/4" crimp fittings are equipped with O-rings. 1-1/2" CrimpRings require a Power Crimp Tool.



Crimp x Male NPT Adapters — for connecting PEX to female fittings and valves.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Crimp x 1/2" MPT Adapter	10	PCMC23X-10	81005382	2
1/2" Crimp x 1/2" MPT Adapter	10	PCMC33X-10	81005383	2
1/2" Crimp x 3/4" MPT Adapter	10	PCMC34X-10	81005384	2
5/8" Crimp x 3/4" MPT Adapter	10	PCMC64X-10	81005385	2
3/4" Crimp x 1/2" MPT Adapter	10	PCMC43X-10	81005386	2
3/4" Crimp x 3/4" MPT Adapter	10	PCMC44X-10	81005387	2
1" Crimp x 1" MPT Adapter	10	PCMC55X-10	81005388	3
1-1/4" Crimp x 1-1/4" MPT Adapter	10	PCMC78X-10	81005389	3
2 1-1/2" Crimp x 1-1/2" MPT Adapter	10	PCMC99X-10	81011132	4

Note: All 1-1/4" crimp fittings are equipped with O-rings. 1-1/2" CrimpRings require a Power Crimp Tool.



Crimp x Male NPT Elbows

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp x 1/2" MPT Elbow	10	PCE33BTX-10	81005390	2
1/2" Crimp x 3/4" MPT Elbow	10	PCE34BTX-10	81005391	3
3/4" Crimp x 3/4" MPT Elbow	10	PCE44BTX-10	81005392	3



Crimp x Female Sweat Elbow

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp x 3/4" Female Sweat Elbow	10	PCE34-10	81005393	3
5/8" Crimp x 3/4" Female Sweat Elbow	10	PCE64-10	81004786	3
3/4" Crimp x 3/4" Female Sweat Elbow	10	PCE44-10	81005394	3

Use these **Crimp x Sweat Elbow Fittings** to speed the connection of PEX supply lines to baseboard and hydro-air units.



Crimp x Male Sweat Elbow

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp x 3/4" Male Sweat Elbow	10	PCE34M-10	81009374	3
3/4" Crimp x 3/4" Male Sweat Elbow	10	PCE44M-10	81009378	3

Use these ${\bf Crimp\ x\ Sweat\ Elbow\ Fittings}$ to speed the connection of PEX supply lines to baseboard and hydro-air units.

RadiantPEX



Crimp x Crimp Elbows (Equal Elbows)

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp Elbow	10	PCE33X-10	81001104	1
3/4" Crimp Elbow	10	PCE44X-10	81001119	1
1" Crimp Elbow	10	PCE55X-10	81003049	2
1-1/4" Crimp Elbow	10	PCE77X-10	81009365	3

Crimp x Crimp Tees (Equal Tees)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp Tee	10	PCT333X-10	81001186	1
3/4" Crimp Tee	10	PCT444X-10	81001200	2
1" Crimp Tee	10	PCT555X-10	81003075	3
1-1/4" Crimp Tee	10	PCT777X-10	81009793	3

1

Crimp x Crimp Tees (Unequal Tees) — Run x Run x Branch (1x2x3)

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" x 1/2" x 3/4" Crimp Tee	10	PCT334X-10	81003069	1
3/4" x 3/4" x 1/2" Crimp Tee	10	PCT443X-10	81001197	2
1" x 1" x 3/4" Crimp Tee	10	PCT554X-10	81001208	3
1-1/4" x 1-1/4" x 1" Crimp Tee	10	PCT775X-10	81009794	3

$\label{lines.Couplings-formaking field repairs or extending PEX lines.} \label{lines.Couplings-formaking field repairs} \textbf{Crimp Brass Couplings-} \textbf{for making field repairs or extending PEX lines.}$





DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Crimp Coupling	10	PCC22X-10	81005374	1
1/2" Crimp Coupling	10	PCC33X-10	81005375	1
5/8" Crimp Coupling	10	PCC66X-10	81005376	1
3/4" Crimp Coupling	10	PCC44X-10	81005377	2
1" Crimp Coupling	10	PCC55X-10	81005378	2
1-1/4" Crimp Coupling	10	PCC77X-10	81005380	3
1-1/2" Crimp Coupling	10	PCC99X-10	81011154	5

Use **Crimp x Crimp Brass Couplings** to make field repairs and connections when necessary. Be sure to closely follow all guidelines when making field repairs or connections.All 1-1/4" crimp fittings are equipped with O-rings.



CinchClamp Repair Kits — for making PEX repairs in the field.



DESCRIPTION	QTY	MODEL #	ORDER#	WT. (lbs)
3/8" CinchClamp Repair Kit	1 Kit	PCCCA2K	81005022	1
1/2" CinchClamp Repair Kit	1 Kit	PCCCA3K	81005023	1
5/8" CinchClamp Repair Kit	1 Kit	PCCCA6K	81005326	1
3/4" CinchClamp Repair Kit	1 Kit	PCCCA4K	81005024	1
1" CinchClamp Repair Kit	1 Kit	PCCCA5K	81005025	1

Each CinchClamp Repair Kit contains two double-ended barbs and four CinchClamps, enough for two splices. Each kit includes instructions to help insure that the repair is done properly.

