

# RadiantPEX-AL™

Cross-Linked Polyethylene x Aluminum x Cross-Linked Polyethylene

RadiantPEX-AL Tubing

RadiantPEX-AL Fittings

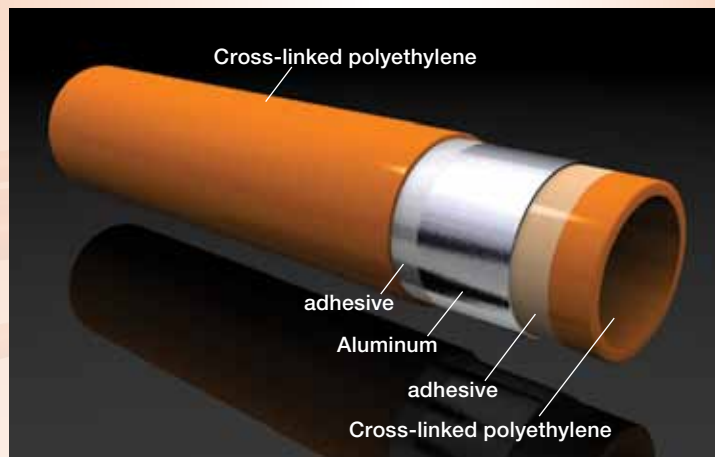
## The RadiantPEX-AL Advantage.

RadiantPEX-AL is a proven, long lasting composite pipe engineered for radiant floor heating, snow melting, and distribution piping.

- RadiantPEX-AL installs faster than PEX because it holds its shape, even with one installer.
- RadiantPEX-AL has very little expansion/contraction (about 1/8 that of PEX), so it's ideal for "dry" applications or high temperature distribution piping.
- RadiantPEX-AL retains its flexibility in cold temperatures, so it can be easily installed in winter weather.

## RadiantPEX-AL Is Built to Last.

RadiantPEX-AL pipe and fittings are manufactured to meet or exceed ASTM requirements.

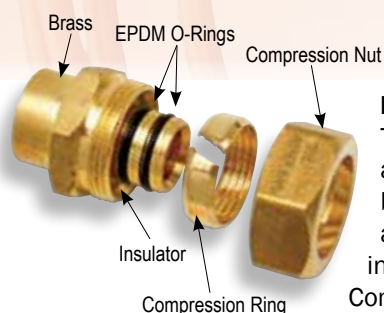
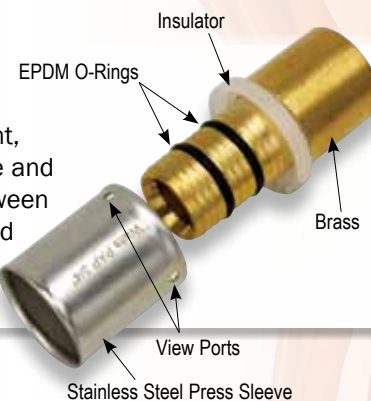


RadiantPEX-AL pipe is constructed with 5 layers, each providing strength, durability, and longevity.

## RadiantPEX-AL Press Fittings

Watts Radiant's line of Press fittings offers a clean, reliable method of connection for RadiantPEX-AL. The Stainless Steel sleeve creates a permanent, unyielding union on the outside, while the double O-rings form a dependable and redundant internal seal. A polyethylene insulator protects against corrosion between brass and aluminum pipe layers. Choose from a wide variety of fitting styles and sizes to suit your needs and use just one tool to make all your connections.

Press fittings are listed by NSF to NSF-rfh and carry the UPC mark.



## RadiantPEX-AL Compression Fittings

The RadiantPEX-AL compression fitting system from Watts Radiant is as simple as it looks. All you need is a box-end wrench to tighten the nut. Made of solid brass, these fittings are made for long, trouble-free service. Double O-rings and a brass compression ring ensure a leak-proof connection. A polyethylene insulator protects against corrosion between brass and aluminum pipe layers. Compression fittings are listed by NSF to NSF-rfh.

