

# PTFE Tubing

## Series AWG TFH, TFS, TFT, TFL

Best chemical and corrosion resistance available.



### Features

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

### Notes

- Working Temperature: °F (-73°C) to 500°F (260°C)
- AWG Spaghetti tubing is supplied in 1,000 foot spools
- AWG - \*Add -UL suffix to part number for UL VW-1 rated product (ie. TFS12-2TC-UL)
- Custom packaging, sizes and lengths are quoted upon request

### Fittings

Parker Fittings available from:  
Fluid System Connectors Division  
Otsego, MI

[269] 692-6555  
[269] 692-6634 FAX  
parker.com/fsc

For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

### Compliance

- AMS 3653
- 21 CFR 177.1550 Compliant
- USP Class VI Compliant
- Light Wall (TFL) – ASTM D3295 Class 1, UL-224 150V 200°C
- Thin Wall (TFT) – ASTM D3295 Class 2, AMS 3655, UL-224 300V 200°C, CSA 9032-01 300V
- Standard Wall (TFS) –UL-224 600V 200°C, CSA 9032-01 600V
- Heavy Wall (TFH) – ASTM D3295, Class 4

### Order Information

**Example: TFH13-2TC**

TFH13-2TC – PTFE

TFH13-2TC – Tube Wall Thickness H = Heavy

TFH13-2TC – Tube Size - AWG 13

TFH13-2TC – Red

TFH13-2TC – Bulk Tubing

TFH13-2TC – Solid Color Tube



### WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# PTFE AWG Tubing

## Series TFH

### Series TFH - PTFE AWG Heavy Wall Tubing

Part Number	Order Size AWG	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Weight		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr	
TFH24	24	0.022	0.56	0.020	0.51	0.026	0.66	0.016	0.41	0.0018	0.0027	1,000 ft. spool
TFH23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.016	0.41	0.0020	0.0030	1,000 ft. spool
TFH22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.016	0.41	0.0021	0.0031	1,000 ft. spool
TFH21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.016	0.41	0.0022	0.0033	1,000 ft. spool
TFH20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.018	0.46	0.0027	0.0040	1,000 ft. spool
TFH19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.020	0.51	0.0034	0.0051	1,000 ft. spool
TFH18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.020	0.51	0.0036	0.0054	1,000 ft. spool
TFH17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.020	0.51	0.0040	0.0060	1,000 ft. spool
TFH16	16	0.053	1.35	0.051	1.3	0.061	1.55	0.020	0.51	0.0043	0.0064	1,000 ft. spool
TFH15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.020	0.51	0.0046	0.0068	1,000 ft. spool
TFH14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.020	0.51	0.0050	0.0074	500 ft. spool
TFH13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.020	0.51	0.0056	0.0083	500 ft. spool
TFH12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.020	0.51	0.0061	0.0091	500 ft. spool
TFH11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.020	0.51	0.0067	0.0100	500 ft. spool
TFH10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.025	0.64	0.0096	0.0143	500 ft. spool
TFH09	9	0.118	3.00	0.114	2.90	0.124	3.15	0.025	0.64	0.0105	0.0156	500 ft. spool
TFH08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.030	0.76	0.0143	0.0213	random length coils
TFH07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.030	0.76	0.0156	0.0232	random length coils
TFH06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.030	0.76	0.0172	0.0256	random length coils
TFH05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.032	0.81	0.0203	0.0302	random length coils