CrimpRing Repair Kits — for making PEX repairs in the field.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" CrimpRing Repair Kit	1 Kit	PCCA2K	81001063	1
1/2" CrimpRing Repair Kit	1 Kit	PCCA3K	81001064	1
5/8" CrimpRing Repair Kit	1 Kit	PCCA6K	81003429	1
3/4" CrimpRing Repair Kit	1 Kit	PCCA4K	81001065	1
1" CrimpRing Repair Kit	1 Kit	PCCA5K	81001066	1
1-1/4" CrimpRing Repair Kit	1 Kit	PCCA7K	81004450	1
1-1/2" CrimpRing Repair Kit (2 couplings, 4 rings)	1 Kit	PCCA9K	81011155	1

Each CrimpRing Repair Kit contains two double-ended barbs and four CrimpRings, enough for two splices. Each kit includes instructions to help insure that the repair is done properly.



1/2" Crimp x 1/2" Male Sweat MBV

Mini Ball and Balancing Valves — for circuit isolation and balancing on field-built manifolds.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Crimp x 1/2" Male Sweat Mini Ball Valve (0.44" bore)	1	P12123PX3	81000783	2
1/2" Crimp x 1/2" Male Sweat Mini Balancing Valve (0.44" bore)	1	P12123PX3-BAL	81005416	4



1/2" Crimp x 1/2" Male Sweat MBV-BAL

Use Mini Ball Valves to isolate and/or regulate the flow of individual tubing circuits. For more exact flow balancing, use Mini Balancing Valves, where balancing is accomplished by rotating the threaded spindle below the brass safety cap. Each turn represents approximately 10% of full flow. Approximate Cv is 3.0 (These ball valves are not available in other sizes.)

PEX Compression Fittings

SST20 3/4" Male BSP x Male Sweat Fittings — for use with SST20 Crimp or Compression fittings.



3/4" Male BSP x 1/2" Male Sweat

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/4" Male BSP x 1/2" Male Sweat Fitting	10	PX690500-10	81001507	1
3/4" Male BSP x 3/4" Male Sweat Fitting	10	PX690750-10	81001510	2

These fittings are manufactured for use with SST20 fittings (threaded female) and are offered in two sizes to fit 1/2" or 3/4" copper fittings. Male fittings are also available pre-installed on all styles of Watts Radiant manifolds.

Note: BSP threads are not compatible with NPT (National Pipe Threads).



PEX Compression Fittings



SST20 Compression Coupling Kits — for joining lengths of PEX.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
SST20 Comp. Coupling Kit for 3/8" PEX	1 Kit	PXCASST2K	81005174	1
SST20 Comp. Coupling Kit for 1/2" PEX	1 Kit	PXCASST3K	81005175	1
SST20 Comp. Coupling Kit for 5/8" PEX	1 Kit	PXCASST4K	81005176	1
SST20 Comp. Coupling Kit for 3/4" PEX	1 Kit	PXCASST5K	81005177	2

Compression Coupling Kits consist of two Compression Couplings and four female Compression fittings.

Note: BSP stands for British Standard Pipe (threads). These threads are not compatible with NPT (National Pipe Threads).

Note: Most building codes do not allow compression couplings in inaccessible locations. Do not bury compression fittings.



PEX Compression Fittings for Large Diameter PEX

Note: These fittings are not designed for use with R-flex insulated pipe.

PEX Compression Couplings for Large Diameters — for connecting PEX lines.



DESCRIPTION	QTY	MODEL #	ORDER#	WT. (lbs)
1-1/2" x 1-1/2" PEX Compression Coupling	1	PCMP99	81011477	4
2" x 2" PEX Compression Coupling	1	PCMP110	81011488	5

Brass fittings with EPDM gasket, locking split clamp, and insert stiffener.

PEX Compression x MPT for Large Diameters — for connecting PEX to fittings or valves.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1-1/2" PEX Compression x 1-1/2" MPT	1	PCMM99	81011478	3
2" PEX Compression x 2" MPT	1	PCMM110	81011490	3

Brass fittings with EPDM gasket, locking split clamp, and insert stiffener.

PEX Compression Elbows for Large Diameters — for making tight bends with large PEX.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1-1/2" PEX Compression Elbow	1	PCEC99	81011479	5
2" PEX Compression Elbow	1	PCEC110	81011489	10

Brass fittings with EPDM gasket, locking split clamp, and insert stiffener.

PEX Compression x MPT Elbows for Large Diameters



DESCRIPTION	QTY	MODEL #	ORDER#	WT. (lbs)
1-1/2" PEX Compression x 1-1/2" MPT Elbow	1	PCEM99	81011480	3
2" PEX Compression x 2" MPT Elbow	1	PCEM110	81011491	4

Brass fittings with EPDM gasket, locking split clamp, and insert stiffener.