## Codes, Listings, and Standards.

**Tubing:** RadiantPEX-AL is manufactured in accordance with American Standard Testing Methods (ASTM) F-1281-2005, is tested and listed by the National Sanitation Foundation (NSF-rfh), and carries the UPC certification mark, as approved by the International Association of Plumbing and Mechanical Officials (IAPMO).

**Fittings:** Press and Compression Fittings are tested and listed by NSF (NSF-rfh).

## RadiantPEX-AL Guarantee.

All RadiantPEX-AL carries a 25-year warranty for residential and commercial heating and snow melting applications.



## RadiantPEX-AL Tubing



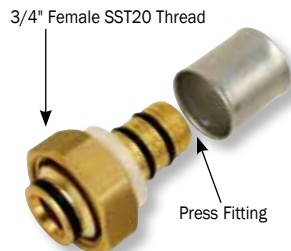
**RadiantPEX-AL Coils** — RadiantPEX-AL can be shaped to fit any job-site condition. Use it for all floor heating and snow melting, as well as supply piping for other hydronic applications.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
<b>NEW</b> 3/8" x 200' (Coil), RadiantPEX-AL	1	RL06-200-OR	81011133	18
1/2" x 300' (Coil), RadiantPEX-AL	1	RL0508-300-OR	81010635	23
1/2" x 500' (Coil), RadiantPEX-AL	1	RL0508-500-OR	81010634	36
1/2" x 1000' (Coil), RadiantPEX-AL	1	RL0508-1000-OR	81010637	70
5/8" x 300' (Coil), RadiantPEX-AL	1	RL10-300-OR	81007605	35
5/8" x 1200' (Coil), RadiantPEX-AL	1	RL10-1200-OR	81007606	130
3/4" x 100' (Coil), RadiantPEX-AL	1	RL12-100-OR	81007607	18
3/4" x 300' (Coil), RadiantPEX-AL	1	RL12-300-OR	81007608	48
3/4" x 500' (Coil), RadiantPEX-AL	1	RL12-500-OR	81007609	73
1" x 100' (Coil), RadiantPEX-AL	1	RL16-100-OR	81007610	20
1" x 300' (Coil), RadiantPEX-AL	1	RL16-300-OR	81007611	54

## RadiantPEX-AL Press Fittings

Press sleeves are included with all press fittings.

**SST20 RadiantPEX-AL (3/4 FBSP) Press Fitting** — for stainless steel and T-20 manifolds.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press x Adapter, 3/4" SST20 BSP	10	RLP0501B08T20-10	81010719	1
5/8" Press x Adapter, 3/4" SST20 BSP	10	RLP01B10T20-10	81008030	1

**Note:** BSP threads are not compatible with NPT.

**RadiantPEX-AL Adapter — Press x Male Sweat (Copper Fitting)**



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press x 1/2" Male Sweat, Adapter	10	RLP0510B0808-10	81010725	1
1/2" Press x 3/4" Male Sweat, Adapter	10	RLP0510B0812-10	81010721	1
5/8" Press x 1/2" Male Sweat, Adapter	10	RLP10B1008-10	81008036	2
5/8" Press x 3/4" Male Sweat, Adapter	10	RLP10B1012-10	81008038	2
3/4" Press x 3/4" Male Sweat, Adapter	10	RLP10B1212-10	81008040	3
1" Press x 1" Male Sweat, Adapter	5	RLP10B1616-5	81008042	3

O-rings and Insulators are shipped loose for all sweat fittings

**RadiantPEX-AL Adapter — Press x Female Sweat (Copper Adapter)**

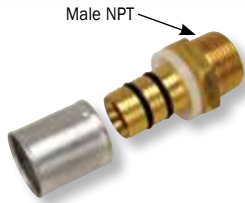


DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press x 1/2" Female Sweat, Adapter	10	RLP0511B0808-10	81010727	1
5/8" Press x 3/4" Female Sweat, Adapter	10	RLP11B1012-10	81008046	2
3/4" Press x 3/4" Female Sweat, Adapter	10	RLP11B1212-10	81008048	2

