



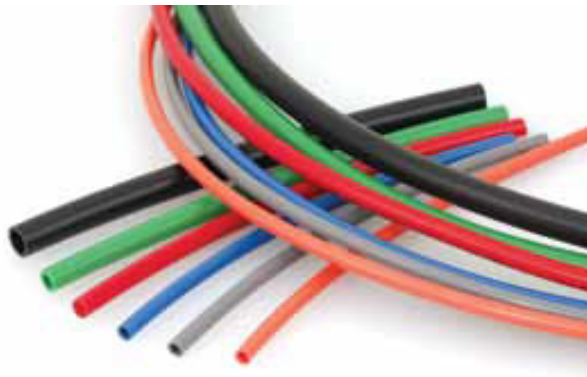
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## Thermoplastik- & Fluorpolymerprodukte

Fluorpolymerleitungen und -rohre

FEP / PFA / PTFE / PVDF

*Katalog CAT 4660/USA 01/12(2)*



# KATALOG

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# Fluoropolymer Tubing

## Fluoropolymer Tubing

Parflex Fluoropolymer tubing is available from Parker TexLoc™ in Fort Worth, Texas. Tubing can be ordered directly from TexLoc or through the Parflex Division.

Fluoropolymer tubing features a low coefficient of friction and anti-stick properties, high temperature capabilities and the most corrosion and chemical resistance of all polymers. Within normal use temperatures, fluoropolymers are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals they are compatible with (see Chemical Resistance Summary, pg. B-44). These chemically inert tubes are non-wetting and non-leaching, making them ideal for a wide range of fluid and material handling applications.

Parker TexLoc fluoropolymer tubing is available in PTFE, FEP, PFA and PVDF with some materials operating at temperatures up to 500°F/260°C. Each material has specific dominant characteristics, but all operate in high-temperature, corrosive environments.

- Parflex PTFE, FEP, PFA and PVDF tubing complies with European Standard RoHs and are also FDA compliant to FDA regulation 21 CFR 177.1550, making these products suitable for use in food and beverage applications.
- Parflex PTFE, FEP and PFA are listed VW-1 in the burning test for Underwriters Laboratories and pass the UL-83 vertical flame test. In a flame situation, PTFE, FEP and PFA tubing resist combustion and do not promote flame spread.

**All fluoropolymer tubing dimensions are continuously monitored to ensure an overall quality product. Most tubing sizes are packaged in convenient 25-ft., 50-ft., 100-ft. and 1,000-ft. lengths.**

### PTFE

- PTFE (Polytetrafluorethylene) is offered in beading, smoothbore tubing and heat shrinkable tubing.
- PTFE tubing features unmatched chemical resistance and a non-stick surface that facilitates flow and eliminates media buildup.

### FEP

- FEP (Fluorinated Ethylene Propylene) is available in smoothbore tubing and heat shrinkable tubing.
- FEP tubing offers the highest clarity in the fluoropolymer market and is a close second to PTFE in chemical resistance.
- FEP is available in long, continuous lengths (1,000 feet and longer) whereas the longest lengths for PTFE range from 200 to 1,000 feet depending on size and wall thickness.

### PFA

- PFA (Perfluoroalkoxy) is available in smoothbore tubing.
- When temperature and clarity are both factors, PFA is the resin of choice because it offers the high-temperature attributes of PTFE, long continuous lengths, and almost as much clarity as FEP.
- High purity resins available.
- Low permeability.

# Fluoropolymer Tubing

Product Family	Type	Series		Suggested Applications		Suggested Markets
PTFE	Beading	TFB		Pull Cord O-Ring Seals	Spacers Woven Filter	Chemical High-Temp
	Smoothbore	TFH TFS	TFT TFL	Electrical Insulation Protective Cover	Circuit Board Wire Insulation	Food Instrumentation Laboratory
	Smoothbore	101	201	Electrical Insulation Fluid Transfer	Gas Sampling Laboratory	Gas Sampling Electrical Insulation
	Heat Shrink	HS2T	HS4T	Electrical Insulation Laboratory		Fluid Handling Industrial Equipment
FEP	Smoothbore	103	203	Nitrogen Filling Downhole Pump Ozone Sampling	Hearing Aid Optical Sensors	UV Applications Chemical Instrumentation Laboratory Gas Sampling
	Heat Shrink	HS1.3 HS1.25	HS1.6	Protective Covering UV Light Covering Product Testing	Paper Rollers Ink Rollers	Robotics Fluid Handling Food & Beverage Pharmaceutical
PFA	Smoothbore	104	204	Air Sampling Gas Purge Wetbench Flow Monitoring Steam Plant		Chemical Laboratory Semiconductor Instrumentation Food Environmental Fluid Handling Gas Service Pharmaceutical
H.P. PFA	Smoothbore	105	205	Flow Monitoring Systems High Purity Applications DI Water Dispensers DI Recirculators Heat Exchangers Pure Chemical Dispensers Laboratory		Chemical Laboratory Semiconductor Instrumentation Food Environmental Fluid Handling Pharmaceutical
PVDF	Smoothbore	110	111	Thermal Cycling Outdoor/Extreme Conditions Water Systems Applications with long cycle life		Chemical Food Gas Environmental

## High Purity PFA

- H.P. PFA (Perfluoroalkoxy) has the highest molecular weight available.
- Withstands corrosive surfactants for longer periods of time than standard products.
- Lowest level of extractables.

## PVDF

- PVDF (Polyvinylidene Fluoride) is available in flexible and super flexible smoothbore tubing.
- PVDF offers a combination of properties beneficial for use in many critical applications requiring chemical resistance with low permeability.
- PVDF exhibits low extractable levels while providing high mechanical strength and abrasion resistance.

For detailed ordering information, please consult price list or contact Parflex® Division.



# Fluoropolymer Tubing

Tubing  
Fluoropolymer  
B

## Fluoropolymer - Quick Reference

### PTFE (Polytetrafluoroethylene)

Working Temperature: 500°F (260°C)

Color: Opaque to translucent

- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

Coiled Air Hose  
& Fittings  
C

### PFA (Perfluoroalkoxy)

Working Temperature: 500°F (260°C)

Color: Clear with light blue or tint

- High purity resins available
- Low permeation resins available
- Use when you need the temperature range of PTFE and the clarity of FEP
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Good flexlife

Transportation  
D

### FEP (Fluorinated Ethylene Propylene)

Working Temperature: 400°F (204°C)

Color: Clear

- Excellent chemical resistance
- Nonwetting
- Weldable
- Tubes can be sealed by melting
- Long continuous lengths
- Low refractive index
- Improved clarity over PFA
- Lower cost alternative to PFA

Fittings  
E

### PVDF (Polyvinylidene Fluoride)

Working Temperature: 265°F (130°C)

Color: Varies

- Very good chemical resistance
- Excellent resistance to creep and fatigue
- UV Resistant
- Weldable
- Exceptional corrosion resistance for chlorine, fluorine, or bromine environments

Tooling, Equipment  
& Accessories  
F

General Technical  
G

## Chemical Resistance Summary



Within normal use temperatures, fluoroplastics are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals with which TexFluor™ is compatible.

### DO NOT USE FLUOROPLASTICS WITH THE FOLLOWING:

- Alkali metals such as elemental sodium, potassium, lithium, etc. The alkali metals remove fluorine from the polymer molecule.
- Extremely potent oxidizers, fluorine (F<sub>2</sub>) and related compounds (e.g., chlorine trifluoride, ClF<sub>3</sub>). These can be handled by TexFluor™, but only with great care, as fluorine is absorbed into the resins, and the mixture becomes sensitive to a source of ignition such as impact.
- 80% NaOH (Sodium Hydroxide) or KOH (Potassium Hydroxide), metal hydrides such as Boranes (e.g., B<sub>2</sub>H<sub>6</sub>), Aluminum Chloride, Ammonia (NH<sub>3</sub>), certain Amines (R-NH<sub>2</sub>) and imines (R=NH) and 70% Nitric Acid at temperatures near the suggested service limit.



### WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

# Fluoropolymer Tubing

## Property Comparison - Fluoropolymer Resin\*

Properties	ASTM or Unit	PTFE	FEP	PFA	PVDF
<b>MECHANICAL PROPERTIES</b>					
Specific Gravity	D792	2.13-2.20	2.12-2.17	2.12-2.17	1.76-1.78
Elongation %	D638	200-450	250-330	280-400	300-450
Tensile Strength (psi)	D638	2000-7000	2800-5000	4000-4500	4500-6200
Tensile Elastic Modulus (Young's Modulus) (psi)	D638	57,000	50,000	72,500-87,000	160,000
Flexural Modulus	D790(psi) D790 103MPa (103kgf/cm2)	71,000-85,000 0.5-0.6 (5.0-6.0)	78,000-92,000 0.5-0.6 (5.5-6.4)	94,000-99,000 0.6-0.7 (6.6-7.0)	90,000-168,000 na
Flex Life (MIT cycles)	D2176	>1,000,000	5,000-80,000	10,000-500,000	na
Hardness Durometer Shore D	D636	D50-65	D55	D55-60	D75-D85
Coefficient of Friction	(on steel)	0.02	0.05	0.2	0.4
Abrasion Resistance 1000 revs.	Taber	12	14-20	9-17	5-15
Impact Strength IZO.D. 73°F/23°C notched ft/lbs/in	D256	3	no break	no break	4
<b>THERMAL PROPERTIES</b>					
Melting Point	°C	327	260	305	171
	°F	621	500	582	340
Upper Service Temperature(20000h)	°C	260	204	260	130
	°F	500	400	500	260
Low Temperature Embrittlement	°C	-268	-268	-268	-62
	°F	-450	-450	-450	-80
<b>ELECTRICAL PROPERTIES</b>					
Dielectric Constant	D150/103Hz	2.1	2.1	2.1	7.72
	D150/106Hz	2.1	2.1	2.1	6.43
Dielectric Strength	D149/125 MIL	500	500	500	na
	D149/10 MIL	≥1400	>1400	≥1400	>1080
<b>GENERAL PROPERTIES</b>					
Chemical/Solvent Resistance	D543	Excellent	Excellent	Excellent	Very Good
Water Absorption 24h,%	D570	<0.01	<0.01	<0.03	<0.04
Refractive Index		1.35	1.338	1.34	1.42

\*General resin properties; Tubing properties may vary.

## Tubing Pressure Ranges

Tubing pressures vary by material, tubing size and wall thickness. Please contact Customer Service for specific pressures.

For detailed ordering information, please consult price list or contact Parflex® Division.

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Tubing  
Fluoropolymer  
**B**

Coiled Air Hose  
& Fittings  
**C**

Transportation  
**D**

Fittings  
**E**

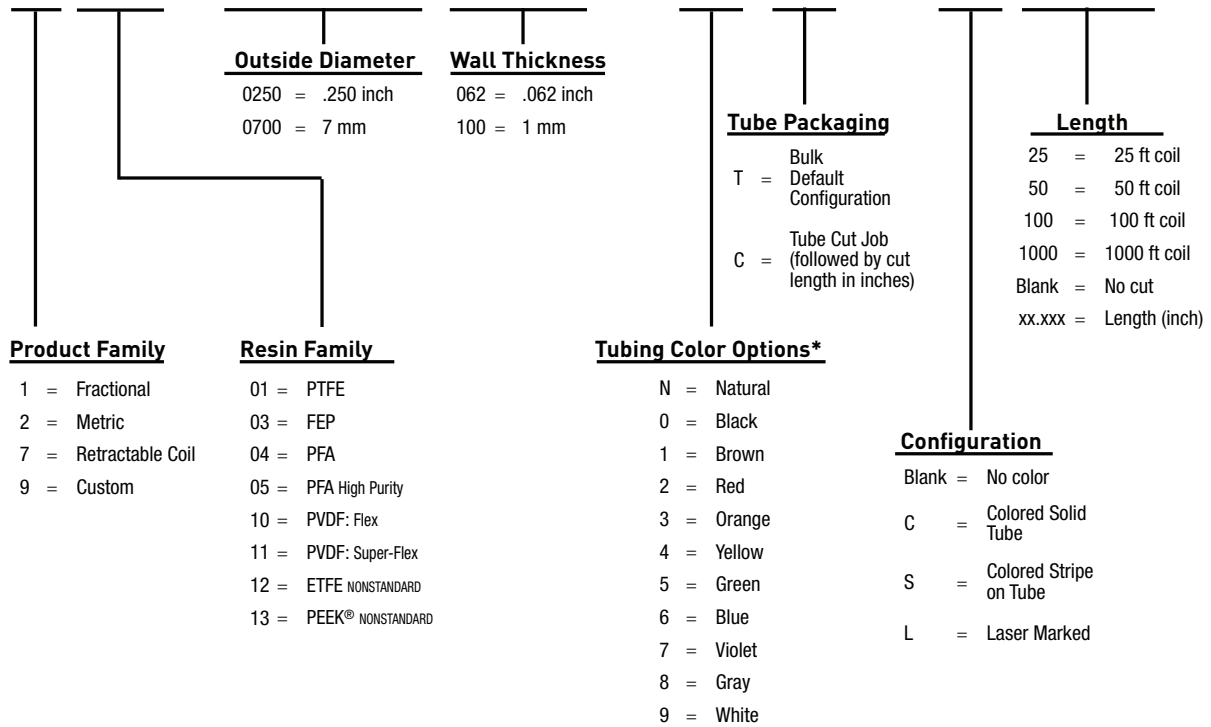
Tooling, Equipment  
& Accessories  
**F**

General Technical  
**G**

# Fluoropolymer Tubing

## Fluoropolymer Tubing Nomenclature Smoothbore Fractional and Metric Tubing

# 105-0250062 - N T - 100



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For detailed ordering information, please consult price list or contact Parflex® Division.