### Colors

- Standard is natural
- Colors available as custom run

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



### WARNING

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# PTFE AWG Tubing

## Series TFS

### Series TFS - PTFE AWG Standard Wall Tubing

Part Number	Order Size AWG	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Weight		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr	
TFS30	30	0.012	0.31	0.010	0.25	0.015	0.38	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFS28	28	0.015	0.38	0.013	0.33	0.018	0.46	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFS26	26	0.018	0.46	0.016	0.41	0.022	0.56	0.009	0.23	0.0007	0.0010	1,000 ft. spool
TFS24	24	0.022	0.56	0.020	0.51	0.026	0.66	0.012	0.31	0.0012	0.0018	1,000 ft. spool
TFS23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.012	0.31	0.0013	0.0019	1,000 ft. spool
TFS22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.012	0.31	0.0014	0.0021	1,000 ft. spool
TFS21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.012	0.31	0.0015	0.0022	1,000 ft. spool
TFS20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.016	0.41	0.0023	0.0034	1,000 ft. spool
TFS19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.016	0.41	0.0025	0.0037	1,000 ft. spool
TFS18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.016	0.41	0.0270	0.0402	1,000 ft. spool
TFS17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.016	0.41	0.0030	0.0045	1,000 ft. spool
TFS16	16	0.053	1.35	0.051	1.30	0.061	1.55	0.016	0.41	0.0032	0.0048	1,000 ft. spool
TFS15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.016	0.41	0.0059	0.0088	500 ft. spool
TFS14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.016	0.41	0.0038	0.0057	500 ft. spool
TFS13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.016	0.41	0.0043	0.0064	500 ft. spool
TFS12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.016	0.41	0.0047	0.0070	500 ft. spool
TFS11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.016	0.41	0.0052	0.0077	500 ft. spool
TFS10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.016	0.41	0.0057	0.0085	500 ft. spool
TFS09	9	0.118	3.00	0.114	2.90	0.124	3.15	0.020	0.51	0.0081	0.0121	500 ft. spool
TFS08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.020	0.51	0.0090	0.0134	random length coils
TFS07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.020	0.51	0.0098	0.0146	random length coils
TFS06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.020	0.51	0.0109	0.0162	random length coils
TFS05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.020	0.51	0.0120	0.0179	random length coils
TFS04	4	0.208	5.28	0.204	5.18	0.224	5.69	0.020	0.51	0.0133	0.0198	random length coils
TFS03	3	0.234	5.94	0.229	5.82	0.249	6.32	0.020	0.51	0.0149	0.0222	random length coils
TFS02	2	0.263	6.68	0.258	6.55	0.278	7.06	0.020	0.51	0.0166	0.0247	random length coils
TFS01	1	0.294	7.47	0.289	7.34	0.311	7.90	0.020	0.51	0.0184	0.0274	random length coils
TFS00	0	0.330	8.38	0.325	8.25	0.347	8.81	0.020	0.51	0.0205	0.0305	random length coils

### Colors

- Standard is natural
- Colors available as custom run

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



### WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# PTFE AWG Tubing

## Series TFT

### Series TFT - PTFE AWG Thin Wall Tubing

Part Number	Order Size AWG	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Weight		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr	
TFT32	32	0.010	0.25	0.008	0.20	0.012	0.31	0.007	0.18	0.0003	0.0004	1,000 ft. spool
TFT30	30	0.012	0.31	0.01	0.25	0.015	0.38	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFT28	28	0.015	0.38	0.013	0.33	0.018	0.46	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFT26	26	0.018	0.46	0.016	0.41	0.022	0.56	0.009	0.23	0.0007	0.0010	1,000 ft. spool
TFT24	24	0.022	0.56	0.02	0.51	0.026	0.66	0.010	0.25	0.0009	0.0013	1,000 ft. spool
TFT23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.010	0.25	0.0011	0.0016	1,000 ft. spool
TFT22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.010	0.25	0.0011	0.0016	1,000 ft. spool
TFT21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.010	0.25	0.0012	0.0018	1,000 ft. spool
TFT20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.012	0.31	0.0016	0.0024	1,000 ft. spool
TFT19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.012	0.31	0.0018	0.0027	1,000 ft. spool
TFT18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.012	0.31	0.0019	0.0028	1,000 ft. spool
TFT17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.012	0.31	0.0021	0.0031	1,000 ft. spool
TFT16	16	0.053	1.35	0.051	1.30	0.061	1.55	0.012	0.31	0.0023	0.0034	1,000 ft. spool
TFT15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.012	0.31	0.0025	0.0037	1,000 ft. spool
TFT14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.012	0.31	0.0027	0.0040	500 ft. spool
TFT13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.012	0.31	0.0031	0.0046	500 ft. spool
TFT12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.012	0.31	0.0034	0.0051	500 ft. spool
TFT11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.012	0.31	0.0038	0.0057	500 ft. spool
TFT10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.012	0.31	0.0041	0.0061	500 ft. spool
TFT09	9	0.118	3.00	0.114	2.9	0.124	3.15	0.015	0.38	0.0058	0.0086	500 ft. spool
TFT08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.015	0.38	0.0065	0.0097	random length coils
TFT07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.015	0.38	0.0072	0.0107	random length coils
TFT06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.015	0.38	0.0079	0.0118	random length coils
TFT05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.015	0.38	0.0088	0.0131	random length coils
TFT04	4	0.208	5.28	0.204	5.18	0.224	5.69	0.015	0.38	0.0098	0.0146	random length coils
TFT03	3	0.234	5.94	0.229	5.82	0.249	6.32	0.015	0.38	0.0109	0.0162	random length coils
TFT02	2	0.263	6.68	0.258	6.55	0.278	7.06	0.015	0.38	0.0122	0.0182	random length coils
TFT01	1	0.294	7.47	0.289	7.34	0.311	7.90	0.015	0.38	0.0136	0.0202	random length coils
TFT00	0	0.330	8.38	0.325	8.25	0.347	8.81	0.015	0.38	0.0151	0.0225	random length coils