O-rings and Insulators are shipped loose for all sweat fittings

## RadiantPEX-AL Press Fittings

### RadiantPEX-AL Adapter - Press x Male NPT



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press x 3/4" MPT, Adapter	10	RLP0512B0812-10	81010723	2
5/8" Press x 3/4" MPT, Adapter	10	RLP12B1012-10	81008052	2
3/4" Press x 3/4" MPT, Adapter	10	RLP12B1212-10	81008054	3
1" Press x 1" MPT, Adapter	5	RLP12B1616-5	81008056	3

### RadiantPEX-AL Press Elbow - Press x Male Sweat



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press x 3/4" Male Sweat, Elbow	10	RLP0540B0812-10	81010704	2
5/8" Press x 3/4" Male Sweat, Elbow	10	RLP40B1012-10	81008518	3
3/4" Press x 3/4" Male Sweat, Elbow	10	RLP40B1212-10	81008520	3

O-rings and Insulators are shipped loose for all sweat fittings

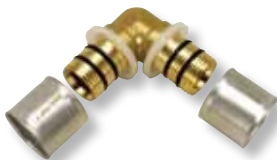
### RadiantPEX-AL Press Elbow - Press x Female Sweat



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press x 3/4" Female Sweat, Elbow	10	RLP05410812-10	81010706	2
5/8" Press x 3/4" Female Sweat, Elbow	10	RLP411012-10	81008524	3
3/4" Press x 3/4" Female Sweat, Elbow	10	RLP411212-10-10	81008526	3

O-rings and Insulators are shipped loose for all sweat fittings


### RadiantPEX-AL Press Elbows (Equal elbows)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press Elbow	10	RLP0519B0808-10	81010702	1
5/8" Press Elbow	10	RLP19B1010-10	81008068	1
3/4" Press Elbow	10	RLP19B1212-10	81008070	2
1" Press Elbow	5	RLP19B1616-5	81008072	2

### RadiantPEX-AL Press Tees (Equal Tees)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
 1/2" Press Tee	10	RLP0518B080808-10	81011309	3
3/4" Press Tee	10	RLP18B121212-10	81008074	3
1" Press Tee	5	RLP18B161616-5	81008076	3

### RadiantPEX-AL Press Tees (Unequal Tees) (1x2x3)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" x 1/2" x 3/4" Press Tee, Reducing	10	RLP0518B080812-10	81010643	2
3/4" x 3/4" x 1/2" Press Tee, Reducing	10	RLP0518B121208-10	81010641	2
1" x 1" x 5/8" Press Tee, Reducing	5	RLP18B161610-5	81008082	3
1" x 1" x 3/4" Press Tee, Reducing	5	RLP18B161612-5	81008084	3

For Pricing, Please See Watts Radiant Price Guide.

## RadiantPEX-AL Press Fittings



### RadiantPEX-AL Press Couplings

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Press Coupling	10	RLP0515B0808-10	81010714	1
5/8" Press Coupling	10	RLP15B1010-10	81008060	1
3/4" Press Coupling	10	RLP15B1212-10	81008062	2
1" Press Coupling	5	RLP15B1616-5	81008064	2

### RadiantPEX-AL Extra Sleeves for Press Fittings



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Extra Press Sleeve	10	RLP0542S08-10	81010648	.5
5/8" Extra Press Sleeve	10	RLP42S10-10	81008559	.5
3/4" Extra Press Sleeve	10	RLP42S12-10	81008560	.5
1" Extra Press Sleeve	10	RLP42S16-10	81008561	.5

Extra Sleeves are only needed if they are damaged or lost in the field.

### RadiantPEX-AL Extra Insulators for Press Fittings



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Extra Press Fitting Insulator	10	RLP0543IN08-10	81010699	.5
5/8" Extra Press Fitting Insulator	10	RLP43IN10-10	81008563	.5
3/4" Extra Press Fitting Insulator	10	RLP43IN12-10	81008564	.5
1" Extra Press Fitting Insulator	10	RLP43IN16-10	81008565	.5

Extra Insulators are only needed if they are damaged or lost in the field.