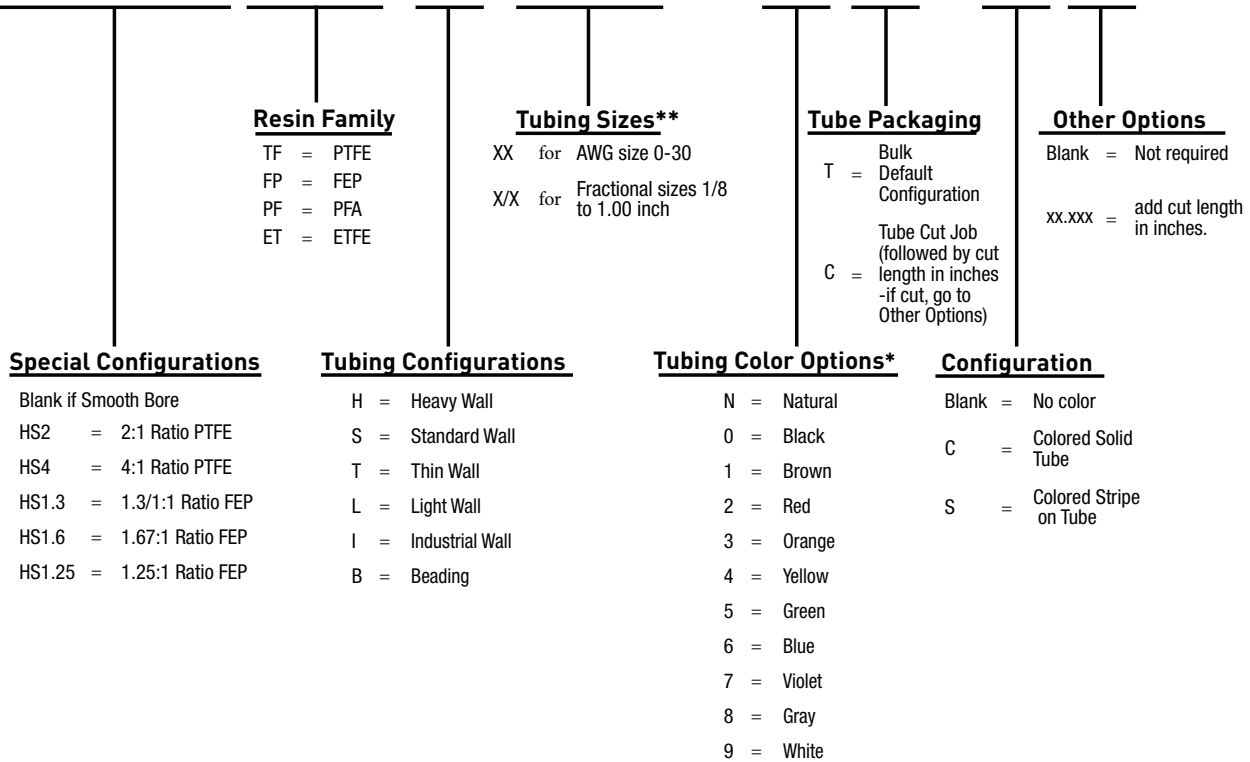
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# Fluoropolymer Tubing

## Fluoropolymer Tubing Nomenclature

Heat Shrink, Electrical Insulation Tubing and Beading

# HS2\*\* T F T 1/8 - N T\*\*\*



\*When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-OCC48.000

\*\*This first configuration is only used for heat shrinkable tubing or spiral wrap. For example, electrical insulation tubing part number would read TFT-1/8-NT.

\*\*\*When changing to cut length, replace the T with C and specify the length in inches. If this part was cut to 4 feet, part number would read TFT-1/8-NC48.000.

\*\*\*\*Sizes for heat shrink designate the size of the heat shrink tube as stated by the applicable specification. The actual O.D. of the tubing does not always match the size. Review actual tables to see the true expanded dimension of the tube.

For detailed ordering information, please consult price list or contact Parflex® Division.

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# PTFE Tubing

## Series Fractional: TFL, TFS, TFT



### Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

### Applications/Markets



- Electrical Insulation
- Protective Cover

### Certifications

- Light Wall (TFL) – ASTM D 3295, Class 1, AMS 3654C
- Thin Wall (TFT) – ASTM D 3295, Class 2, AMS 3655B
- Standard Wall (TFS) – ASTM D 3295, Class 3, AMS 3653E
- FDA Compliant
- USP Class VI Compliant

### TFS, TFT & TFL PTFE Fractional Tubing

Size	Nominal I.D.		Standard Wall			Thin Wall			Light Wall			Standard Packaging
			Part Number	Nominal Wall		Part Number	Nominal Wall		Part Number	Nominal Wall		
			#			#			#			
inch	inch	mm	Natural	inch	mm	Natural	inch	mm	Natural	inch	mm	
1/8	.125	3.18	TFS1/8	.020	0.51	TFT1/8	.015	0.38	TFL1/8	.008	0.20	Random Length Coil
3/16	.188	4.78	TFS3/16	.020	0.51	TFT3/16	.015	0.38	TFL3/16	.010	0.25	Random Length Coil
1/4	.250	6.35	TFS1/4	.020	0.51	TFT1/4	.015	0.38	TFL1/4	.010	0.25	Random Length Coil
5/16	.318	7.92	TFS5/16	.020	0.51	TFT5/16	.015	0.38	TFL5/16	.012	0.30	Random Length Coil
3/8	.381	9.52	TFS3/8	.025	0.64	TFT3/8	.015	0.38	TFL3/8	.015	0.38	Random Length Coil
7/16	.444	11.13	TFS7/16	.025	0.64	TFT7/16	.018	0.46	TFL7/16	.018	0.46	Random Length Coil
1/2	.507	12.70	TFS1/2	.025	0.64	TFT1/2	.018	0.46	TFL1/2	.018	0.46	Random Length Coil
5/8	.632	15.88	TFS5/8	.025	0.64	TFT5/8	.020	0.51	-	-	-	Random Length Coil
3/4	.760	19.05	TFS3/4	.030	0.76	TFT3/4	.025	0.64	-	-	-	Random Length Coil
7/8	.885	22.22	TFS7/8	.035	0.89	-	-	-	-	-	-	Random Length Coil
1	1.010	25.40	TFS10.00	.035	0.89	-	-	-	-	-	-	Random Length Coil

Fractional tubing is supplied in random length coils, with a minimum coil length of 15 feet. Custom packaging, sizes and lengths are quoted upon request.



## Order Information

### Example: TFS1/2-NT

TFS1/2-NT – PTFE

TFS1/2-NT – Standard Wall

TFS1/2-NT – Tube O.D. in inches (1/2")

TFS1/2-NT – Natural

TFS1/2-NT – Bulk Tubing

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

## Fittings

- Fittings available for sizes 3/32" up to 1.1"
- Parker Fittings available from:  
 Fluid System Connectors Division  
 Otsego, MI  
 (269) 692-6555  
 (269) 694-4614 FAX

### FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Package quantities are not continuous

## Colors

- Natural, Opaque to translucent

See Color Code Table

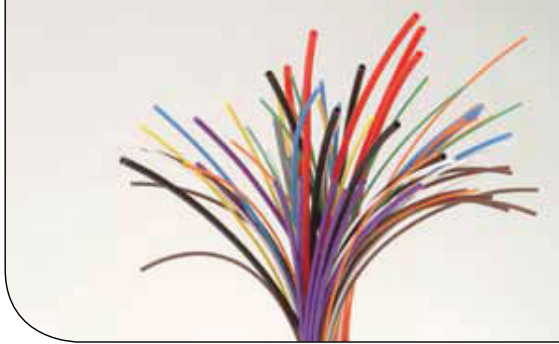
- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-OCC48.000

For detailed ordering information, please consult price list or contact Parflex® Division.



# PTFE Tubing

Series AWG: TFH, TFS, TFT, TFL



## Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

## Applications/Markets



- Electrical Insulation
- Protective Cover
- Circuit Board
- Wire Insulation

## Certifications

- Light Wall (TFL) - ASTM D 3295, Class 1, AMS 3654C
- Thin Wall (TFT) - ASTM D 3295, Class 2, AMS 3655B, UL-224 300V 200°C, CSA 9032-01 300V
- Standard Wall (TFS) - ASTM D 3295, Class 3, AMS 3653E, MIL-I-22129C, UL-224 600V 200°C, CSA 9032-01 600V
- Heavy Wall (TFH) - ASTM D 3295, Class 4
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

## Order Information

### Example: TFH13-2TC

TFH13-2TC – PTFE

TFH13-2TC – Heavy Wall

TFH13-2TC – AWG Size

TFS13-2TC – Red

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

## Fittings

- Fittings available for sizes 3/32" up to 1.1"

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Spaghetti tubing is supplied in random lengths with a minimum length of 25 feet
- Continuous lengths and colors quoted upon request
- AWG spaghetti tubing is also available in FEP and PFA
- Consult factory for pricing and minimum lengths

## Colors

See Color Code Table

- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

For detailed ordering information, please consult price list or contact Parflex® Division.



# PTFE Tubing

Series AWG: TFH, TFL, TFS, TFT (cont.)

## TFH PTFE AWG Heavy Wall

Part Number	Size	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	
#										
	AWG	inch	mm	inch	mm	inch	mm	inch	mm	
TFH24	24	.022	0.56	.020	0.51	.026	0.66	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFH23	23	.026	0.66	.023	0.58	.029	0.74	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFH22	22	.028	0.71	.025	0.64	.032	0.81	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFH21	21	.032	0.81	.029	0.74	.035	0.89	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFH20	20	.034	0.86	.032	0.81	.040	1.02	.018 ± .003	0.46 ± 0.08	1,000 ft. Spool
TFH19	19	.038	0.97	.036	0.91	.044	1.12	.020 ± .004	0.51 ± 0.10	1,000 ft. Spool
TFH18	18	.042	1.07	.040	1.02	.049	1.25	.020 ± .004	0.51 ± 0.10	1,000 ft. Spool
TFH17	17	.048	1.22	.045	1.14	.054	1.37	.020 ± .004	0.51 ± 0.10	1,000 ft. Spool
TFH16	16	.053	1.35	.051	1.30	.061	1.55	.020 ± .004	0.51 ± 0.10	1,000 ft. Spool
TFH15	15	.059	1.50	.057	1.45	.067	1.70	.020 ± .004	0.51 ± 0.10	1,000 ft. Spool
TFH14	14	.066	1.68	.064	1.63	.074	1.88	.020 ± .004	0.51 ± 0.10	500 ft. Spool
TFH13	13	.076	1.93	.072	1.83	.082	2.08	.020 ± .004	0.51 ± 0.10	500 ft. Spool
TFH12	12	.085	2.16	.081	2.06	.091	2.31	.020 ± .004	0.51 ± 0.10	500 ft. Spool
TFH11	11	.095	2.41	.091	2.31	.101	2.57	.020 ± .004	0.51 ± 0.10	500 ft. Spool
TFH10	10	.106	2.69	.102	2.59	.112	2.84	.025 ± .005	0.64 ± 0.13	500 ft. Spool
TFH09	9	.118	3.00	.114	2.90	.124	3.15	.025 ± .005	0.64 ± 0.13	500 ft. Spool
TFH08	8	.133	3.38	.129	3.28	.141	3.58	.030 ± .005	0.76 ± 0.13	Random Length Coil
TFH07	7	.148	3.76	.144	3.66	.158	4.01	.030 ± .005	0.76 ± 0.13	Random Length Coil
TFH06	6	.166	4.22	.162	4.11	.178	4.52	.030 ± .005	0.76 ± 0.13	Random Length Coil
TFH05	5	.185	4.70	.182	4.62	.196	4.98	.032 ± .005	0.81 ± 0.13	Random Length Coil

## Certifications

- Heavy Wall (TFH) - ASTM D 3295, Class 4
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | [parker.com/pfd](http://parker.com/pfd)

