

# ONIX™

**Onix Radiant Tubing Onix Clamps Onix Fittings**



Onix is an EPDM-based, aramid fiber reinforced tube with an aluminum oxygen barrier. Its unmatched flexibility and durability make Onix the best tubing for underfloor radiant, cold weather installations, and snow melt.

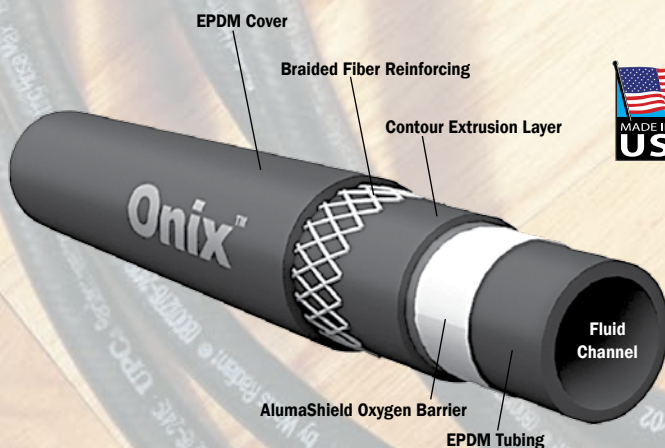
- **Proven in tens of thousands of installations across North America.**
- **Onix is Easy to Install at Any Temperature, Cutting Installation Times by as Much as 50%!**
- **Onix Does Not Expand or Contract, and will Never Make Any Noise.**
- **Onix has Excellent UV Resistance.**
- **Onix is Not Damaged by Kinking.**

Unlike PEX, Onix does not expand and contract and it always stays in contact with the subfloor, making it ideal for Underfloor applications.

Underfloor radiant lets builders construct a home the way they normally do, without pouring concrete, double plating, or other special considerations that can stop a radiant project in its tracks.

With remodels on the rise, Onix is a great way to tap into this growing market. You can easily snake Onix through floor joists, around nails, piping, ducts and other obstacles you're sure to find in a remodel project.

Onix carries a 25-year warranty for residential and commercial heating and snowmelting applications.



**WattsRadiant™**  
Floor Heating & Snow Melting



## Onix™ Radiant Tubing

**Standard Onix Coils** — Oxygen barrier tubing for radiant heating, snow melting, and supply & return piping.

DESCRIPTION	MODEL #	ORDER #	WT. (lbs)
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### 3/8" Onix

3/8" Onix x 120' Coil	086061-120	81001556	22
3/8" Onix x 140' Coil	086061-140	81001557	25
3/8" Onix x 160' Coil	086061-160	81001558	29
3/8" Onix x 180' Coil	086061-180	81001559	32
3/8" Onix x 200' Coil	086061-200	81001560	36
3/8" Onix x 600' Spool	086061-600	81001565	108

### 1/2" Onix

1/2" Onix x 200' Coil	086081-200	81001579	46
1/2" Onix x 250' Coil	086081-250	81001582	58
1/2" Onix x 300' Coil	086081-300	81001584	69
1/2" Onix x 400' Spool	086081-400	81001587	92
1/2" Onix x 600' Spool	086081-600	81001590	138

### 5/8" Onix

5/8" Onix x 50' Coil	086101-50	81001612	13
5/8" Onix x 100' Coil	086101-100	81001600	25
5/8" Onix x 200' Coil	086101-200	81001603	50
5/8" Onix x 300' Spool	086101-300	81001605	75
5/8" Onix x 400' Spool	086101-400	81001609	100
5/8" Onix x 600' Spool	086101-600	81001616	150

### 3/4" Onix

3/4" Onix x 50' Coil	086121-50	81001635	18
3/4" Onix x 100' Coil	086121-100	81001627	35
3/4" Onix x 200' Coil	086121-200	81001629	70
3/4" Onix x 300' Spool	086121-300	81001631	105
3/4" Onix x 400' Spool	086121-400	81001634	140

### 1" Onix

1" Onix x 50' Coil	086161X-50	81001647	28
1" Onix x 100' Spool	086161X-100	81001642	55
1" Onix x 200' Spool	086161X-200	81001644	110

Onix with AlumaShield oxygen barrier is rated to 180°F at 100 psi.

Onix tubing can be special ordered in other lengths; round 3/8" Onix to the nearest 20' length desired, and all other sizes to the nearest 25'.

Onix is tested to relevant portions of several ASTM standards and carries the UPC mark as approved by the International Association of Plumbing and Mechanical Officials (IAPMO).



