



# PTFE, FEP, PFA, ETFE

## Extruded tube

### Dimensions (Inches)

AWG Size	INSIDE DIAMETER			WALL DIMENSIONS					
	Min.	Nom.	Max.	Standard Wall		Thin Wall		Lightweight Wall	
				Nom.	Tol.	Nom.	Tol.	Nom.	Tol.
*32	0.008	0.010	0.012	0.005	±.002	0.005	±.002	-	-
30	0.010	0.012	0.015	0.009	±.002	0.009	±.002	0.006	±.002
28	0.013	0.015	0.018	0.009	±.002	0.009	±.002	0.006	±.002
26	0.016	0.018	0.021	0.009	±.002	0.009	±.002	0.006	±.002
24	0.020	0.022	0.026	0.012	±.002	0.010	±.003	0.006	±.002
*23	0.023	0.026	0.029	0.012	±.002	0.010	±.003	0.006	±.002
22	0.025	0.028	0.032	0.012	±.002	0.010	±.003	0.006	±.002
*21	0.029	0.032	0.035	0.012	±.002	0.010	±.003	0.006	±.002
20	0.032	0.034	0.038	0.016	±.003	0.012	±.003	0.006	±.002
19	0.036	0.038	0.042	0.016	±.003	0.012	±.003	0.006	±.002
18	0.040	0.042	0.046	0.016	±.003	0.012	±.003	0.006	±.002
17	0.045	0.047	0.052	0.016	±.003	0.012	±.003	0.006	±.002
16	0.051	0.053	0.058	0.016	±.003	0.012	±.003	0.006	±.002
15	0.057	0.059	0.065	0.016	±.003	0.012	±.003	0.006	±.002
14	0.064	0.066	0.072	0.016	±.003	0.012	±.003	0.008	±.002
13	0.072	0.076	0.081	0.016	±.003	0.012	±.003	0.008	±.002
12	0.081	0.085	0.091	0.016	±.003	0.012	±.003	0.008	±.002
11	0.091	0.095	0.101	0.016	±.003	0.012	±.003	0.008	±.002
10	0.102	0.106	0.112	0.016	±.003	0.012	±.003	0.008	±.002
9	0.114	0.118	0.124	0.020	±.004	0.015	±.003	0.008	±.002
8	0.129	0.133	0.139	0.020	±.004	0.015	±.003	0.008	±.002
7	0.144	0.148	0.155	0.020	±.004	0.015	±.003	0.008	±.002
6	0.162	0.166	0.174	0.020	±.004	0.015	±.003	0.010	±.003
5	0.182	0.186	0.195	0.020	±.004	0.015	±.003	0.010	±.003
4	0.204	0.208	0.218	0.020	±.004	0.015	±.003	0.010	±.003
3	0.229	0.234	0.244	0.020	±.004	0.015	±.003	0.010	±.003
2	0.258	0.263	0.273	0.020	±.004	0.015	±.003	0.010	±.003
1	0.289	0.294	0.305	0.020	±.004	0.015	±.003	0.010	±.003
0	0.325	0.330	0.342	0.020	±.004	0.015	±.003	0.012	±.003



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### Metric Dimensions (mm)