### TFS PTFE AWG Standard Wall

Part Number	Size	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	
#										
	AWG	inch	mm	inch	mm	inch	mm	inch	mm	
TFS30	30	.012	0.31	.010	0.25	.015	0.38	.009 ± .002	0.23 ± 0.51	1,000 ft. Spool
TFS28	28	.015	0.38	.013	0.33	.018	0.46	.009 ± .002	0.23 ± 0.51	1,000 ft. Spool
TFS26	26	.018	0.46	.016	0.41	.022	0.56	.009 ± .002	0.23 ± 0.51	1,000 ft. Spool
TFS24	24	.022	0.56	.020	0.51	.026	0.66	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFS23	23	.026	0.66	.023	0.58	.029	0.74	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFS22	22	.028	0.71	.025	0.64	.032	0.81	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFS21	21	.032	0.81	.029	0.74	.035	0.89	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFS20	20	.034	0.86	.032	0.81	.040	1.02	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFS19	19	.038	0.97	.036	0.91	.044	1.12	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFS18	18	.042	1.07	.040	1.02	.049	1.25	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFS17	17	.048	1.22	.045	1.14	.054	1.37	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFS16	16	.053	1.35	.051	1.30	.061	1.55	.016 ± .003	0.41 ± 0.08	1,000 ft. Spool
TFS15	15	.059	1.50	.057	1.45	.067	1.70	.016 ± .003	0.41 ± 0.08	500 ft. Spool
TFS14	14	.066	1.68	.064	1.63	.074	1.88	.016 ± .003	0.41 ± 0.08	500 ft. Spool
TFS13	13	.076	1.93	.072	1.83	.082	2.08	.016 ± .003	0.41 ± 0.08	500 ft. Spool
TFS12	12	.085	2.16	.081	2.06	.091	2.31	.016 ± .003	0.41 ± 0.08	500 ft. Spool
TFS11	11	.095	2.41	.091	2.31	.101	2.57	.016 ± .003	0.41 ± 0.08	500 ft. Spool
TFS10	10	.106	2.69	.102	2.59	.112	2.84	.016 ± .003	0.41 ± 0.08	500 ft. Spool
TFS09	9	.118	3.00	.114	2.90	.124	3.15	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS08	8	.133	3.38	.129	3.28	.141	3.58	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS07	7	.148	3.76	.144	3.66	.158	4.01	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS06	6	.166	4.22	.162	4.11	.178	4.52	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS05	5	.185	4.70	.182	4.62	.196	4.98	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS04	4	.208	5.28	.204	5.18	.224	5.69	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS03	3	.234	5.94	.229	5.82	.249	6.32	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS02	2	.263	6.68	.258	6.55	.278	7.06	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS01	1	.294	7.47	.289	7.34	.311	7.90	.020 ± .004	0.51 ± 0.10	Random Length Coil
TFS00	0	.330	8.38	.325	8.25	.347	8.81	.020 ± .004	0.51 ± 0.10	Random Length Coil

### Certifications

- Standard Wall (TFS)- ASTM D 3295, Class 3, AMS 3653E, MIL-I-22129C, UL-224 600V 200°C, CSA 9032-01 600V
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

### Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)

For detailed ordering information, please consult price list or contact Parflex® Division.



# PTFE Tubing

Series AWG: TFH, TFL, TFS, TFT (cont.)

TFT PTFE AWG Thin Wall

Part Number	Size	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	
#										
	AWG	inch	mm	inch	mm	inch	mm	inch	mm	
TFT32	32	.010	0.25	.008	0.20	.012	0.31	.007 ± .002	0.18 ± 0.05	1,000 ft. Spool Only
TFT30	30	.012	0.31	.010	0.25	.015	0.38	.009 ± .002	0.23 ± 0.05	1,000 ft. Spool
TFT28	28	.015	0.38	.013	0.33	.018	0.46	.009 ± .002	0.23 ± 0.05	1,000 ft. Spool
TFT26	26	.018	0.46	.016	0.41	.022	0.56	.009 ± .002	0.23 ± 0.05	1,000 ft. Spool
TFT24	24	.022	0.56	.020	0.51	.026	0.66	.010 ± .003	0.25 ± 0.08	1,000 ft. Spool
TFT23	23	.026	0.66	.023	0.58	.029	0.74	.010 ± .003	0.25 ± 0.08	1,000 ft. Spool
TFT22	22	.028	0.71	.025	0.64	.032	0.81	.010 ± .003	0.25 ± 0.08	1,000 ft. Spool
TFT21	21	.032	0.81	.029	0.74	.035	0.89	.010 ± .003	0.25 ± 0.08	1,000 ft. Spool
TFT20	20	.034	0.86	.032	0.81	.040	1.02	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFT19	19	.038	0.97	.036	0.91	.044	1.12	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFT18	18	.042	1.07	.040	1.02	.049	1.25	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFT17	17	.048	1.22	.045	1.14	.054	1.37	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFT16	16	.053	1.35	.051	1.30	.061	1.55	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFT15	15	.059	1.50	.057	1.45	.067	1.70	.012 ± .003	0.31 ± 0.08	1,000 ft. Spool
TFT14	14	.066	1.68	.064	1.63	.074	1.88	.012 ± .003	0.31 ± 0.08	500 ft. Spool
TFT13	13	.076	1.93	.072	1.83	.082	2.08	.012 ± .003	0.31 ± 0.08	500 ft. Spool
TFT12	12	.085	2.16	.081	2.06	.091	2.31	.012 ± .003	0.31 ± 0.08	500 ft. Spool
TFT11	11	.095	2.41	.091	2.31	.101	2.57	.012 ± .003	0.31 ± 0.08	500 ft. Spool
TFT10	10	.106	2.69	.102	2.59	.112	2.84	.012 ± .003	0.31 ± 0.08	500 ft. Spool
TFT09	9	.118	3.00	.114	2.90	.124	3.15	.015 ± .003	0.38 ± 0.08	500 ft. Spool
TFT08	8	.133	3.38	.129	3.28	.141	3.58	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT07	7	.148	3.76	.144	3.66	.158	4.01	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT06	6	.166	4.22	.162	4.11	.178	4.52	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT05	5	.185	4.70	.182	4.62	.196	4.98	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT04	4	.208	5.28	.204	5.18	.224	5.69	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT03	3	.234	5.94	.229	5.82	.249	6.32	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT02	2	.263	6.68	.258	6.55	.278	7.06	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT01	1	.294	7.47	.289	7.34	.311	7.90	.015 ± .003	0.38 ± 0.08	Random Length Coil
TFT00	0	.330	8.38	.325	8.25	.347	8.81	.015 ± .003	0.38 ± 0.08	Random Length Coil

## Certifications

- Thin Wall (TFT) - ASTM D 3295, Class 2, AMS 3655B, UL-224 300V 200°C, CSA 9032-01 300V
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)



For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | [parker.com/pfd](http://parker.com/pfd)

### TFL PTFE AWG Light Wall

Part Number	Size	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	
#										
	AWG	inch	mm	inch	mm	inch	mm	inch	mm	
TFL32	32	.010	0.25	.008	0.20	.012	0.31	.005 ± .002	0.13 ± 0.05	1,000 ft. Spool Only
TFL30	30	.012	0.31	.010	0.25	.015	0.38	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL28	28	.015	0.38	.013	0.33	.018	0.46	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL26	26	.018	0.46	.016	0.41	.022	0.56	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL24	24	.022	0.56	.020	0.51	.026	0.66	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL23	23	.026	0.66	.023	0.58	.029	0.74	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL22	22	.028	0.71	.025	0.64	.032	0.81	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL21	21	.032	0.81	.029	0.74	.035	0.89	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL20	20	.034	0.86	.032	0.81	.040	1.02	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL19	19	.038	0.97	.036	0.91	.044	1.12	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL18	18	.042	1.07	.040	1.02	.049	1.25	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL17	17	.048	1.22	.045	1.14	.054	1.37	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL16	16	.053	1.35	.051	1.30	.061	1.55	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL15	15	.059	1.50	.057	1.45	.067	1.70	.006 ± .002	0.13 ± 0.05	1,000 ft. Spool
TFL14	14	.066	1.68	.064	1.63	.074	1.88	.008 ± .002	0.20 ± 0.05	500 ft. Spool
TFL13	13	.076	1.93	.072	1.83	.082	2.08	.008 ± .002	0.20 ± 0.05	500 ft. Spool
TFL12	12	.085	2.16	.081	2.06	.091	2.31	.008 ± .002	0.20 ± 0.05	500 ft. Spool
TFL11	11	.095	2.41	.091	2.31	.101	2.57	.008 ± .002	0.20 ± 0.05	500 ft. Spool
TFL10	10	.106	2.69	.102	2.59	.112	2.84	.008 ± .002	0.20 ± 0.05	500 ft. Spool
TFL09	9	.118	3.00	.114	2.90	.124	3.15	.008 ± .002	0.20 ± 0.05	500 ft. Spool
TFL08	8	.133	3.38	.129	3.28	.141	3.58	.008 ± .002	0.20 ± 0.05	Random Length Coil
TFL07	7	.148	3.76	.144	3.66	.158	4.01	.008 ± .002	0.20 ± 0.05	Random Length Coil
TFL06	6	.166	4.22	.162	4.11	.178	4.52	.010 ± .003	0.25 ± 0.08	Random Length Coil
TFL05	5	.185	4.70	.182	4.62	.196	4.98	.010 ± .003	0.25 ± 0.08	Random Length Coil
TFL04	4	.208	5.28	.204	5.18	.224	5.69	.010 ± .003	0.25 ± 0.08	Random Length Coil
TFL03	3	.234	5.94	.229	5.82	.249	6.32	.010 ± .003	0.25 ± 0.08	Random Length Coil
TFL02	2	.263	6.68	.258	6.55	.278	7.06	.010 ± .003	0.25 ± 0.08	Random Length Coil
TFL01	1	.294	7.47	.289	7.34	.311	7.90	.012 ± .003	0.31 ± 0.08	Random Length Coil
TFL00	0	.330	8.38	.325	8.25	.347	8.81	.012 ± .003	0.31 ± 0.08	Random Length Coil

### Certifications

- Light Wall (TFL) – ASTM D 3295, Class 1, AMS 3654C
- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

### Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)

For detailed ordering information, please consult price list or contact Parflex® Division.



# PTFE Tubing

## Series Fractional: 101 Industrial & Heavy Wall



### Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

### Applications/Markets



- Electrical Insulation
- Fluid Transfer
- Gas Sampling
- Laboratory

### Certifications

- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

### 101 PTFE Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C		
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi	bar
#																
101-0094031	3/32	.094	± .005	2.40	± 0.13	.031	± .002	0.79	± 0.05	.031	0.79	390	27	1950	134	
101-0125031	1/8	.125	± .005	3.18	± 0.13	.063	± .003	1.57	± 0.05	.031	0.79	290	20	1450	100	
101-0156031	5/32	.156	± .005	3.99	± 0.13	.094	± .004	2.39	± 0.08	.031	0.79	220	15	1100	76	
101-0188031	3/16	.188	± .005	4.78	± 0.13	.125	± .005	3.18	± 0.13	.031	0.79	180	12	900	62	
101-0250031	1/4	.250	± .005	6.35	± 0.13	.190	± .005	4.83	± 0.13	.031	0.79	130	9	650	45	
101-0312031	5/16	.312	± .005	7.92	± 0.13	.250	± .007	6.35	± 0.18	.031	0.79	100	7	500	34	
101-0375031	3/8	.375	± .005	9.52	± 0.13	.312	± .006	7.92	± 0.15	.031	0.79	80	6	400	28	
101-0438031	7/16	.438	± .005	11.13	± 0.13	.375	± .007	9.52	± 0.18	.031	0.79	70	5	350	24	
101-0500031	1/2	.500	± .006	12.70	± 0.15	.438	± .008	11.13	± 0.20	.031	0.79	60	4	300	21	
101-0563031	9/16	.563	± .007	14.30	± 0.18	.500	± .010	12.70	± 0.25	.031	0.79	55	4	275	19	
101-0625031	5/8	.625	± .007	15.88	± 0.18	.563	± .010	14.30	± 0.25	.031	0.79	50	3	250	17	
101-0688031	11/16	.688	± .010	17.48	± 0.25	.625	± .012	15.88	± 0.31	.031	0.79	45	3	225	16	
101-0750032	3/4	.750	± .010	19.05	± 0.25	.688	± .012	17.48	± 0.31	.032	0.81	40	3	200	14	
101-0830040	.830	.830	± .014	21.08	± 0.36	.750	± .014	19.05	± 0.36	.040	1.02	45	3	225	16	
101-0965045	.965	.965	± .016	24.51	± 0.41	.875	± .016	22.22	± 0.41	.045	1.14	45	3	225	16	
101-1100050	1.100	1.100	± .020	27.94	± 0.51	1.000	± .020	25.40	± 0.51	.050	1.27	40	3	200	14	



## Order Information

**Example: 101-0188062-0TC-100**

101-0188062-0TC-100 – PTFE

101-0188062-0TC-100 – Tube O.D. in inches (3/16")

101-0188062-0TC-100 – Tube Wall Thickness in inches (.062")

101-0188062-0TC-100 – Black

101-0188062-0TC-100 – Package Quantity in feet (100')