See ICC-ES Legacy Report No. 95-47.02





### The Word from the Field about Onix . . .

“Onix is our preferred tubing for staple-up. It flexes like rope, can be doubled-up and pushed through holes, and flattens slightly during staple-up, greatly improving heat transfer.”

—Dave Yates  
F. W. Behler, Inc.

**Onix Baseboard Coils** — for connecting to baseboard, fan coils, or kick space heaters.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Onix x 50'	1	086081-50	81001588	12
1/2" Onix x 100'	1	086081-100	81001576	24
5/8" Onix x 50'	1	086101-50	81001612	13
5/8" Onix x 100'	1	086101-100	81001600	25
5/8" Onix x 200'	1	086101-200	81001603	50
3/4" Onix x 50'	1	086121-50	81001635	18
3/4" Onix x 100'	1	086121-100	81001627	35
3/4" Onix x 200'	1	086121-200	81001629	70

**Onix Baseboard/Kickspace Fitting Kits** — Make connections to baseboard or kickspace heaters even simpler with these kits.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Onix Baseboard Fittings Kit	1	ONIXBBKIT500	81012659	1
5/8" Onix Baseboard Fittings Kit	1	ONIXBBKIT625	81012660	2
3/4" Onix Baseboard Fittings Kit	1	ONIXBBKIT750	81012661	2

**Each kit contains the following items:**

- (1) Onix x Female Sweat elbow
- (1) Onix x Male Sweat elbow
- (2) Onix x Male Sweat barbs
- (4) Onix SelfTite Clamps

**Onix™** is fast, quiet, hassle free, and remains highly flexible in cold conditions.





## Onix Fittings

**SelfTite™ Clamps** — Pre-tensioned for easy field installation. The chrome-vanadium spring steel maintains a constant tension on the Onix under all operating conditions. SelfTites incorporate a zinc coating to guard against corrosion.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" SelfTite Clamp (19 mm)	10	663019-10	81000523	3
3/8" SelfTite Clamp (19 mm)	50	663019-50	81000524	8
1/2" SelfTite Clamp (22 mm)	10	663022-10	81000526	4
1/2" SelfTite Clamp (22 mm)	50	663022-50	81000527	10
5/8" SelfTite Clamp (25 mm)	10	663025-10	81000529	4
5/8" SelfTite Clamp (25 mm)	50	663025-50	81000530	10
3/4" SelfTite Clamp (29 mm)	10	663029-10	81000532	5
3/4" SelfTite Clamp (29 mm)	50	663029-50	81000533	11

**TorqueTite™ Clamps** — our best stainless steel screw clamps.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" TorqueTite Clamp (17–19 mm)	10	6641117-10	81002913	2
3/8" TorqueTite Clamp (17–19 mm)	50	6641117-50	81002914	6
1/2" TorqueTite Clamp (21–23 mm)	10	6641524-10	81002916	2
5/8" TorqueTite Clamp (25–27 mm)	10	6641928-10	81002919	2
3/4" TorqueTite Clamp (29–31 mm)	10	6642232-10	81002922	2
1" TorqueTite Clamp (37–40 mm)	10	6643244-10	81002925	3

The Onix **TorqueTite** is a rugged, stainless steel clamp capable of withstanding large pressures and temperatures while being easy to install. Do not overtighten!

**SST20 Onix Swivel Fittings** — for Stainless Steel, and Custom Tubular Manifolds.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Onix x 3/4" BSP Swivel Fitting	10	689001-10	81000679	1
1/2" Onix x 3/4" BSP Swivel Fitting	10	689002-10	81000681	1
5/8" Onix x 3/4" BSP Swivel Fitting	10	689003-10	81000683	2
3/4" Onix x 3/4" BSP Swivel Fitting	10	689004-10	81000684	2

Use these female **Onix T20 Fittings** to connect Onix to our Stainless Steel, and Custom Tubular compression manifolds. Order Onix SelfTite or TorqueTite clamps separately.

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

**Onix Barb x Male Sweat Fittings** — for transitioning Onix to sweat fittings.

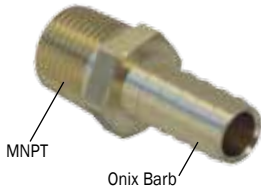


DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Onix x 1/2" Male Sweat Adapter	10	684001-10	81000659	1
3/8" Onix x 1/2" Male Sweat Adapter	50	684001-50	81000660	4
1/2" Onix x 1/2" Male Sweat Adapter	10	685001-10	81000663	1
1/2" Onix x 1/2" Male Sweat Adapter	50	685001-50	81000664	4
5/8" Onix x 1/2" Male Sweat Adapter	10	686001-10	81000667	1
5/8" Onix x 1/2" Male Sweat Adapter	50	686001-50	81000668	4
3/4" Onix x 3/4" Male Sweat Adapter	10	687001-10	81000671	2
3/4" Onix x 3/4" Male Sweat Adapter	50	687001-50	81000672	9
1" Onix x 1" Male Sweat Adapter	10	688001-10	81000675	4