AWG Size	INSIDE DIAMETER			WALL DIMENSIONS					
	Min.	Nom.	Max.	Standard Wall Nom.	Standard Wall Tol.	Thin Wall Nom.	Thin Wall Tol.	Lightweight Wall Nom.	Lightweight Wall Tol.
*32	0.20	0.25	0.30	0.13	±.05	0.13	±.05	–	–
30	0.25	0.30	0.38	0.23	±.05	0.23	±.05	0.15	±.05
28	0.33	0.38	0.46	0.23	±.05	0.23	±.05	0.15	±.05
26	0.41	0.46	0.53	0.23	±.05	0.23	±.05	0.15	±.05
24	0.51	0.56	0.66	0.30	±.05	0.25	±.08	0.15	±.05
*23	0.58	0.66	0.74	0.30	±.05	0.25	±.08	0.15	±.05
22	0.64	0.71	0.81	0.30	±.05	0.25	±.08	0.15	±.05
*21	0.74	0.81	0.89	0.30	±.05	0.25	±.08	0.15	±.05
20	0.81	0.86	0.97	0.41	±.08	0.30	±.08	0.15	±.05
19	0.91	0.97	1.07	0.41	±.08	0.30	±.08	0.15	±.05
18	1.02	1.07	1.17	0.41	±.08	0.30	±.08	0.15	±.05
17	1.14	1.19	1.32	0.41	±.08	0.30	±.08	0.15	±.05
16	1.30	1.35	1.47	0.41	±.08	0.30	±.08	0.15	±.05
15	1.45	1.50	1.65	0.41	±.08	0.30	±.08	0.15	±.05
14	1.63	1.68	1.83	0.41	±.08	0.30	±.08	0.20	±.05
13	1.83	1.93	2.06	0.41	±.08	0.30	±.08	0.20	±.05
12	2.06	2.16	2.31	0.41	±.08	0.30	±.08	0.20	±.05
11	2.31	2.41	2.57	0.41	±.08	0.30	±.08	0.20	±.05
10	2.59	2.69	2.84	0.41	±.08	0.30	±.08	0.20	±.05
9	2.90	3.00	3.15	0.51	±.10	0.38	±.08	0.20	±.05
8	3.28	3.38	3.53	0.51	±.10	0.38	±.08	0.20	±.05
7	3.66	3.76	3.94	0.51	±.10	0.38	±.08	0.20	±.05
6	4.11	4.22	4.42	0.51	±.10	0.38	±.08	0.25	±.08
5	4.62	4.72	4.95	0.51	±.10	0.38	±.08	0.25	±.08
4	5.18	5.28	5.54	0.51	±.10	0.38	±.08	0.25	±.08
3	5.82	5.94	6.20	0.51	±.10	0.38	±.08	0.25	±.08
2	6.55	6.68	6.93	0.51	±.10	0.38	±.08	0.25	±.08
1	7.34	7.47	7.75	0.51	±.10	0.38	±.08	0.25	±.08
0	8.26	8.38	8.69	0.51	±.10	0.38	±.08	0.30	±.08



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## Extruded tube

### Dimensions (Inches)

INSIDE DIAMETER				WALL DIMENSIONS					
Frac. Sizes Spec'd by ID	Min.	Nom.	Max.	Standard Wall		Thin Wall		Lightweight Wall	
				Nom.	Tol.	Nom.	Tol.	Nom.	Tol.
1/8	0.120	0.125	0.130	0.020	±.004	0.015	±.003	—	—
1/8	0.125	0.130	0.135	—	—	—	—	0.008	±.002
3/16	0.188	0.192	0.198	0.020	±.004	0.015	±.003	0.010	±.003
1/4	0.250	0.255	0.260	0.020	±.004	0.015	±.003	0.010	±.003
5/16	0.313	0.321	0.332	0.020	±.004	0.015	±.003	0.012	±.003
3/8	0.375	0.387	0.394	0.025	±.005	0.015	±.003	0.015	±.005
7/16	0.438	0.451	0.458	0.025	±.005	0.018	±.004	0.018	±.005
1/2	0.500	0.515	0.520	0.025	±.005	0.018	±.004	0.018	±.005
5/8	0.625	0.643	0.650	0.025	±.005	0.020	±.004	0.020	±.005
3/4	0.750	0.772	0.775	0.030	±.006	0.025	±.005	0.020	±.005
7/8	0.875	0.902	0.927	0.035	±.007	—	—	—	—
1	1.000	1.030	1.060	0.035	±.007	—	—	—	—
1-1/4	1.250	1.287	1.325	0.040	±.007	—	—	—	—
1-1/2	1.500	1.550	1.580	0.045	±.007	—	—	—	—

### Metric Dimensions (mm)

INSIDE DIAMETER				WALL DIMENSIONS					
Frac. Sizes Spec'd by ID	Min.	Nom.	Max.	Standard Wall		Thin Wall		Lightweight Wall	
				Nom.	Tol.	Nom.	Tol.	Nom.	Tol.
1/8	3.05	3.18	3.30	0.51	±.10	0.38	±.08	—	—
1/8	3.18	3.30	3.43	—	—	—	—	0.20	±.05
3/16	4.78	4.88	5.03	0.51	±.10	0.38	±.08	0.25	±.08
1/4	6.35	6.48	6.60	0.51	±.10	0.38	±.08	0.25	±.08
5/16	7.95	8.15	8.43	0.51	±.10	0.38	±.08	0.30	±.08
3/8	9.53	9.83	10.01	0.64	±.13	0.38	±.08	0.38	±.13
7/16	11.13	11.46	11.63	0.64	±.13	0.46	±.10	0.46	±.13
1/2	12.70	13.08	13.21	0.64	±.13	0.46	±.10	0.46	±.13
5/8	15.88	16.33	16.51	0.64	±.13	0.51	±.10	0.51	±.13
3/4	19.05	19.61	19.69	0.76	±.15	0.64	±.13	0.51	±.13
7/8	22.23	22.91	23.55	0.89	±.18	—	—	—	—
1	25.40	26.16	26.92	0.89	±.18	—	—	—	—
1-1/4	31.75	32.69	33.66	1.02	±.18	—	—	—	—
1-1/2	38.10	39.37	40.13	1.14	±.18	—	—	—	—