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

## 101 PTFE Heavy Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
101-0188062	3/16	.188	± .005	4.78	± 0.13	.063	± .003	1.57	± 0.05	.062	1.57	390	27	1950	134
101-0250047	1/4	.250	± .005	6.35	± 0.13	.157	± .005	3.99	± 0.13	.047	1.19	210	14	1050	72
101-0250062	1/4	.250	± .005	6.35	± 0.13	.125	± .005	3.18	± 0.13	.062	1.57	290	20	1450	100
101-0312062	5/16	.312	± .005	7.92	± 0.13	.188	± .006	4.76	± 0.15	.062	1.57	222	15	1110	77
101-0375062	3/8	.375	± .005	9.52	± 0.13	.250	± .005	6.35	± 0.13	.062	1.57	180	12	900	62
101-0438062	7/16	.438	± .005	11.13	± 0.13	.312	± .007	7.92	± 0.18	.062	1.57	150	10	750	52
101-0500062	1/2	.500	± .005	12.70	± 0.13	.375	± .005	9.52	± 0.13	.062	1.57	130	9	650	45
101-0563062	9/16	.563	± .007	14.30	± 0.18	.437	± .008	11.13	± 0.20	.062	1.57	110	8	550	38
101-0625062	5/8	.625	± .007	15.88	± 0.18	.500	± .010	12.70	± 0.25	.062	1.57	100	7	500	34
101-0688062	11/16	.688	± .010	17.48	± 0.25	.563	± .010	14.30	± 0.25	.062	1.57	90	6	450	31
101-0750062	3/4	.750	± .010	19.05	± 0.25	.625	± .010	15.88	± 0.25	.062	1.57	80	6	400	28
101-0875062	7/8	.875	± .014	22.22	± 0.36	.750	± .014	19.05	± 0.36	.062	1.57	70	5	350	24
101-0100062	1	1.000	± .016	25.40	± 0.25	.875	± .016	22.22	± 0.36	.062	1.57	100	6.9	490	33.8

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | [parker.com/pfd](http://parker.com/pfd)

## Fittings

- Fittings available for sizes 3/32" up to 1.1"

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000



# PTFE Tubing

## Series Metric: 201



### Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

### Applications/Markets



- Electrical Insulation
- Fluid Transfer
- Gas Sampling
- Laboratory

### Certifications

- AMS 3653E
- FDA Compliant
- USP Class VI Compliant

### 201 Metric PTFE Tubing

Part Number	Order Size		Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C		
	mm	inch	mm	inch	Tolerance	mm	inch	Tolerance	mm	inch	Tolerance	mm	inch	psi	bar	psi	bar
#																	
201-0300100	3	.118	3	.118	± 0.11	1	.039	± 0.11	1	.039	± 0.04	1	.039	390	27	1950	134
201-0400100	4	.157	4	.157	± 0.11	2	.074	± 0.11	2	.074	± 0.04	1	.039	290	20	1450	100
201-0500100	5	.197	5	.197	± 0.11	3	.118	± 0.11	3	.118	± 0.04	1	.039	220	15	1100	76
201-0600100	6	.236	6	.236	± 0.13	4	.157	± 0.13	4	.157	± 0.05	1	.039	180	12	900	62
201-0700100	7	.276	7	.276	± 0.13	5	.197	± 0.13	5	.197	± 0.05	1	.039	150	10	750	52
201-0800100	8	.315	8	.315	± 0.13	6	.236	± 0.13	6	.236	± 0.05	1	.039	130	9	650	45
201-0900100	9	.354	9	.354	± 0.13	7	.276	± 0.13	7	.276	± 0.05	1	.039	110	8	550	38
201-1000100	10	.394	10	.394	± 0.13	8	.315	± 0.13	8	.315	± 0.05	1	.039	100	7	500	34
201-1200100	12	.472	12	.472	± 0.15	10	.394	± 0.15	10	.394	± 0.06	1	.039	80	6	400	28
201-1400100	14	.551	14	.551	± 0.15	12	.472	± 0.15	12	.472	± 0.06	1	.039	70	5	350	24
201-1600100	16	.630	16	.630	± 0.15	14	.551	± 0.15	14	.551	± 0.06	1	.039	60	4	300	21



## Order Information

### Example: 201-0800100-NT-100

201-0800100-NT-100 – **Metric PTFE**

201-**0800**100-NT-100 – **Tube O.D.** in millimeters (**8 mm**)

201-0800**100**-NT-100 – **Tube Wall Thickness** in millimeters (**1 mm**)

201-0800100-**NT**-100 – **Natural**

2010800100-NT-**100** – **Package Quantity** in feet (**100'**)

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

## Fittings

- Fittings available for sizes 3mm up to 16mm

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

For detailed ordering information, please consult price list or contact Parflex® Division.

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B-59

Hose  
A

Tubing  
Fluoropolymer  
B

Coiled Air Hose  
& Fittings  
C

Transportation  
D

Fittings  
E

Tooling, Equipment  
& Accessories  
F

General Technical  
G

# PTFE Beading

## Series Fractional: TFB



### Applications/Markets



- Pull Cord
- O-Ring Seals
- Spacers
- Woven Filter

### Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting
- Excellent flexlife
- Laser markable

### Certifications

- ASTM D1710, Type 1, Grade 1, Class B
- FDA Compliant
- USP Class VI Compliant

### Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Package quantities are not continuous

### Colors

- Natural, Opaque to translucent

See Color Code Table

## Order Information

### Example: TFB028-NT

TFB-028-NT – PTFE Beading

TFB-028-NT – Beading O.D. in inches (.028")

TFB-028-NT – Natural

TFB-028-NT – Bulk Tubing

### TFB PTFE Beading

Part Number	Diameter		Tolerance		Standard Packaging
	inch	mm	inch	mm	
#					
TFB015	.015	0.38	± .002	± 0.05	1,000 ft. Spool
TFB020	.020	0.51	± .002	± 0.05	1,000 ft. Spool
TFB025	.025	0.64	± .002	± 0.05	1,000 ft. Spool
TFB028	.028	0.71	± .002	± 0.05	1,000 ft. Spool
TFB031	.031	0.79	± .002	± 0.05	1,000 ft. Spool
TFB035	.035	0.89	± .002	± 0.05	1,000 ft. Spool
TFB039	.039	0.99	± .002	± 0.05	1,000 ft. Spool
TFB043	.043	1.09	± .002	± 0.05	1,000 ft. Spool
TFB047	.047	1.19	± .002	± 0.05	1,000 ft. Spool
TFB050	.050	1.27	± .002	± 0.05	1,000 ft. Spool
TFB055	.055	1.40	± .003	± 0.08	1,000 ft. Spool
TFB060	.060	1.52	± .003	± 0.08	1,000 ft. Spool
TFB062	.062	1.57	± .003	± 0.08	1,000 ft. Spool
TFB070	.070	1.78	± .003	± 0.08	1,000 ft. Spool
TFB072	.072	1.83	± .003	± 0.08	1,000 ft. Spool
TFB078	.078	1.98	± .004	± 0.10	500 ft. Spool
TFB080	.080	2.03	± .004	± 0.10	500 ft. Spool
TFB084	.084	2.13	± .004	± 0.10	500 ft. Spool
TFB090	.090	2.29	± .004	± 0.10	500 ft. Spool
TFB094	.094	2.39	± .004	± 0.10	500 ft. Spool
TFB100	.100	2.54	± .004	± 0.10	500 ft. Spool
TFB109	.109	2.77	± .004	± 0.10	500 ft. Spool
TFB115	.115	2.92	± .004	± 0.10	500 ft. Spool
TFB125	.125	3.18	± .004	± 0.10	Random Length
TFB150	.150	3.81	± .004	± 0.10	Random Length
TFB188	.188	4.78	± .004	± 0.10	Random Length

For detailed ordering information, please consult price list or contact Parflex® Division.

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# PTFE Heat Shrinkable Tubing

Series 2:1 Fractional: HS2TFS, HS2TFT, HS2TFL, HS2TFI



## Features

- Virgin Polytetrafluoroethylene resin
- 2:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting

## Applications/Markets



- Electrical Insulation
- Protective Cover
- Laboratory

## Certifications

- Light Wall (HS2TFL) - AMS-DTL-23053/12, Class 4
- Thin Wall (HS2TFT) - AMS-DTL-23053/12, Class 3, AMS 3585
- Standard Wall (HS2TFS) - AMS-DTL-23053/12, Class 2, AMS 3586
- Heavy Wall (HS2TFI) - AMS-DTL-23053/12, Class 2
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

### HS2TFS & HS2TFT PTFE Fractional Heat Shrink Tubing (2:1) SW & TW

Size (Inch)	Minimum Expanded I.D.		Maximum Recovered I.D.		Standard Wall				Thin Wall			
	inch	mm	inch	mm	Mil Spec*	Part Number	Nominal Recovered Wall		Mil Spec*	Part Number	Nominal Recovered Wall	
							inch	mm			inch	mm
1/8	.215	5.5	.130	3.3	23053/12-215	HS2TFS1/8	.020 ± .004	0.51 ± 0.10	23053/12-319	HS2TFT1/8	.015 ± .003	0.38 ± 0.08
1/4	.410	10.4	.260	6.6	23053/12-222	HS2TFS1/4	.020 ± .004	0.51 ± 0.10	23053/12-326	HS2TFT1/4	.015 ± .004	0.38 ± 0.10
5/16	.470	11.9	.329	8.4	23053/12-225	HS2TFS5/16	.020 ± .004	0.51 ± 0.10	23053/12-329	HS2TFT5/16	.015 ± .004	0.38 ± 0.10
3/8	.560	14.2	.399	10.1	23053/12-228	HS2TFS3/8	.025 ± .006	0.64 ± 0.15	-	HS2TF 3/8	.015 ± .004	0.38 ± 0.10
7/16	.655	16.6	.462	11.7	23053/12-229	HS2TFS7/16	.025 ± .006	0.64 ± 0.15	-	HS2TFT7/16	.018 ± .004	0.46 ± 0.10
1/2	.750	19.1	.524	13.3	23053/12-230	HS2TFS1/2	.025 ± .006	0.64 ± 0.15	-	HS2TFT1/2	.018 ± .004	0.46 ± 0.10
5/8	.930	23.6	.655	16.6	23053/12-231	HS2TFS5/8	.030 ± .006	0.76 ± 0.15	-	HS2TF 5/8	.020 ± .004	0.51 ± 0.10
3/4	1.125	28.6	.786	20.0	23053/12-232	HS2TFS3/4	.035 ± .008	0.89 ± 0.20	-	HS2TFT3/4	.025 ± .004	0.64 ± 0.10
7/8	1.130	28.7	.911	23.1	23053/12-233	HS2TFS7/8	.035 ± .008	0.89 ± 0.20	-	HS2TFT7/8	.025 ± .004	0.64 ± 0.10
1	1.500	38.1	1.036	26.3	23053/12-234	HS2TFS1.00	.035 ± .008	0.89 ± 0.20	-	HS2TFT1.00	.025 ± .004	0.64 ± 0.10

### HS2TFL PTFE Fractional Heat Shrink Tubing (2:1) LW

Size (Inch)	Minimum Expanded I.D.		Maximum Recovered I.D.		Light Wall			
	inch	mm	inch	mm	Mil Spec*	Part Number	Nominal Recovered Wall	
							inch	mm
1/8	.215	5.5	.130	3.3	23053/12-415	HS2TFL1/8	.008 ± .002	0.20 ± 0.05
1/4	.410	10.4	.260	6.6	23053/12-422	HS2TFL1/4	.010 ± .003	0.25 ± 0.08
5/16	.470	11.9	.329	8.4	23053/12-425	HS2TFL5/16	.012 ± .003	0.31 ± 0.08



For detailed ordering information, please consult price list or contact Parflex® Division.

## Order Information

### Example: HS2TFI7/8-NT

HS2TFI7/8-NT – Heat Shrink

HS2TFI7/8-NT – Shrink Ratio (2:1)

HS2TFI7/8-NT – PTFE

HS2TFI7/8-NT – Wall Type (Industrial Wall)

HS2TFI7/8-NT – Heat Shrink Size in inches (7/8")

HS2TFI7/8-NT – Natural

HS2TFI7/8-NT – Bulk Tubing

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Shrink Temperature 662°F/350°C for 10 minutes per AMS-DTL-23053/12
- \*Dielectric Strength:  $\geq 1,400$  V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- PTFE Fractional Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

## Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC .. ie HS1.3FEP24-0CC48.000

### HS2TFI PTFE Fractional Heat Shrink Tubing (2:1), Ind. Heavy Wall

Part Number	Size (inch)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
	inch		inch	mm	inch	mm	inch	mm
HS2TFI1/8	1/8	23053/12-101	.166	4.2	.130	3.3	.030 ± .005	0.76 ± 0.13
HS2TFI3/16	3/16	23053/12-102	.250	6.4	.193	4.9	.030 ± .005	0.76 ± 0.13
HS2TFI1/4	1/4	23053/12-103	.333	8.4	.257	6.5	.030 ± .005	0.76 ± 0.13
HS2TFI5/16	5/16	23053/12-104	.415	10.5	.320	8.1	.030 ± .005	0.76 ± 0.13
HS2TFI3/8	3/8	23053/12-105	.498	12.6	.383	9.7	.030 ± .005	0.76 ± 0.13
HS2TFI7/16	7/16	23053/12-106	.580	14.7	.448	11.4	.030 ± .006	0.76 ± 0.15
HS2TFI1/2	1/2	23053/12-107	.666	16.9	.510	13.0	.030 ± .006	0.76 ± 0.15
HS2TFI9/16	9/16	23053/12-108	.748	19.0	.572	14.5	.030 ± .006	0.76 ± 0.15
HS2TFI5/8	5/8	23053/12-109	.830	21.1	.637	16.2	.030 ± .006	0.76 ± 0.15
HS2TFI11/16	11/16	23053/12-110	.915	23.2	.700	17.8	.032 ± .006	0.81 ± 0.15
HS2TFI3/4	3/4	23053/12-111	1.000	25.4	.764	19.4	.040 ± .007	1.02 ± 0.18
HS2TFI7/8	7/8	23053/12-112	1.170	29.7	.891	22.6	.045 ± .007	1.14 ± 0.18
HS2TFI1.00	1	23053/12-113	1.330	33.8	1.020	25.9	.050 ± .008	1.27 ± 0.20

Color Code		
<input type="radio"/>	N	Natural
<input type="radio"/>	0	Black
<input type="radio"/>	1	Brown
<input type="radio"/>	2	Red
<input type="radio"/>	3	Orange
<input type="radio"/>	4	Yellow
<input type="radio"/>	5	Green
<input type="radio"/>	6	Blue
<input type="radio"/>	7	Violet
<input type="radio"/>	8	Gray
<input type="radio"/>	9	White

For detailed ordering information, please consult price list or contact Parflex® Division.



