

Phoenix Thermal Supply

Lead Protection

Stainless Steel Braid



- Swaged in stainless steel braid provides excellent abrasion protection while allowing the leads to be bent in a tight radius.
- Right Angle Or Straight Lead Exit Direction
- Because the braid is swaged in, it is extremely resistant to pulling out of the heater.

Unheated Length at Lead End of Heater

Heater Length	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Under 3" Long	.25	.20	.35	.29	.39	.39
Over 3" Long	.86	.79	.94	.84	1.01	1.00

Stainless Steel Flexible Conduit



- Flexible conduit (also known as armor or hose) provides maximum lead protection from abrasion but cannot be bent quite as sharply as stainless steel braid.
- Right Angle Or Straight Lead Exit Direction
- Flexible conduit is swaged into the heater for maximum protection.

Unheated Length at Lead End of Heater

Heater Length	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Under 3" Long	.62	.60	.30	.23	.39	.39
Over 3" Long	1.23	1.20	.89	.84	1.01	1.00

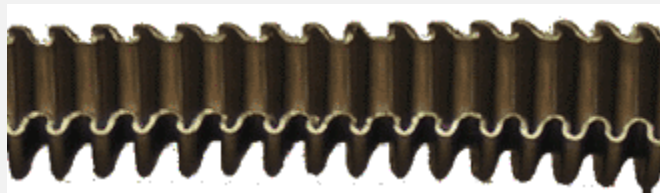
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Conduit O.D.	.275	.303	.303	.303	.37	.48
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Convolute Conduit



- Convolute Conduit is not a seal at all, but rather a sealed, stainless steel, flexible hose brazed to the heating element. This protects the lead and covers the end of the heater. It is rated for applications up to 1100°F.
- Unlike standard conduit, Convolute Conduit is sealed and provides complete water resistance at any temperature while forming a positive seal against contamination entering the heater.
- While the hose is flexible, it is not recommended for applications with continuous flexing and movement. It is best used in applications where moisture or contamination is an issue.
- *It is available only on heaters 1/2" diameter and larger.*
- *It is available on standard 5/8" diameter cartridge heaters, 3/4" diameter cartridge heaters and Gala style heaters. In most cases, Convolute Conduit is brazed directly to the heater.*



Cutaway photo of convoluted conduit.

Specifications

	O.D.	I.D.	Dynamic Bend Radius	Static Bend Radius
Specifications	.50"	.25"	5"	1"

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Sleeving

Type	Max Rec.	Comments
Silicone Rubber Fiberglass Sleeving	200°C	Can sleeve both leads together or each lead separately.
Fiberglass Sleeving	240°C	Good for lead protection and used over crimps.

****ALL LEAD PROTECTION TERMINATIONS LISTED ABOVE ARE AVAILABLE OVER RIGHT ANGLE OR STRAIGHT LEAD ORIENTATION****

****CONSULT ONE OF OUR ENGINEERS WITH ANY QUESTIONS YOU HAVE AND DESIGN REQUIREMENTS****

****WE CAN DUPLICATE YOUR EXISTING O.E.M. DESIGN WHERE NEEDED****

****PTSHEAT WILL CONFIRM EXISTING DESIGN IS BEST FIT FOR YOUR APPLICATION****

****LEAD PROTECTION WILL HELP PROTECT YOUR LEAD WIRES FROM CONTAMINATION, APPLICATION ABRASION WEAR, MOISTURE, ETC.****