Sweat **Onix Barbs** into copper tees or ball valves for easy field manifold construction

## Onix Fittings

**Onix Barb x MNPT Fittings** — for transitioning Onix to female NPT fittings.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Onix x 1/2" MPT	10	180806-10	81005046	1
1/2" Onix x 1/2" MPT	10	180808-10	81005047	1
5/8" Onix x 1/2" MPT	10	180810-10	81005048	1
3/4" Onix x 3/4" MPT	10	181212-10	81005051	2
1" Onix x 3/4" MPT	10	181213-10	81005052	3
1" Onix x 1" MPT	10	181214-10	81005053	4

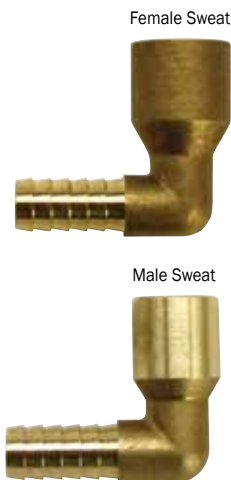


**T20 3/4" Male BSP x Male Sweat Fittings** — for use with SST20 Onix swivel fittings.

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	1

These fittings are manufactured for use with SST20 Onix swivel fittings (threaded female), and are offered in two sizes to fit 1/2" or 3/4" copper fittings.

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



**Onix Sweat Elbow Fittings** — for connecting Onix supply lines to baseboard, fan coils, or kick space heaters.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
1/2" Onix x 3/4" Female Sweat	10	185074-10	81000116	3
5/8" Onix x 3/4" Female Sweat	10	185625-10	81000120	3
3/4" Onix x 3/4" Female Sweat	10	185075-10	81000118	3
1/2" Onix x 3/4" Male Sweat	10	186074-10	81010464	3
5/8" Onix x 3/4" Male Sweat	10	186625-10	81010466	3
3/4" Onix x 3/4" Male Sweat	10	186075-10	81010465	3

Use these all brass **Onix Elbow Fittings** to make transitions to baseboards, radiators, or fan coils when using Onix as supply/return piping.

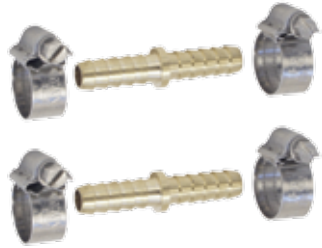


**SelfTite™ Onix Repair Kits** — preassembled kits for field repairs. Each repair kit includes two splices and four SelfTite clamps.

DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" SelfTite Onix Repair Kit	1 kit	660075	81000507	1
1/2" SelfTite Onix Repair Kit	1 kit	660085	81000509	1
5/8" SelfTite Onix Repair Kit	1 kit	660105	81000511	2
3/4" SelfTite Onix Repair Kit	1 kit	660125	81000513	2

## Onix Fittings

**TorqueTite™ Onix Repair Kits** — pre-assembled kit for field repairs. Each repair kit includes two splices and four TorqueTite clamps.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" TorqueTite Repair Kit	1 kit	660076	81000508	1
1/2" TorqueTite Repair Kit	1 kit	660086	81000510	1
5/8" TorqueTite Repair Kit	1 kit	660106	81000512	2
3/4" TorqueTite Repair Kit	1 kit	660126	81000514	2
1" TorqueTite Repair Kit	1 kit	660166	81000515	4

**Onix Couplings** — for making field repairs.



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Onix Coupling	10	677062-10	81000611	1
1/2" Onix Coupling	10	677082-10	81000615	1
5/8" Onix Coupling	10	677101-10	81000618	1
3/4" Onix Coupling	10	677121-10	81000621	1
1" Onix Coupling	10	677122-10	81000623	2

Use **Onix Couplings** to make field repairs and connections when necessary. Be sure to use Watts Radiant's TorqueTite or SelfTite clamps when making all field splice repairs and closely follow all guidelines. Order clamps separately.

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



DESCRIPTION	QTY	MODEL #	ORDER #	WT. (lbs)
3/8" Onix x 1/2" Male Sweat MBV (0.44" bore)	1	446105	81000366	3

Use **Mini Ball Valves** to isolate and/or regulate the flow of individual tubing circuits on field built manifolds.