# PTFE Heat Shrinkable Tubing

## Series 2:1 AWG: HS2TFS, HS2TFT, HS2TFL



### Features

- Virgin Polytetrafluoroethylene resin
- 2:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting

### Certifications

- Light Wall – AMS-DTL-23053/12, Class 4
- Thin Wall – AMS-DTL-23053/12, Class 3, AMS 3585
- Standard Wall – AMS-DTL-23053/12, Class 2, AMS 3586
- Heavy Wal – AMS-DTL-23053/12, Class 2
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Electrical Insulation
- Protective Cover
- Wire Insulation

#### HS2TFS Standard Wall (2:1)

Part Number	Size (AWG)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS2TFS24	24	23053/12-201	.050	1.27	.027	0.69	.012 ± .002	0.31 ± 0.05
HS2TFS22	22	23053/12-202	.055	1.40	.032	0.81	.012 ± .002	0.31 ± 0.05
HS2TFS20	20	23053/12-203	.060	1.52	.039	0.99	.016 ± .003	0.41 ± 0.08
HS2TFS19	19	23053/12-204	.065	1.65	.043	1.09	.016 ± .003	0.41 ± 0.08
HS2TFS18	18	23053/12-205	.076	1.93	.049	1.25	.016 ± .003	0.41 ± 0.08
HS2TFS17	17	23053/12-206	.085	2.16	.054	1.37	.016 ± .003	0.41 ± 0.08
HS2TFS16	16	-	.093	2.36	.061	1.55	.016 ± .003	0.41 ± 0.08
HS2TFS15	15	23053/12-207	.110	2.79	.067	1.70	.016 ± .003	0.41 ± 0.08
HS2TFS14	14	23053/12-208	.120	3.05	.072	1.83	.016 ± .003	0.41 ± 0.08
HS2TFS13	13	23053/12-210	.140	3.56	.080	2.03	.016 ± .003	0.41 ± 0.08
HS2TFS12	12	23053/12-211	.150	3.81	.089	2.26	.016 ± .003	0.41 ± 0.08
HS2TFS11	11	23053/12-212	.170	4.32	.101	2.57	.016 ± .003	0.41 ± 0.08
HS2TFS10	10	23053/12-213	.191	4.85	.112	2.84	.016 ± .003	0.41 ± 0.08
HS2TFS09	9	23053/12-214	.205	5.21	.124	3.15	.020 ± .004	0.51 ± 0.10
HS2TFS08	8	23053/12-216	.240	6.10	.141	3.58	.020 ± .004	0.51 ± 0.10
HS2TFS07	7	23053/12-217	.270	6.86	.158	4.01	.020 ± .004	0.51 ± 0.10
HS2TFS06	6	23053/12-218	.302	7.67	.178	4.52	.020 ± .004	0.51 ± 0.10
HS2TFS05	5	23053/12-219	.320	8.13	.198	5.03	.020 ± .004	0.51 ± 0.10
HS2TFS04	4	23053/12-220	.370	9.40	.224	5.69	.020 ± .004	0.51 ± 0.10
HS2TFS03	3	23053/12-221	.390	9.91	.249	6.32	.020 ± .004	0.51 ± 0.10
HS2TFS02	2	23053/12-223	.430	10.9	.278	7.06	.020 ± .004	0.51 ± 0.10
HS2TFS01	1	23053/12-224	.450	11.4	.311	7.90	.020 ± .004	0.51 ± 0.10
HS2TFS00	0	23053/12-226	.470	11.9	.347	8.81	.020 ± .004	0.51 ± 0.10



For detailed ordering information, please consult price list or contact Parflex® Division.



## Order Information

### Example: HS2TFS15-4TC-500

HS2TFS15-4TC-500 – Heat Shrink

HS2TFS15-4TC-500 – Shrink Ratio (2:1)

HS2TFS15-4TC-500 – PTFE

HS2TFS15-4TC-500 – Wall Type (Standard Wall)

HS2TFS15-4TC-500 – Heat Shrink Size in AWG (AWG15)

HS2TFS15-4TC-500 – Yellow

HS2TFS15-4TC-500 – Package Quantity in feet (500')

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Shrink Temperature 662°F/350°C for 10 minutes per AMS-DTL-23053/12
- \*Dielectric Strength:  $\geq 1,400$  V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- PTFE AWG Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

## Colors

- Natural, Opaque to translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

For detailed ordering information, please consult price list or contact Parflex® Division.

# PTFE Heat Shrinkable Tubing

## Series 2:1 AWG: HS2TFS, HS2TFT, HS2TFL (cont.)

### HS2TFT Thin Wall (2:1)

Part Number	Size (AWG)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS2TFT30	30	23053/12-301	.034	0.86	.015	0.38	.009 ± .002	0.23 ± 0.05
HS2TFT28	28	23053/12-302	.038	0.97	.018	0.46	.009 ± .002	0.23 ± 0.05
HS2TFT26	26	23053/12-303	.046	1.16	.022	0.56	.010 ± .003	0.25 ± 0.08
HS2TFT24	24	23053/12-304	.050	1.27	.027	0.69	.010 ± .002	0.25 ± 0.08
HS2TFT22	22	23053/12-305	.055	1.40	.032	0.81	.012 ± .003	0.31 ± 0.08
HS2TFT20	20	23053/12-306	.060	1.52	.039	0.99	.012 ± .003	0.31 ± 0.08
HS2TFT19	19	23053/12-307	.065	1.65	.043	1.09	.012 ± .003	0.31 ± 0.08
HS2TFT18	18	23053/12-308	.076	1.93	.049	1.25	.012 ± .003	0.31 ± 0.08
HS2TFT17	17	23053/12-309	.085	2.16	.054	1.37	.012 ± .003	0.31 ± 0.08
HS2TFT16	16	23053/12-310	.093	2.36	.061	1.55	.012 ± .003	0.31 ± 0.08
HS2TFT15	15	23053/12-311	.110	2.79	.067	1.70	.012 ± .003	0.31 ± 0.08
HS2TFT14	14	23053/12-312	.120	3.05	.072	1.83	.012 ± .003	0.31 ± 0.08
HS2TFT13	13	23053/12-313	.140	3.56	.080	2.03	.012 ± .003	0.31 ± 0.08
HS2TFT12	12	23053/12-314	.150	3.81	.089	2.26	.012 ± .003	0.31 ± 0.08
HS2TFT11	11	23053/12-316	.170	4.32	.101	2.57	.012 ± .003	0.31 ± 0.08
HS2TFT10	10	23053/12-317	.191	4.85	.112	2.84	.012 ± .003	0.31 ± 0.08
HS2TFT09	9	23053/12-318	.205	5.21	.124	3.15	.015 ± .004	0.38 ± 0.10
HS2TFT08	8	23053/12-320	.240	6.10	.141	3.58	.015 ± .004	0.38 ± 0.10
HS2TFT07	7	23053/12-321	.270	6.86	.158	4.01	.015 ± .004	0.38 ± 0.10
HS2TFT06	6	23053/12-322	.302	7.67	.178	4.52	.015 ± .004	0.38 ± 0.10
HS2TFT05	5	23053/12-323	.320	8.13	.198	5.03	.015 ± .004	0.38 ± 0.10
HS2TFT04	4	23053/12-324	.370	9.40	.224	5.69	.015 ± .004	0.38 ± 0.10
HS2TFT03	3	23053/12-325	.390	9.91	.249	6.32	.015 ± .004	0.38 ± 0.10
HS2TFT02	2	23053/12-327	.430	10.9	.278	7.06	.015 ± .004	0.38 ± 0.10
HS2TFT01	1	23053/12-328	.450	11.4	.311	7.90	.015 ± .004	0.38 ± 0.10
HS2TFT00	0	23053/12-330	.470	11.9	.347	8.81	.015 ± .004	0.38 ± 0.10

## Certifications

- Thin Wall - AMS-DTL-23053/12, Class 3
- AMS 3585
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)



For detailed ordering information, please consult price list or contact Parflex® Division.

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**HS2TFL Light Wall (2:1)**

Part Number	Size (AWG)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS2TFL24	24	23053/12-404	.050	1.27	.025	0.64	.006 ± .002	0.15 ± 0.05
HS2TFL22	22	23053/12-405	.055	1.40	.031	0.79	.006 ± .002	0.15 ± 0.05
HS2TFL20	20	23053/12-406	.060	1.52	.038	0.97	.006 ± .002	0.15 ± 0.05
HS2TFL19	19	23053/12-407	.065	1.65	.043	1.09	.006 ± .002	0.15 ± 0.05
HS2TFL18	18	23053/12-408	.076	1.93	.046	1.17	.006 ± .002	0.15 ± 0.05
HS2TFL17	17	23053/12-409	.085	2.16	.054	1.37	.006 ± .002	0.15 ± 0.05
HS2TFL16	16	23053/12-410	.093	2.36	.057	1.45	.006 ± .002	0.15 ± 0.05
HS2TFL15	15	23053/12-411	.110	2.79	.063	1.60	.006 ± .002	0.15 ± 0.05
HS2TFL14	14	23053/12-412	.120	3.05	.072	1.83	.008 ± .002	0.20 ± 0.05
HS2TFL13	13	23053/12-413	.140	3.56	.080	2.03	.008 ± .002	0.20 ± 0.05
HS2TFL12	12	23053/12-414	.150	3.81	.089	2.26	.008 ± .002	0.20 ± 0.05
HS2TFL11	11	23053/12-416	.170	4.32	.099	2.51	.008 ± .002	0.20 ± 0.05
HS2TFL10	10	23053/12-417	.191	4.85	.110	2.79	.008 ± .002	0.20 ± 0.05
HS2TFL09	9	23053/12-418	.205	5.21	.122	3.10	.008 ± .002	0.20 ± 0.05
HS2TFL08	8	23053/12-420	.240	6.10	.139	3.53	.008 ± .002	0.20 ± 0.05
HS2TFL07	7	23053/12-421	.270	6.86	.154	3.91	.008 ± .002	0.20 ± 0.05
HS2TFL06	6	23053/12-422	.302	7.67	.172	4.37	.010 ± .003	0.25 ± 0.08
HS2TFL05	5	23053/12-423	.320	8.13	.192	4.88	.010 ± .003	0.25 ± 0.08
HS2TFL04	4	23053/12-424	.370	9.40	.214	5.44	.010 ± .003	0.25 ± 0.08
HS2TFL03	3	23053/12-425	.390	9.91	.241	6.12	.010 ± .003	0.25 ± 0.08
HS2TFL02	2	23053/12-427	.430	10.9	.270	6.88	.010 ± .003	0.25 ± 0.08
HS2TFL01	1	23053/12-428	.450	11.4	.301	7.65	.010 ± .003	0.25 ± 0.08
HS2TFL00	0	23053/12-430	.470	11.9	.347	8.81	.012 ± .003	0.31 ± 0.08

**Certifications**

- Light Wall - AMS-DTL-23053/12, Class 4
- ASTM D2902 Type I
- FDA Compliant
- USP Class VI Compliant

**Notes**

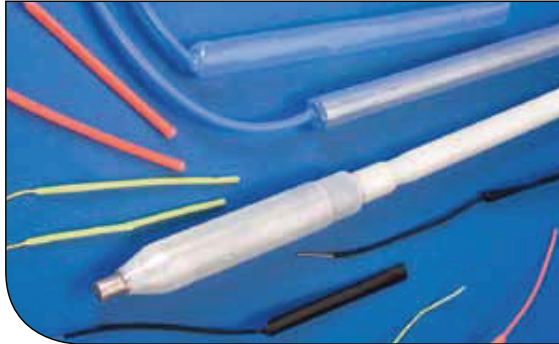
- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)

*For detailed ordering information, please consult price list or contact Parflex® Division.*



# PTFE Heat Shrinkable Tubing

## Series 4:1 AWG: HS4TFI



### Features

- Virgin Polytetrafluoroethylene resin
- 4:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Nonwetting

### Applications/Markets



- Electrical Insulation
- Protective Cover
- Rollers
- Bulb Protection

### Certifications

- AMS-DTL-23053/12, Class 5
- ASTM D2902 Type I
- AMS 3584
- FDA Compliant
- USP Class VI Compliant