### Colors

- Standard is natural
- Colors available as custom run

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



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# PTFE AWG Tubing

## Series TFL

### Series TFL - PTFE AWG Light Wall Tubing

Part Number	Order Size AWG	Nominal I.D.		Minimum I.D.		Maximum I.D.		Nominal Wall		Weight		Standard Packaging
		inch	mm	inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr	
TFL32	32	0.010	0.25	0.008	0.20	0.012	0.31	0.005	0.13	0.0002	0.0003	1,000 ft. spool
TFL30	30	0.012	0.31	0.010	0.25	0.015	0.38	0.006	0.13	0.0003	0.0004	1,000 ft. spool
TFL28	28	0.015	0.38	0.013	0.33	0.018	0.46	0.006	0.13	0.0004	0.0006	1,000 ft. spool
TFL26	26	0.018	0.46	0.016	0.41	0.022	0.56	0.006	0.13	0.0004	0.0006	1,000 ft. spool
TFL24	24	0.022	0.56	0.020	0.51	0.026	0.66	0.006	0.13	0.0005	0.0007	1,000 ft. spool
TFL23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.006	0.13	0.0006	0.0009	1,000 ft. spool
TFL22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.006	0.13	0.0006	0.0009	1,000 ft. spool
TFL21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.006	0.13	0.0007	0.0010	1,000 ft. spool
TFL20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.006	0.13	0.0007	0.0010	1,000 ft. spool
TFL19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.006	0.13	0.0008	0.0012	1,000 ft. spool
TFL18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.006	0.13	0.0008	0.0012	1,000 ft. spool
TFL17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.006	0.13	0.0009	0.0013	1,000 ft. spool
TFL16	16	0.053	1.35	0.051	1.30	0.061	1.55	0.006	0.13	0.0010	0.0015	1,000 ft. spool
TFL15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.006	0.13	0.0011	0.0016	1,000 ft. spool
TFL14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.008	0.20	0.0017	0.0025	500 ft. spool
TFL13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.008	0.20	0.0020	0.0030	500 ft. spool
TFL12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.008	0.20	0.0022	0.0033	500 ft. spool
TFL11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.008	0.20	0.0024	0.0036	500 ft. spool
TFL10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.008	0.20	0.0027	0.0040	500 ft. spool
TFL09	9	0.118	3.00	0.114	2.90	0.124	3.15	0.008	0.20	0.0030	0.0045	500 ft. spool
TFL08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.008	0.20	0.0033	0.0049	random length coils
TFL07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.008	0.20	0.0037	0.0055	random length coils
TFL06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.010	0.25	0.0052	0.0077	random length coils
TFL05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.010	0.25	0.0057	0.0085	random length coils
TFL04	4	0.208	5.28	0.204	5.18	0.224	5.69	0.010	0.25	0.0064	0.0095	random length coils
TFL03	3	0.234	5.94	0.229	5.82	0.249	6.32	0.010	0.25	0.0071	0.0106	random length coils
TFL02	2	0.263	6.68	0.258	6.55	0.278	7.06	0.010	0.25	0.0080	0.0119	random length coils
TFL01	1	0.294	7.47	0.289	7.34	0.311	7.90	0.012	0.31	0.0107	0.0159	random length coils
TFL00	0	0.330	8.38	0.325	8.25	0.347	8.81	0.012	0.31	0.0120	0.0179	random length coils

### Colors

- Standard is natural
- Colors available as custom run

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



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