### RadiantPEX-AL Extra O-ring for Press Fittings



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Extra Press Fitting O-Ring	10	RLP0544OR08-10	81010652	.5
5/8" Extra Press Fitting O-Ring	10	RLP44OR10-10	81008567	.5
3/4" Extra Press Fitting O-Ring	10	RLP44OR12-10	81008568	.5
1" Extra Press Fitting O-Ring	10	RLP44OR16-10	81008569	.5

Extra O-rings are only needed if they are damaged or lost in the field.

## RadiantPEX-AL Compression Fittings



### RadiantPEX-AL SST20 Compression Fitting — for stainless steel and T20 manifolds.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
<b>NEW</b> 3/8" Compression x 3/4" SST20 BSP, Adapter	10	RLC01B06T20-10	81011138	1
1/2" Compression x 3/4" SST20 BSP, Adapter	10	RLC0501B08T20-10	81010735	1
5/8" Compression x 3/4" SST20 BSP, Adapter	10	RLC01B10T20-10	81008088	2
3/4" Compression x 3/4" SST20 BSP, Adapter	10	RLC01B12T20-10	81007735	2

Compression nut and ring included with all compression fittings.

**Note:** BSP threads are not compatible with NPT.



## RadiantPEX-AL Compression Fittings (continued)

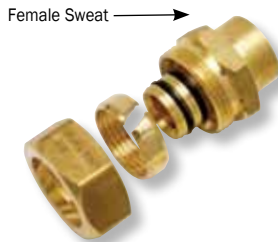
### RadiantPEX-AL Adapter — Compression x Male Sweat



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
<b>NEW</b> 3/8" Compression x 1/2" Male Sweat, Adapter	10	RLC10B0608-10	81011139	1
1/2" Compression x 1/2" Male Sweat, Adapter	10	RLC0510B0808-10	81010731	1
5/8" Compression x 1/2" Male Sweat, Adapter	10	RLC10B1008-10	81008092	1
5/8" Compression x 3/4" Male Sweat, Adapter	10	RLC10B1012-10	81008094	2
3/4" Compression x 3/4" Male Sweat, Adapter	10	RLC10B1212-10	81008096	2
1" Compression x 1" Male Sweat, Adapter	5	RLC10B1616-5	81008098	3

O-rings and Insulators are shipped loose on all sweat fittings.

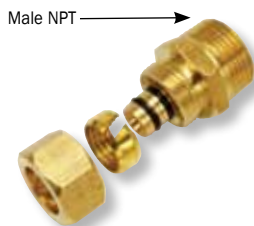
### RadiantPEX-AL Adapter — Compression x Female Sweat



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
<b>NEW</b> 3/8" Compression x 1/2" Female Sweat, Adapter	10	RLC11B0608-10	81011140	1
1/2" Compression x 1/2" Female Sweat, Adapter	10	RLC0511B0808-10	81010732	1
5/8" Compression x 3/4" Female Sweat, Adapter	10	RLC11B1012-10	81008102	2
3/4" Compression x 3/4" Female Sweat, Adapter	10	RLC11B1212-10	81008104	2
1" Compression x 1" Female Sweat, Adapter	5	RLC11B1616-5	81013675	2

O-rings and Insulators are shipped loose on all sweat fittings.

