



Features and Benefits

- Highly flexible due to convoluted construction
- \bullet Available in PVDF, FEP, PFA and HP PFA*
- Helical design
- Self-flushing
- Read-through transparency
- Excellent chemical resistance
- * Contact us for a specific grade material

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Furon[®] ConvoFlex[™]

Protective, Flexible Tubing

Furon ConvoFlex (Convoluted Flexible) Tubing can be used for a multitude of semiconductor solutions. The robust tubing is resistant to highly aggressive chemicals and optimal for any fluid handling system. It features outstanding flexibility with a compact bend radius and is ideal in tortuous path installations. With this feature, ConvoFlex is exceptional for wire conduit protection and for products that may need a chemical resistant shield in moving, automated systems. ConvoFlex can be utilized for dual containment to provide an extra layer to protect an installation.

Because of its chemical resistance and high surface area, it is ideal tubing for heat exchangers. The heat transfer is magnified and increased by the turbulent flow generated inside the tube convolution.

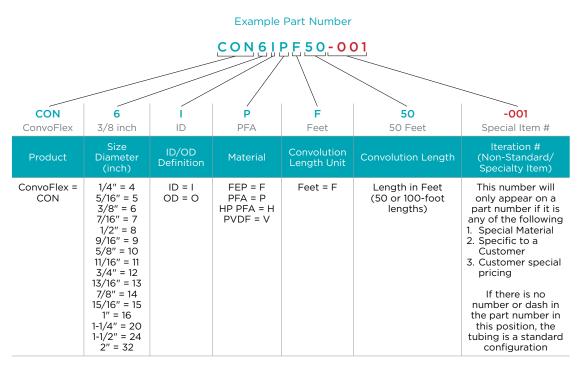
Furon ConvoFlex Tubing is manufactured in PVDF, PFA, HP PFA and specific grades of material upon request. It is also available in FEP material, which can be more economical when high purity is not required.

ASK AN ENGINEER

Furon[®] ConvoFlex[™]

Furon ConvoFlex Nomenclature

Furon ConvoFlex Tubing part numbers are created depending upon various properties of the tube. It is based on selected options available for each property.

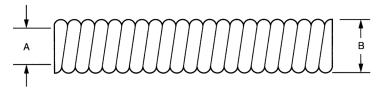


CON6IPF50 = Standard ConvoFlex Part Number

CON6IPF50-001 = Non-Standard, Specialty, Customized ConvoFlex Part Number

Furon[®] ConvoFlex[™]

Furon ConvoFlex



I.D. Centric

Part Number	A I.D.		Wall Thickness		Length		Room Temp. Burst Pressure*		Bend Radius	
	in	mm	in	mm	ft	m	psig	MPa	in	mm
CON4IPF50	- / 4	6.75	0.000	0.5	50	15.24	100	0.69	1/2	12.7
CON4IPF100	1/4	6.35	0.020	0.5	100	30.48	100			
CON6IPF50	- (-	0.50	0.023	0.58	50	15.24	70	0.48	3/4	19.05
CON6IPF100	3/8	9.52	0.025	0.58	100	30.48				
CON8IPF50	1/0	12.7	0.025	0.63	50	15.24	60	0.41	1	25.4
CON8IPF100	1/2				100	30.48				
CON10IPF50	5/8	15.07	0.005	0.63	50	15.24	50	0.34	1-1/2	38.1
CON10IPF100	5/8	15.87	0.025	0.63	100	30.48	50			
CON12IPF50	7/4	19.05	0.025	0.63	50	15.24	40	0.07	2	50.0
CON12IPF100	3/4				100	30.48		40	0.27	2
CON14IPF50	7/8	22.22	0.025	0.63	50	15.24	- 38		0.1/0	63.5
CON14IPF100					100	30.48		0.26	2-1/2	

Note: * Each individual application should be evaluated to determine the degree of safety factor to be used with these values.