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## Extruded tube

### Dimensions (Inches)

INDUSTRIAL SPECIFICATION TUBING			
Frac. Sizes Spec'd by ID & OD	I.D.	O.D.	Nominal Wall
1/32	0.031 ±.004	0.063 ±.004	.015
1/16	0.063 ±.005	0.125 ±.005	.030
3/32	0.094 ±.005	0.156 ±.005	.030
1/8	0.125 ±.005	0.188 ±.005	.030
3/16	0.188 ±.005	0.250 ±.005	.030
1/4	0.250 ±.005	0.313 ±.005	.030
5/16	0.313 ±.005	0.375 ±.005	.030
3/8	0.375 ±.005	0.438 ±.005	.030
7/16	0.438 ±.005	0.500 ±.006	.030
1/2	0.500 ±.006	0.563 ±.006	.030

INDUSTRIAL SPECIFICATION TUBING			
Frac. Sizes Spec'd by ID & OD	I.D.	O.D.	Nominal Wall
9/16	0.563 ±.006	0.625 ±.006	.030
5/8	0.625 ±.006	0.688 ±.006	.030
11/16	0.688 ±.006	0.750 ±.006	.032
3/4	0.750 ±.006	0.830 ±.006	.040
7/8	0.875 ±.006	0.965 ±.006	.045
1	1.000 ±.010	1.10 ±.010	.050
1-1/8	1.125 ±.015	1.215 ±.015	.045
1-1/4	1.250 ±.015	1.340 ±.015	.045
1-1/2	1.500 ±.015	1.580 ±.015	.040

### Metric Dimensions (mm)

INDUSTRIAL SPECIFICATION TUBING			
Frac. Sizes Spec'd by ID & OD	I.D.	O.D.	Nominal Wall
1/32	0.79 ±0.10	1.60 ±0.10	.38
1/16	1.60 ±0.13	3.18 ±0.13	.76
3/32	2.39 ±0.13	3.96 ±0.13	.76
1/8	3.18 ±0.13	4.78 ±0.13	.76
3/16	4.78 ±0.13	6.35 ±0.13	.76
1/4	6.35 ±0.13	7.95 ±0.13	.76
5/16	7.95 ±0.13	9.53 ±0.13	.76
3/8	9.53 ±0.13	11.13 ±0.13	.76
7/16	11.13 ±0.13	12.70 ±0.15	.76
1/2	12.70 ±0.15	14.30 ±0.15	.76

INDUSTRIAL SPECIFICATION TUBING			
Frac. Sizes Spec'd by ID & OD	I.D.	O.D.	Nominal Wall
9/16	14.30 ±0.15	15.88 ±0.15	.76
5/8	15.88 ±0.15	17.48 ±0.15	.76
11/16	17.48 ±0.15	19.05 ±0.15	.81
3/4	19.05 ±0.15	21.08 ±0.15	1.02
7/8	22.23 ±0.15	24.51 ±0.15	1.14
1	25.40 ±0.25	27.94 ±0.25	1.27
1-1/8	28.58 ±0.38	30.86 ±0.38	1.14
1-1/4	31.75 ±0.38	34.04 ±0.38	1.14
1-1/2	38.10 ±0.38	40.13 ±0.38	1.02



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## Heavy Construction Tube

### Dimensions (Inches)

Fractional Spec'd by OD	O.D.	I.D.	Nominal Wall Thickness
1/4	0.250 ±.005	0.125 ±.005	0.063
5/16	0.313 ±.005	0.188 ±.005	0.063
3/8	0.375 ±.005	0.250 ±.005	0.063
7/16	0.438 ±.005	0.313 ±.005	0.063
1/2	0.500 ±.006	0.375 ±.006	0.063
9/16	0.563 ±.006	0.438 ±.006	0.063
5/8	0.625 ±.006	0.500 ±.006	0.063
11/16	0.688 ±.006	0.563 ±.006	0.063
3/4	0.750 ±.006	0.625 ±.006	0.063
13/16	0.813 ±.006	0.688 ±.006	0.063
7/8	0.875 ±.006	0.750 ±.006	0.063
15/16	0.938 ±.006	0.813 ±.006	0.063
1	1.000 ±.010	0.875 ±.010	0.063