### RadiantPEX-AL Adapter — Compression x Male NPT



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Compression x 3/4" MPT, Adapter	10	RLC0512B0812-10	81010729	2
5/8" Compression x 3/4" MPT, Adapter	10	RLC12B1012-10	81008108	2
3/4" Compression x 3/4" MPT, Adapter	10	RLC12B1212-10	81008110	3
1" Compression x 1" MPT, Adapter	5	RLC12B1616-5	81008112	3

### RadiantPEX-AL Adapter — Compression x Female NPT



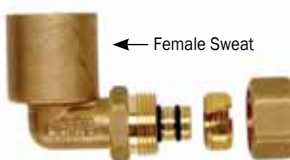
DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1" Compression x 1" FPT, Adapter	5	RLC13B1616-5	81013676	2

### RadiantPEX-AL Compression Elbow — Compression x Male Sweat



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Compression x 3/4" Male Sweat, Elbow	10	RLC0540B0812-10	81010708	2
5/8" Compression x 3/4" Male Sweat, Elbow	10	RLC40B1012-10	81008530	3
3/4" Compression x 3/4" Male Sweat, Elbow	10	RLC40B1212-10	81008532	3

### RadiantPEX-AL Compression Elbow — Compression x Female Sweat




DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Compression x 3/4" Female Sweat, Elbow	10	RLC0541B0812-10	81010710	2
5/8" Compression x 3/4" Female Sweat, Elbow	10	RLC41B1012-10	81008536	3
3/4" Compression x 3/4" Female Sweat, Elbow	10	RLC41B1212-10	81008538	3

O-rings and insulators are shipped loose on all sweat fittings.

## RadiantPEX-AL Compression Fittings

### RadiantPEX-AL Compression Couplings (Equal)



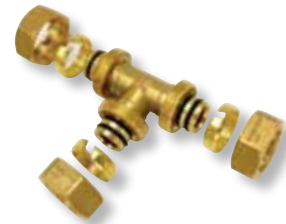
DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
 3/8" Compression Coupling	10	RLC15B0606-10	81011141	1
1/2" Compression Coupling	10	RLC0515B0808-10	81010716	1
5/8" Compression Coupling	10	RLC15B1010-10	81008116	1
3/4" Compression Coupling	10	RLC15B1212-10	81008118	2
1" Compression Coupling	5	RLC15B1616-5	81008120	2

### RadiantPEX-AL Compression Elbow (Equal)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
5/8" Compression Elbow	10	RLC19B1010-10	81008122	1
3/4" Compression Elbow	10	RLC19B1212-10	81008124	2
1" Compression Elbow	5	RLC19B1616-5	81008127	2

### RadiantPEX-AL Compression Tee (Equal)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/4" Compression Tee	10	RLC18B121212-10	81008129	3
1" Compression Tee	5	RLC18B161616-5	81008131	3


### RadiantPEX-AL Compression Reducing Tee – Run x Run x Branch - (1x2x3)



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/4" x 3/4" x 1/2" Compression Reducing Tee	10	RLC0518B121208-10	81010646	2
1" x 1" x 5/8" Compression Reducing Tee	10	RLC18B161610-10	81008135	3
1" x 1" x 3/4" Compression Reducing Tee	5	RLC18B161612-5	81008137	3

### RadiantPEX-AL Extra Insulators for Compression Fittings




DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
 3/8" Extra Compression Fitting Insulator	10	RLC43IN06-10	81011165	.5
1/2" Extra Compression Fitting Insulator	10	RLC0543IN08-10	81010697	.5
5/8" Extra Compression Fitting Insulator	10	RLC43IN10-10	81009456	.5
3/4" Extra Compression Fitting Insulator	10	RLC43IN12-10	81009458	.5
1" Extra Compression Fitting Insulator	10	RLC43IN16-10	81009460	.5

Extra insulators are only needed if they are damaged or lost in the field.

### RadiantPEX-AL Extra O-Rings for Compression Fittings



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
 3/8" Extra Compression Fitting O-Rings	10	RLC44OR06-10	81011167	.5
1/2" Extra Compression Fitting O-Rings	10	RLC0544OR08-10	81010652	.5
5/8" Extra Compression Fitting O-Rings	10	RLC44OR10-10	81008567	.5
3/4" Extra Compression Fitting O-Rings	10	RLC44OR12-10	81008568	.5
1" Extra Compression Fitting O-Rings	10	RLC44OR16-10	81008569	.5

Extra O-rings are only needed if they are damaged or lost in the field.