

Spiral Cut Tubing

High Performance Flexible Extrusions



Custom sizes, colors, and more options available.

Overview

Zeus routinely cuts tubing in a spiral manner to form an expandable and highly flexible housing over wires, cables, hoses and other critical bundles. The custom spacing between the spirals allow for individual lead wires and fibers to be “broken out” at any point along the extrusion. Spiral Cut tubing is an ideal solution as a wire harnessing or insulating product to protect wires, cables, and fiber optics.

Our team extrudes Spiral Cut Tubing from a variety of polymer resins (PTFE, FEP, ETFE, PFA, PVDF, PEEK, THV and more) to sync your desired properties to the end application. This product securely bundles and insulates wires and fibers thanks to its memory properties without the need for adhesives. We can increase or decrease the pitch to provide enhanced flexibility or add more protection, in addition to cutting spirals left- or right-handed.



CHEMICAL RESISTANCE



ABRASION RESISTANCE



FLAME RESISTANCE

Applications

- *Wire harness / bundling*
- *Fiber optics protection*
- *Protection for wires*

Capabilities and Sizing

- *Customizable spiral pitch on spiral cuts*
- *Available for PTFE, FEP, PFA, ETFE, PVDF, PEEK, and THV tubing (others possible)*
- *Colors and custom sizes available upon request*

Key Properties

- *Flexible and expandable*
- *Chemically inert*
- *Excellent dielectric strength*
- *High and low temperature resistance*
- *Low coefficient of friction*
- *Reduces cable chafing and wear*
- *UV resistant*
- *Flame resistant*



Spiral Cut

PTFE, FEP, PFA & ETFE Cable Wrap Tubing

Supplied in natural color unless otherwise specified. Custom Pantone colors or Zeus standard colors available on request. Free samples available upon request. OD tolerance ± 0.005 ", Wall Tolerance ± 0.005 ", Pitch Tolerance ± 0.030 ". Material and dimensions comply with ASTM 3295 Group 4 PTFE. Lot to lot testing available upon request.

SPIRAL CUT TUBING									
ORDERED BY OUTSIDE DIAMETER		CUT FROM PTFE, FEP, PFA, ETFE INDUSTRIAL TUBING SIZE				BUNDLE DIAMETER MAXIMUM		PITCH OF HELICAL CUT	
		ID		WALL THICKNESS					
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1/8	3.18	1/16	1.59	0.030	0.76	1/2	12.70	0.218	5.54
3/16	4.78	1/8	3.15	0.030	0.76	1	25.40	0.312	7.92
1/4	6.35	3/16	4.76	0.030	0.76	2	50.80	0.375	9.53
5/16	7.94	1/4	6.35	0.030	0.76	2-1/2	63.50	0.375	9.53
3/8	9.53	5/16	7.94	0.030	0.76	3	76.20	0.437	11.11
1/2	12.70	7/16	11.11	0.030	0.76	4	101.60	0.562	14.27
5/8	15.88	9/16	14.29	0.030	0.76	5	127.00	0.625	15.88
3/4	19.05	11/16	17.46	0.035	0.89	6	152.40	0.875	22.23
1	25.40	15/16	23.81	0.040	1.02	8	203.20	1.000	25.40