### HS4TFI PTFE Industrial Wall Heat Shrink Tubing (4:1)

Part Number	Size (inch)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS4TFI5/64	5/64	23053/12-501	.078	1.98	.025	0.64	.009 ± .002	0.23 ± 0.05
HS4TFI1/8	1/8	23053/12-502	.125	3.18	.037	0.94	.012 ± .002	0.31 ± 0.05
HS4TFI3/16	3/16	23053/12-503	.187	4.75	.050	1.27	.012 ± .002	0.31 ± 0.05
HS4TFI1/4	1/4	23053/12-504	.250	6.35	.063	1.60	.012 ± .002	0.31 ± 0.05
HS4TFI5/16	5/16	23053/12-505	.312	7.92	.078	1.98	.012 ± .002	0.31 ± 0.05
HS4TFI3/8	3/8	23053/12-506	.375	9.52	.096	2.44	.012 ± .002	0.31 ± 0.05
HS4TFI7/16	7/16	23053/12-507	.438	11.1	.112	2.84	.012 ± .002	0.31 ± 0.05
HS4TFI1/2	1/2	23053/12-508	.500	12.7	.144	3.66	.015 ± .004	0.38 ± 0.10
HS4TFI5/8	5/8	23053/12-510	.625	15.9	.178	4.52	.015 ± .004	0.38 ± 0.10
HS4TFI3/4	3/4	23053/12-512	.750	19.1	.224	5.70	.015 ± .004	0.38 ± 0.10
HS4TFI7/8	7/8	23053/12-513	.875	22.2	.244	6.20	.015 ± .004	0.38 ± 0.10
HS4TFI1.00	1	23053/12-514	1.000	25.4	.278	7.06	.015 ± .004	0.38 ± 0.10
HS4TFI1.25	1-1/4	23053/12-515	1.250	31.8	.347	8.81	.015 ± .004	0.38 ± 0.10

## Order Information

### Example: HS4TFI5/8-NT

HS4TFI5/8-NT – Heat Shrink

HS4TFI5/8-NT – Shrink Ratio (4:1)

HS4TFI5/8-NT – PTFE

HS4TFI5/8-NT – Wall Type (Industrial Wall)

HS4TFI5/8-NT – Heat Shrink Size in inches (5/8")

HS4TFI5/8-NT – Natural

HS4TFI5/8-NT – Bulk Tubing

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Shrink Temperature 662°F/350°C for 10 minutes per AMS-DTL-23053/12
- For full recovery, expanded diameter should be 50% larger than the diameter of the object to be recovered over
- \*Dielectric Strength:  $\geq 1,400$  V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- PTFE Fractional Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

## Colors

- Natural, Opaque to translucent

See Color Code Table

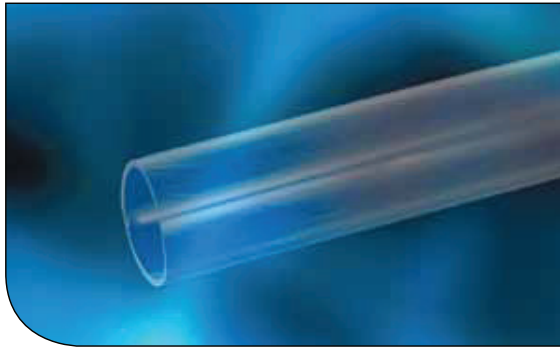
- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC....ie HS2TFT1/8-2TC  
..ie HS1.3FEP24-0CC48.000

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

For detailed ordering information, please consult price list or contact Parflex® Division.

# FEP Tubing

## Series Fractional: 103 Industrial & Heavy Wall



### Features

- Virgin Fluorinated Ethylene Propylene resin
- Translucent
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Nonwetting
- Weldable

### Certifications

- ASTM D 3296-98
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Nitrogen Filling
- Fluid Transfer
- Gas Sampling
- Laboratory
- Down Hole Pump
- Ozone Sampling
- Life Science

### 103 FEP Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
103-0062016	1/16	.062	± .003	1.57	± 0.08	.031	± .003	0.41	± 0.08	.016	0.79	480	33	2400	165
103-0094031	3/32	.094	± .005	2.40	± 0.13	.031	± .002	0.79	± 0.05	.031	0.79	630	43	3150	217
103-0125031	1/8	.125	± .003	3.18	± 0.08	.062	± .003	0.79	± 0.08	.031	1.57	470	32	2350	162
103-0156031	5/32	.157	± .005	3.99	± 0.13	.094	± .005	0.79	± 0.13	.031	2.39	360	25	1800	124
103-0188031	3/16	.188	± .005	4.78	± 0.13	.125	± .005	0.79	± 0.13	.031	3.18	290	20	1450	100
103-0250031	1/4	.250	± .005	6.35	± 0.13	.188	± .005	0.79	± 0.13	.031	4.78	210	14	1050	72
103-0312031	5/16	.312	± .005	7.92	± 0.13	.250	± .005	0.79	± 0.13	.031	6.35	160	11	800	55
103-0375031	3/8	.375	± .005	9.52	± 0.13	.312	± .005	0.79	± 0.13	.031	7.92	130	9	650	45
103-0438031	7/16	.438	± .005	11.13	± 0.13	.375	± .005	0.79	± 0.13	.031	9.52	110	8	550	38
103-0500031	1/2	.500	± .006	12.70	± 0.15	.438	± .006	0.79	± 0.15	.031	11.13	90	6	450	31
103-0563031	9/16	.563	± .006	14.30	± 0.15	.500	± .006	0.79	± 0.15	.031	12.70	80	6	400	28

## Order Information

### Example: 103-0250031-NT-100

103-0250031-NT-100 – FEP

103-0250031-NT-100 – Tube O.D. in inches (1/4")

103-0250031-NT-100 – Tube Wall Thickness in inches (.031")

103-0250031-NT-100 – Natural

103-0250031-NT-100 – Bulk Tubing

103-0250031-NT-100 – Package Quantity in feet (100')

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

### 103 FEP Heavy Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
103-0188062	3/16	.188	± .005	4.78	± 0.13	.062	± .005	1.63	± 0.13	0.062	1.57	630	43	3150	217
103-0250040	1/4	.250	± .005	6.35	± 0.13	.170	± .005	4.32	± 0.13	0.040	1.02	280	19	1400	97
103-0250047	1/4	.250	± .005	6.35	± 0.13	.156	± .005	3.96	± 0.13	0.047	1.19	340	23	1700	117
103-0250062	1/4	.250	± .005	6.35	± 0.13	.125	± .005	3.18	± 0.13	0.062	1.57	470	32	2350	162
103-0312062	5/16	.312	± .005	7.92	± 0.13	.188	± .005	4.78	± 0.13	0.062	1.57	360	25	1800	124
103-0375062	3/8	.375	± .005	9.52	± 0.13	.250	± .005	6.35	± 0.13	0.062	1.57	290	20	1450	100
103-0438062	7/16	.438	± .005	11.13	± 0.13	.312	± .005	7.92	± 0.13	0.062	1.57	250	17	1250	86
103-0500062	1/2	.500	± .005	12.70	± 0.13	.375	± .005	9.53	± 0.13	0.062	1.57	210	14	1050	72
103-0625062	5/8	.625	± .006	15.88	± 0.15	.500	± .006	12.70	± 0.15	0.062	1.57	160	11	800	55
103-0750062	3/4	.750	± .006	19.05	± 0.15	.625	± .006	15.88	± 0.15	0.062	1.57	130	9	650	45
103-0100062	1	1.000	± .010	25.40	± 0.25	.875	± .010	22.22	± 0.25	0.062	1.57	90	6	450	31

For detailed ordering information, please consult price list or contact Parflex® Division.

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## Fittings

- Fittings available for sizes 1/8" up to 1"

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 400°F (204°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000



B-71

A  
Hose

B  
Tubing  
Fluoropolymer

C  
Coiled Air Hose  
& Fittings

D  
Transportation

E  
Fittings

F  
Tooling, Equipment  
& Accessories

G  
General Technical

# FEP Tubing

## Series Metric: 203



### Features

- Virgin Fluorinated Ethylene Propylene resin
- Translucent
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Nonwetting
- Weldable

### Certifications

- ASTM D 3296-98
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Nitrogen Filling
- Fluid Transfer
- Gas Sampling
- Laboratory
- Down Hole Pump
- Ozone Sampling
- Life Science

### 203 Metric FEP Tubing

Part Number	Order Size		Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
	mm	inch	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	inch	psi	bar	psi	bar
#																
203-0300100	3	3	± 0.11	.118	± .004	1	± 0.11	.039	± .004	1	25.4	27	390	134	1950	
203-0400100	4	4	± 0.11	.157	± .004	2	± 0.11	.078	± .004	1	25.4	20	290	100	1450	
203-0500100	5	5	± 0.11	.197	± .004	3	± 0.11	.118	± .004	1	25.4	15	220	76	1100	
203-0600100	6	6	± 0.13	.236	± .005	4	± 0.13	.157	± .005	1	25.4	12	180	62	900	
203-0700100	7	7	± 0.13	.276	± .005	5	± 0.13	.197	± .005	1	25.4	10	150	52	750	
203-0800100	8	8	± 0.13	.315	± .005	6	± 0.13	.236	± .005	1	25.4	9	130	45	650	
203-0900100	9	9	± 0.13	.354	± .005	7	± 0.13	.276	± .005	1	25.4	8	110	38	550	
203-1000100	10	10	± 0.13	.394	± .005	8	± 0.13	.315	± .005	1	25.4	7	100	34	500	
203-1200100	12	12	± 0.15	.472	± .006	10	± 0.15	.394	± .006	1	25.4	6	80	28	400	





## Order Information

**Example: 203-0600100-NT-50**

203-0600100-NT-50 – **Metric FEP**

203-**0600**100-NT-50 – **Tube O.D.** in millimeters (**6 mm**)

203-0600**100**-NT-50 – **Tube Wall Thickness** in millimeters (**1 mm**)

203-0600100-**NT**-50 – **Natural**

203-0600100-**NT**-50 – **Bulk Tubing**

2030600100-NT-**50** – **Package Quantity** in feet (**50'**)

## Fittings

- Fittings available for sizes 3mm up to 12mm

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 400°F (204°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

*For detailed ordering information, please consult price list or contact Parflex® Division.*

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B-73

A  
Hose

B  
Tubing  
Fluoropolymer

C  
Coiled Air Hose  
& Fittings

D  
Transportation

E  
Fittings

F  
Tooling, Equipment  
& Accessories

G  
General Technical

# FEP Heat Shrinkable Tubing

## Series 1.3:1 HS1.3FEP



### Features

- Easier to shrink than PTFE
- Chemically inert
- Low coefficient of friction
- Superior dielectric strength
- Good heat resistance
- Self extinguishing
- Nonwetting

### Certifications

- 1.3:1 - AMS-DTL-23053/11, Class 1
- ASTM D2902 Type II
- ASTM D3296-98
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Protective Cover
- UV Light Covering
- Product Testing
- Rollers

#### HS1.3FEP AWG Heat Shrink Tubing (1.3:1)

Part Number	Size (AWG)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS1.3FEP24	24	23053/11-101	.031	0.79	.027	0.69	.008 ± .002	0.20 ± 0.05
HS1.3FEP22	22	23053/11-102	.036	0.91	.032	0.81	.008 ± .002	0.20 ± 0.05
HS1.3FEP20	20	23053/11-103	.045	1.14	.039	0.99	.008 ± .002	0.20 ± 0.05
HS1.3FEP18	18	23053/11-104	.060	1.52	.049	1.25	.008 ± .002	0.20 ± 0.05
HS1.3FEP16	16	23053/11-105	.075	1.90	.061	1.55	.009 ± .002	0.23 ± 0.05
HS1.3FEP14	14	23053/11-106	.092	2.34	.072	1.83	.009 ± .002	0.23 ± 0.05
HS1.3FEP12	12	23053/11-107	.115	2.92	.089	2.26	.009 ± .002	0.23 ± 0.05
HS1.3FEP10	10	23053/11-108	.141	3.58	.114	2.90	.010 ± .003	0.25 ± 0.08
HS1.3FEP09	9	23053/11-109	.158	4.01	.124	3.15	.010 ± .003	0.25 ± 0.08
HS1.3FEP08	8	23053/11-110	.180	4.57	.143	3.63	.010 ± .003	0.25 ± 0.08
HS1.3FEP07	7	23053/11-111	.197	5.00	.158	4.01	.011 ± .004	0.28 ± 0.10
HS1.3FEP06	6	23053/11-112	.225	5.72	.180	4.57	.011 ± .004	0.28 ± 0.10
HS1.3FEP05	5	23053/11-113	.248	6.30	.198	5.03	.011 ± .004	0.28 ± 0.10
HS1.3FEP04	4	23053/11-114	.290	7.37	.226	5.74	.011 ± .004	0.28 ± 0.10
HS1.3FEP03	3	23053/11-115	.310	7.87	.249	6.32	.011 ± .003	0.28 ± 0.08
HS1.3FEP02	2	23053/11-116	.365	9.27	.280	7.11	.012 ± .004	0.31 ± 0.10
HS1.3FEP01	1	23053/11-117	.400	10.2	.311	7.90	.012 ± .004	0.31 ± 0.10
HS1.3FEP00	0	23053/11-118	.440	11.2	.349	8.86	.012 ± .004	0.31 ± 0.10