O.D. Centric

Part Number	B O.D.		Wall Thickness		Length		Room Temp. Burst Pressure*		Bend Radius	
	in	mm	in	mm	ft	m	psig	MPa	in	mm
CON60PF50	7 (0	0.50	0.000	0.5	50	15.24	100	0.69	1/2	12.7
CON60PF100	3/8	9.52	0.020	0.5	100	30.48	100			
CON80PF50	1/0	12.7	0.023	0.58	50	15.24	70	0.48	3/4	19.05
CON80PF100	1/2				100	30.48				
CON100PF50	5/8	15.87	0.025	0.63	50	15.24	60	0.41	1	25.4
CON100PF100					100	30.48				
CON12OPF50	7 / 4	10.05	0.005	0.67	50	15.24	50	0.34	1-1/2	38.1
CON120PF100	3/4	19.05	0.025	0.63	100	30.48	50			
CON140PF50	7/8	22.22	0.025	0.63	50	15.24	40	0.07	2	50.0
CON140PF100					100	30.48		0.27	2	50.8
CON160PF50		25.4	0.025	0.67	50	15.24	38	0.26	2-1/2	63.5
CON160PF100	1	25.4	0.025	0.63	100	30.48				

Furon ConvoFlex Customization

Saint-Gobain operates with a global approach to meet our customers' specific needs. To be solutions-oriented means combining products and services, and to adapt to local challenges. In an effort to continuously innovate and advance, Saint-Gobain is eager to co-develop with customers for their custom needs and applications.

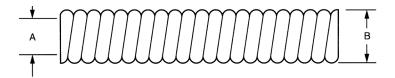
We offer a wide range of standard products but excel in customization. ConvoFlex Tubing can be manufactured from various raw materials and in special sizes, and lengths.

Please contact your Saint-Gobain Business Development Manager to discuss your custom needs.

Customization Scenario

A Saint-Gobain customer contacted their Business Development Manager with a product challenge. They presented a rigorous liquid application that required tubing with excellent chemical resistance, nitrogen flush compatibility, high flexibility, a self-draining attribute, and the need for easy end connections. All these challenges are addressed with the standard ConvoFlex tubing. However, when they referenced the datasheet, they found their required dimensions were not listed. Specifically, they needed a 2.25" (57.15 mm) OD tube with a unique convolution pitch.

The Saint Gobain commercial team quickly gathered the specifics of the opportunity, discussed the details with engineering and production and determined custom tooling and a trial were required to prove capability. A trial cost was agreed upon and was successfully completed. A purchase order was placed for their customized ConvoFlex design, which included a unique custom part number.



Tubing Extreme Values

	A I.D.		_	3 .D.	Wall Th	ickness	Length	
	in	mm	in	mm	in	mm	ft	m
Minimum	1/4	6.35	3/8	9.52	0.020	0.5	50	15.24
Maximum	2	50.8	2	50.8	0.025	0.63	100	30.48

Saint-Gobain Performance Plastics

China (+8621) 5472 1568 Sales.PPLCN@saint-gobain.com Europe (+33) 3 85 20 27 00 quotes-clm@saint-gobain.com Germany/Austria (+49) 2131 53359-59 sales-neuss@saint-gobain.com

India (+91) 80 46978888 pplindia.hc@saint-gobain.com Japan (+81) 3 6256 9703 Is-japan@saint-gobain.com Korea (+82) 2 6098 0180

LS-Korea@saint-gobain.com Southeast Asia (+66) 38 667 800 cs.sgpplsea@saint-gobain.com Taiwan (+886) 2 2503 4201 Taiwan.ppl@saint-gobain.com United States (+1) 856-423-6630 DL-NA-MickletonCustomerService@saint-gobain.com All Other Regions

www.furon.com

NOTE: This document is intended to provide information about the product to enable you to consider whether generally the Product meets your application need and is not intended to provide product specification. This document should not be considered a Product warranty or guaranty. To the extent this document mentions any tests done by Saint-Gobain, such tests are done under controlled laboratory circumstances and hence other factors in your use and application may impact such values. Saint-Gobain strongly recommends that you conduct practical tests simulating the conditions of your application to ensure that the product meets your requirements for your specific application.

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