## Order Information

**Example: HS1.3FEP24-0CC48.000**

HS1.3FEP24-0CC48.000 – Heat Shrink

HS1.3FEP24-0CC48.000 – Shrink Ratio (1.3:1)

HS1.3FEP24-0CC48.000 – FEP

HS1.3FEP24-0CC48.000 – Heat Shrink Size in AWG

**(AWG 24) (For inch size use inch (3/8"))**

HS1.3FEP24-0CC48.000 – Black

HS1.3FEP24-0CC48.000 – Package Quantity in feet (48')

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

### HS1.3FEP Fractional Heat Shrink Tubing (1.3:1)

Part Number	Size (inch)	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS1.3FEP3/8	3/8	23053/11-119	.500	12.7	.383	9.73	.015 ± .004	0.38 ± 0.10
HS1.3FEP7/16	7/16	23053/11-120	.580	14.7	.448	11.4	.020 ± .004	0.51 ± 0.10
HS1.3FEP1/2	1/2	23053/11-121	.666	16.9	.510	13.0	.020 ± .004	0.51 ± 0.10
HS1.3FEP5/8	5/8	23053/11-122	.830	21.1	.637	16.2	.025 ± .004	0.64 ± 0.10
HS1.3FEP3/4	3/4	23053/11-123	1.000	25.4	.764	19.4	.030 ± .004	0.76 ± 0.10
HS1.3FEP7/8	7/8	23053/11-124	1.170	29.7	.891	22.6	.035 ± .004	0.89 ± 0.10
HS1.3FEP1.00	1	23053/11-126	1.330	33.8	1.020	25.9	.035 ± .004	0.89 ± 0.10
HS1.3FEP1.13	1-1/8	23053/11-133	1.500	38.1	1.145	29.1	.035 ± .004	0.89 ± 0.10
HS1.3FEP1.25	1-1/4	23053/11-134	1.666	42.3	1.270	32.3	.035 ± .004	0.89 ± 0.10
HS1.3FEP1.38	1-3/8	23053/11-135	1.833	46.6	1.390	35.3	.035 ± .004	0.89 ± 0.10
HS1.3FEP1.50	1-1/2	23053/11-136	2.000	50.8	1.520	38.6	.035 ± .004	0.89 ± 0.10

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 400°F (204°C)
- Shrink Temperature  
1" Dia. and below - 410°F/210°C  
Over 1" Dia. - 430°F/221°C
- \*Dielectric Strength: ≥ 2,000 V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

## Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

For detailed ordering information, please consult price list or contact Parflex® Division.

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B-75

Hose  
A

Tubing  
Fluoropolymer  
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# FEP Heat Shrinkable Tubing

## Series 1.67:1 HS1.6FEP



### Features

- Easier to shrink than PTFE
- Chemically inert
- Low coefficient of friction
- Superior dielectric strength
- Good heat resistance
- Self extinguishing
- Nonwetting

### Certifications

- 1.67:1 - AMS-DTL-23053/11, Class 2
- ASTM D3296-98
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Protective Cover
- UV Light Covering
- Product Testing
- Rollers

### HS1.6FEP Fractional Heat Shrink Tubing (1.67:1)

Part Number	Size	Mil Spec*	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall	
			inch	mm	inch	mm	inch	mm
HS1.6FEP3/32	3/32	23053/11-201	.093	2.36	.056	1.42	.008 ± .003	0.20 ± 0.08
HS1.6FEP1/8	1/8	23053/11-202	.125	3.18	.075	1.90	.010 ± .003	0.25 ± 0.08
HS1.6FEP3/16	3/16	23053/11-203	.188	4.78	.115	2.92	.010 ± .003	0.25 ± 0.08
HS1.6FEP1/4	1/4	23053/11-204	.250	6.35	.150	3.81	.010 ± .003	0.25 ± 0.08
HS1.6FEP3/8	3/8	23053/11-205	.375	9.52	.225	5.72	.012 ± .003	0.31 ± 0.08
HS1.6FEP1/2	1/2	23053/11-206	.500	12.7	.300	7.62	.015 ± .004	0.38 ± 0.10
HS1.6FEP3/4	3/4	23053/11-207	.750	19.1	.450	11.4	.020 ± .004	0.51 ± 0.10
HS1.6FEP1.00	1	23053/11-208	1.000	25.4	.600	15.2	.025 ± .005	0.64 ± 0.13
HS1.6FEP1.25	1-1/2	23053/11-209	1.500	38.1	.900	22.9	.030 ± .005	0.76 ± 0.13
HS1.6FEP1.50	2	23053/11-210	2.000	50.8	1.200	30.5	.030 ± .005	0.76 ± 0.13

## Order Information

### Example: HS1.6FEP3/32-NC48.000

HS1.6FEP3/32-NC48.000 – Heat Shrink

HS1.6FEP3/32-NC48.000 – Shrink Ratio (1.67:1)

HS1.6FEP3/32-NC48.000 – FEP

HS1.6FEP3/32-NC48.000 – Heat Shrink Size in inches (3/32")

HS1.6FEP3/32-NC48.000 – Natural

HS1.6FEP3/32-NC48.000 – Cut Tubing

HS1.6FEP3/32-NC48.000 – Package Quantity in feet (48')

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 400°F (204°C)
- Shrink Temperature
  - 1" Dia. and below - 410°F/210°C
  - Over 1" Dia. - 430°F/221°C
- \*Dielectric Strength:  $\geq 2,000$  V/M, per ASTM D 149 short term test of 10 MIL thickness (Volts/MIL)
- Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- Minimum quantities may apply
- Custom packaging, sizes, lengths and colors are quoted upon request

## Colors

○ Translucent

See Color Code Table

- Colors available as custom run
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC...ie HS2TFT1/8-2TC ..ie HS1.3FEP24-0CC48.000

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

For detailed ordering information, please consult price list or contact Parflex® Division.

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Hose  
A

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Fluoropolymer  
B

Coiled Air Hose  
& Fittings  
C

Transportation  
D

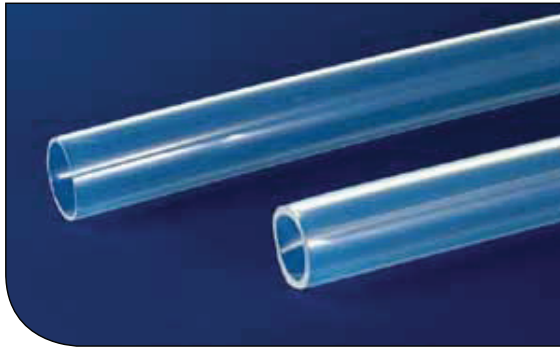
Fittings  
E

Tooling, Equipment  
& Accessories  
F

General Technical  
G

# PFA Tubing

## Series Fractional: 104 Industrial & Heavy Wall



### Features

- Virgin Perfluoroalkoxy
- Translucent
- High purity resins available
- Low permeability
- Exceptional heat resistance
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Non wetting
- Non leaching

### Certifications

- ASTM D 3307 Type II
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Air Sampling
- Gas Sampling
- Fluid Transfer
- Laboratory
- Wetbench
- Flow Monitoring
- Steam Plant

### 104 PFA Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F /23°C		Burst Pressure at 73°F /23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
104-0094031	3/32	.094	± .005	2.40	± 0.10	.031	± .002	0.79	± 0.05	.031	0.79	680	47	3400	234
104-0125031	1/8	.125	± .005	3.18	± 0.10	.064	± .004	1.63	± 0.10	.031	0.79	500	34	2500	172
104-0156031	5/32	.157	± .005	3.99	± 0.13	.094	± .004	2.39	± 0.08	.031	0.79	390	27	1950	134
104-0188031	3/16	.188	± .005	4.78	± 0.13	.125	± .005	3.18	± 0.13	.031	0.79	320	22	1600	110
104-0250031	1/4	.250	± .005	6.35	± 0.13	.188	± .005	4.78	± 0.13	.031	0.79	230	16	1150	79
104-0312031	5/16	.312	± .005	7.92	± 0.13	.250	± .005	6.35	± 0.13	.031	0.79	180	12	900	62
104-0375031	3/8	.375	± .005	9.52	± 0.13	.312	± .005	7.92	± 0.13	.031	0.79	140	10	700	48
104-0438031	7/16	.438	± .005	11.13	± 0.13	.375	± .005	9.53	± 0.13	.031	0.79	120	8	600	41
104-0500031	1/2	.500	± .005	12.70	± 0.13	.438	± .005	11.13	± 0.13	.031	0.79	100	7	500	34
104-0563031	9/16	.563	± .006	14.30	± 0.15	.500	± .006	0.79	± 0.15	.031	0.79	80	6	400	28

## Order Information

**Example: 104-0188062-NT-100**

104-0188062-NT-100 – **PFA**

104-**0188062**-NT-100 – **Tube O.D.** in inches (**3/16"**)

104-0188**062**-NT-100 – **Tube Wall Thickness** in inches (**.062"**)

104-0188062-**NT**-100 – **Natural**

104-0188062-**NT**-100 – **Bulk Tubing**

104-0188062-NT-**100** – **Package Quantity** in feet (**100'**)

## Fittings

- Fittings available for sizes 3/32" up to 1"

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align\*
- Fast & Tite
- TrueSeal™






## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

- Translucent

## 104 PFA Heavy Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F /23°C		Burst Pressure at 73°F /23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
104-0188062	3/16	.188	± .005	4.78	± 0.13	.062	± .005	1.57	± 0.13	.062	1.57	680	47	3400	234
104-0250040	1/4	.250	± .005	6.35	± 0.13	.170	± .005	4.32	± 0.13	.040	1.02	300	21	1500	103
104-0250047	1/4	.250	± .005	6.35	± 0.13	.156	± .005	3.96	± 0.13	.047	1.19	370	26	1850	128
104-0250062	1/4	.250	± .005	6.35	± 0.13	.125	± .005	3.18	± 0.13	.062	1.57	500	34	2500	172
104-0312062	5/16	.312	± .005	7.92	± 0.13	.188	± .005	4.78	± 0.13	.062	1.57	390	27	1950	134
104-0375062	3/8	.375	± .005	9.52	± 0.13	.250	± .005	6.35	± 0.13	.062	1.57	320	22	1600	110
104-0438062	7/16	.438	± .005	11.13	± 0.13	.312	± .005	7.92	± 0.13	.062	1.57	270	19	1350	93
104-0500062	1/2	.500	± .005	12.70	± 0.13	.375	± .005	9.53	± 0.13	.062	1.57	230	16	1150	79
104-0750062	3/4	.750	± .006	19.05	± 0.15	.625	± .006	15.88	± 0.15	.062	1.57	140	10	700	48
104-1000062	1	1.000	± .010	25.40	± 0.25	.875	± .010	22.22	± 0.25	.062	1.57	100	7	500	34

For detailed ordering information, please consult price list or contact Parflex® Division.

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A  
Hose

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Tooling, Equipment  
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General Technical

# PFA Tubing

## Series Metric: 204



### Features

- Virgin Perfluoroalkoxy
- Translucent
- High purity resins available
- Low permeability
- Exceptional heat resistance
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Non wetting
- Non leaching

### Certifications

- ASTM D 3307 Type II
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Air Sampling
- Gas Sampling
- Fluid Transfer
- Laboratory
- Wetbench
- Flow Monitoring
- Steam Plant

### 204 Metric PFA Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		mm	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	inch	psi	bar	psi
#															
204-0400100	4	4	± 0.11	.157	± .004	2	± 0.11	.079	± .004	1	.039	34	500	172	2500
204-0600100	6	6	± 0.11	.236	± .004	4	± 0.11	.157	± .004	1	.039	22	320	110	1600
204-0800100	8	8	± 0.11	.315	± .004	6	± 0.11	.236	± .004	1	.039	16	230	79	1150
204-1000100	10	10	± 0.11	.393	± .004	8	± 0.11	.315	± .004	1	.039	12	180	62	900
204-1200100	12	12	± 0.15	.472	± .006	10	± 0.15	.393	± .006	1	.039	10	140	48	700





## Order Information

### Example: 204-0400100-NT-100

204-0400100-NT-100 – **Metric PFA**

204-**0400**100-NT-100 – **Tube O.D.** in millimeters (**4 mm**)

204-0400**100**-NT-100 – **Tube Wall Thickness** in millimeters (**1 mm**)

204-0400100-**NT**-100 – **Natural**

204-0400100-**NT**-100 – **Bulk Tubing**

2040400100-NT-**100** – **Package Quantity** in feet (**100'**)

## Fittings

- Fittings available for sizes 4mm up to 12mm

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

- Translucent

*For detailed ordering information, please consult price list or contact Parflex® Division.*

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Hose  
A

Tubing  
Fluoropolymer  
B

Coiled Air Hose  
& Fittings  
C

Transportation  
D

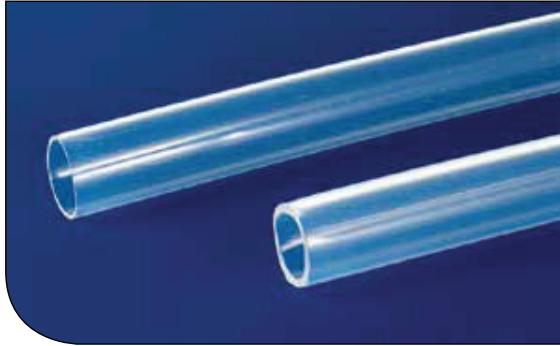
Fittings  
E

Tooling, Equipment  
& Accessories  
F

General Technical  
G

# High Purity PFA Tubing

## Series Fractional: 105 Industrial & Heavy Wall



### Features

- Virgin Perfluoroalkoxy
- Translucent
- Lowest levels of extractables
- No process contamination
- Higher flow
- Low permeability
- Longer product life and less downtime
- Exceptional heat resistance
- Chemically inert
- Self extinguishing
- Non wetting

### Certifications

- ASTM D 3307 Type II
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Flow Monitoring
- Gas Sampling
- Fluid Transfer
- Wetbench
- DI Water Dispensers
- DI Recirculators
- Heat Exchangers
- Pure Chemical Dispensers
- Laboratory

### 105 High Purity PFA Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F /23°C		Burst Pressure at 73°F /23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
105-0125031	1/8	.125	± .005	3.18	± 0.10	.064	± .004	1.63	± 0.10	.031	0.79	500	34	2500	172
105-0188031	3/16	.188	± .005	4.76	± 0.13	.125	± .005	3.18	± 0.13	.031	0.79	320	22	1600	110
105-0250031	1/4	.250	± .005	6.35	± 0.13	.188	± .005	4.76	± 0.13	.031	0.79	230	16	1150	79
105-0375031	3/8	.375	± .005	9.52	± 0.13	.312	± .005	7.92	± 0.13	.031	0.79	140	10	700	48

## Order Information

### Example: 105-0188062-NT-25

105-0188062-NT-25 – High Purity PFA

105-0188062-NT-25 – Tube O.D. in inches (3/16")

105-0188062-NT-25 – Tube Wall Thickness in inches (.062")

105-0188062-NT-25 – Natural

105-0188062-NT-25 – Bulk Tubing

105-0188062-NT-25 – Package Quantity in feet (25')

## Fittings

- Fittings available for sizes 3/32" up to 1"

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align\*
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

- Translucent

### 105 High Purity PFA Heavy Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F /23°C		Burst Pressure at 73°F /23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
105-0250047	1/4	.250	± .005	6.35	± 0.13	.156	± .005	3.96	± 0.13	.047	1.19	360	25	1800	124
105-0250062	1/4	.250	± .005	6.35	± 0.13	.125	± .005	3.18	± 0.13	.062	1.57	500	34	2500	172
105-0375062	3/8	.375	± .005	9.52	± 0.13	.250	± .005	6.35	± 0.13	.062	1.57	320	22	1600	110
105-0500062	1/2	.500	± .005	12.70	± 0.13	.375	± .005	9.53	± 0.13	.062	1.57	230	16	1150	79
105-0750062	3/4	.750	± .006	19.05	± 0.15	.625	± .006	15.88	± 0.15	.062	1.57	140	10	700	48
105-1000062	1	1.000	± .010	25.40	± 0.25	.875	± .010	22.22	± 0.25	.062	1.57	100	7	500	34

For detailed ordering information, please consult price list or contact Parflex® Division.

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A  
Hose

B  
Tubing  
Fluoropolymer

C  
Coiled Air Hose  
& Fittings

D  
Transportation

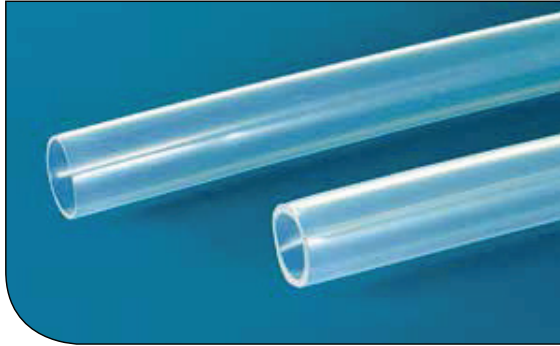
E  
Fittings

F  
Tooling, Equipment  
& Accessories

G  
General Technical

# High Purity PFA Tubing

## Series Metric: 205



### Features

- Virgin Perfluoroalkoxy
- Translucent
- Lowest levels of extractables
- No process contamination
- Higher flow
- Low permeability
- Longer product life and less downtime
- Exceptional heat resistance
- Chemically inert
- Self extinguishing
- Non wetting

### Certifications

- ASTM D 3307 Type II
- FDA Compliant
- USP Class VI Compliant

### Applications/Markets



- Flow Monitoring
- Gas Sampling
- Fluid Transfer
- Wetbench
- DI Water Dispensers
- DI Recirculators
- Heat Exchangers
- Pure Chemical Dispensers
- Laboratory

### 205 Metric High Purity PFA Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		mm	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	inch	bar	psi	bar
#															
205-0300100	3	3	± 0.11	0.118	± .004	1	± 0.11	0.039	± .004	1	.039	47	680	234	3400
205-0400100	4	4	± 0.11	0.157	± .004	2	± 0.11	0.078	± .004	1	.039	34	500	172	2500
205-0600100	6	6	± 0.11	0.236	± .004	4	± 0.11	0.157	± .004	1	.039	22	320	110	1600
205-0800100	8	8	± 0.11	0.315	± .004	6	± 0.11	0.236	± .004	1	.039	16	230	79	1150
205-0900100	9	9	± 0.13	0.354	± .005	7	± 0.13	0.276	± .005	1	.039	14	200	69	1000
205-1000100	10	10	± 0.13	0.393	± .005	8	± 0.13	0.315	± .005	1	.039	12	180	62	900

## Order Information

### Example: 205-0400100-NT-100

205-0400100-NT-100 – **Metric PFA**

205-**0400**100-NT-100 – **Tube O.D.** in millimeters (**4 mm**)

205-0400**100**-NT-100 – **Tube Wall Thickness** in millimeters (**1 mm**)

205-0400100-**NT**-100 – **Natural**

205-0400100-**NT**-100 – **Bulk Tubing**

2050400100-NT-**100** – **Package Quantity** in feet (**100'**)

## Fittings

- Fittings available for sizes 4mm up to 12mm

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Compression
- Compress-Align®
- Fast & Tite
- TrueSeal™

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: 500°F (260°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request
- Package quantities are not continuous

## Colors

- Translucent

*For detailed ordering information, please consult price list or contact Parflex® Division.*

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A

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Coiled Air Hose  
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Tooling, Equipment  
& Accessories  
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# PVDF Tubing Polyvinylidene Fluoride

## Series PVDF Flex: 110



### Features

- Low extractable levels
- High mechanical strength
- Good chemical resistance
- High abrasion resistance
- Exceptional thermal stability
- Low permeability
- Self extinguishing
- Weather resistant

### Certifications

- ASTM D 3222
- FDA Compliant

### Applications/Markets



- Applications with long cycle life
- Gas
- Food
- Thermal cycling
- Outdoor/extreme conditions
- Water systems
- Ground water monitoring
- Fluid and handling

### 110 PVDF Flex™ Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
110-0125031	1/8	.125	± .005	3.18	± 0.13	.062	± .005	1.57	± 0.13	.031	0.79	950	65	4750	327
110-0188031	3/16	.188	± .005	4.78	± 0.13	.125	± .005	3.18	± 0.13	.031	0.79	600	41	3000	207
110-0250031	1/4	.250	± .005	6.35	± 0.13	.188	± .005	4.78	± 0.13	.031	0.79	430	30	2150	148
110-0375031	3/8	.375	± .005	9.52	± 0.13	.312	± .005	7.92	± 0.13	.031	0.79	280	19	1400	97
110-0500031	1/2	.500	± .005	12.70	± 0.13	.438	± .005	11.13	± 0.13	.031	0.79	200	14	1000	69

## Order Information

### Example: 110-0312062-NT-100

- 110-0312062-NT-100 – **PVDF Flex**
- 110-0312062-NT-100 – **Tube O.D.** in inches (5/16")
- 110-0312062-NT-100 – **Tube Wall Thickness** in inches (.062")
- 110-0312062-NT-100 – **Natural**
- 110-0312062-NT-100 – **Bulk Tubing**
- 110-0312062-NT-100 – **Package Quantity** in feet (100')

## Fittings

- Fittings available for sizes 3/32" up to 1"
- Parker Fittings available from:  
 Fluid System Connectors Division  
 Otsego, MI  
 (269) 692-6555  
 (269) 694-4614 FAX

### FSC Product Families:

- Compression
- Compress-Align®

## Notes

- Available from TexLoc Business Unit, Ft. Worth, Texas (817) 625-5081 or email [texloc@parker.com](mailto:texloc@parker.com)
- Working Temperature: -80°F (-62°C) - 265°F (130°C)
- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
- Custom packaging and sizes are quoted upon request

## Colors

- Off-white

### 110 PVDF Flex™ Heavy Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F /23°C		Burst Pressure at 73°F /23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
110-0250047	1/4	.250	± .005	6.35	± 0.13	.156	± .005	3.96	± 0.13	.047	1.19	650	45	3250	224
110-0250062	1/4	.250	± .005	6.35	± 0.13	.125	± .005	3.18	± 0.13	.062	1.57	940	65	4700	324
110-0312062	5/16	.312	± .005	7.92	± 0.13	.188	± .005	4.78	± 0.13	.062	1.57	740	51	3700	255
110-0375062	3/8	.375	± .005	9.52	± 0.13	.250	± .005	6.35	± 0.13	.062	1.57	600	41	3000	207
110-0500062	1/2	.500	± .005	12.70	± 0.13	.370	± .005	9.40	± 0.13	.062	1.57	440	30	2200	152
110-0625062	5/8	.625	± .005	15.88	± 0.13	.500	± .005	12.70	± 0.13	.062	1.57	340	23	1700	117
110-0750062	3/4	.750	± .006	19.05	± 0.15	.625	± .006	15.88	± 0.15	.062	1.57	280	19	1400	97
110-1000062	1	1.000	± .010	25.40	± 0.25	.875	± .008	22.22	± 0.25	.062	1.57	200	14	1000	69

For detailed ordering information, please consult price list or contact Parflex® Division.



# PVDF Tubing Polyvinylidene Fluoride

## Series PVDF Super-Flex®: 111



### Features

- Low extractable levels
- High mechanical strength
- Good chemical resistance
- High abrasion resistance
- Exceptional thermal stability
- Low permeability
- Self extinguishing
- Weather resistant

### Certifications

- ASTM D 3222
- FDA Compliant

### Applications/Markets



- Applications with long cycle life
- Gas
- Food
- Thermal cycling
- Outdoor/extreme conditions
- Water systems
- Ground water monitoring
- Fluid and handling

### 111 PVDF Super-Flex® Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		inch	inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi
#															
111-0188031	3/16	.188	± .005	4.78	± 0.13	.125	± .005	3.18	± 0.13	.031	0.79	600	41	3000	207
111-0250031	1/4	.250	± .005	6.35	± 0.13	.188	± .005	4.78	± 0.13	.031	0.79	440	30	2200	152
111-0375031	3/8	.375	± .005	9.53	± 0.13	.312	± .005	7.92	± 0.13	.031	0.79	280	19	1400	97





## Order Information

**Example: 111-0375031-NT-200**

111-0375031-NT-200 – **PVDF Super-Flex®**

111-**0375**031-NT-200 – **Tube O.D.** in inches (**3/8"**)

111-0375**031**-NT-200 – **Tube Wall Thickness** in inches (**.031"**)

111-0375031-**NT**-200 – **Natural**

111-0375031-**NT**-200 – **Bulk Tubing**

111-0375031-NT-**200** – **Package Quantity** in feet (**200'**)

## Fittings

- Fittings available for sizes 3/32" up to 1"

Parker Fittings available from:  
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- Working pressure calculated using a Design Factor of 5; Other manufacturers may use a Design Factor of 4
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## Colors

- Off-white

## 111 PVDF Super-Flex® Industrial Wall Fractional Size Tubing

Part Number	Order Size	Nominal O.D.				Nominal I.D.				Reference Wall		Working Pressure at 73°F / 23°C		Burst Pressure at 73°F / 23°C	
		inch	Tolerance	mm	Tolerance	inch	Tolerance	mm	Tolerance	inch	mm	psi	bar	psi	bar
#															
111-0250062	1/4	.250	± .005	6.35	± 0.13	.125	± .005	3.18	± 0.13	.062	1.57	950	65	4750	327
111-0375062	3/8	.375	± .005	9.52	± 0.13	.250	± .005	6.35	± 0.13	.062	1.57	600	41	3000	207
111-0500062	1/2	.500	± .005	12.7	± 0.13	.375	± .005	9.52	± 0.13	.062	1.57	440	30	2200	152

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | [parker.com/pfd](http://parker.com/pfd)



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Hose  
A

Tubing  
Fluoropolymer  
B

Coiled Air Hose  
& Fittings  
C

Transportation  
D

Fittings  
E

Tooling, Equipment  
& Accessories  
F

General Technical  
G