### Metric Dimensions (mm)

Fractional Spec'd by OD	O.D.	I.D.	Nominal Wall Thickness
1/4	6.35 ±.13	3.18 ±.13	1.60
5/16	7.92 ±.13	4.78 ±.13	1.60
3/8	9.52 ±.13	6.35 ±.13	1.60
7/16	11.13 ±.13	7.95 ±.13	1.60
1/2	12.70 ±.15	9.52 ±.15	1.60
9/16	14.30 ±.15	11.13 ±.15	1.60
5/8	15.88 ±.15	12.70 ±.15	1.60
11/16	17.48 ±.15	14.30 ±.15	1.60
3/4	19.05 ±.15	15.88 ±.15	1.60
13/16	20.65 ±.15	17.48 ±.15	1.60
7/8	22.23 ±.15	19.05 ±.15	1.60
15/16	23.83 ±.15	20.65 ±.15	1.60
1	25.40 ±.25	22.23 ±.25	1.60



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## Heavy Wall Tube

### Dimensions (Inches)

AWG	INSIDE DIAMETER			WALL DIMENSIONS	
	ID Minimum	ID Nominal	ID Maximum	Wall Nominal	Tolerance
24	.020	.022	.026	.016	± .003
*23	.024	.027	.030	.016	± .003
22	.025	.0285	.032	.016	± .003
*21	.030	.033	.036	.016	± .003
20	.032	.036	.040	.018	± .003
19	.036	.040	.044	.020	± .004
18	.040	.0445	.049	.020	± .004
17	.045	.0495	.054	.020	± .004
16	.051	.056	.061	.020	± .004
15	.057	.062	.067	.020	± .004
14	.064	.069	.074	.020	± .004
13	.072	.077	.082	.020	± .004
12	.081	.086	.091	.020	± .004
11	.091	.096	.101	.020	± .004
10	.102	.107	.112	.025	± .005
9	.114	.119	.124	.025	± .005
8	.129	.135	.141	.030	± .005
7	.144	.151	.158	.030	± .005
6	.162	.17	.178	.030	± .005
5	.182	.19	.198	.032	± .005

\*AWG 23 & AWG 21 not covered under ASTM 3295 - Class 5.

Fractional Spec'd by ID/OD	O.D.	I.D.	Nominal Wall Thickness
5/32*	0.250 ±.005	0.156 ±.005	0.047

\* This product is specified as HW and dimensionally manufactured to ID/OD.



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## Monofilament

### Dimensions (Inches)

Ordered As Diameter	Tolerances
0.028	±.002
0.031	±.002
0.035	±.002
0.039	±.002
0.047	±.002
0.050	±.002
0.055	±.002
0.062	±.002
0.070	±.002
0.078	±.003
0.094	±.003
0.100	±.003
0.109	±.003
0.125	±.003
0.150	±.003

### Metric Dimensions (mm)

Ordered As Diameter	Tolerances
0.71	±.05
0.79	±.05
0.89	±.05
0.99	±.05
1.19	±.05
1.27	±.05
1.40	±.05
1.57	±.05
1.78	±.05
1.98	±.08
2.39	±.08
2.54	±.08
2.77	±.08
3.17	±.08
3.81	±.08

Supplied in natural unless otherwise specified.



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## Extruded Metric Tubing 0.50mm Wall Tubing

Ordering Size (ID/OD)	I.D.	Tolerance + / -	Wall Thickness
0.50/1.50	0.50	0.05	0.50 ±0.07
1.00/2.00	1.00	0.05	0.50 ±0.07
1.50/2.50	1.50	0.10	0.50 ±0.07
2.00/3.00	2.00	0.10	0.50 ±0.07
2.50/3.50	2.50	0.15	0.50 ±0.07
3.00/4.00	3.00	0.15	0.50 ±0.07
3.50/4.50	3.50	0.15	0.50 ±0.07
4.00/5.00	4.00	0.15	0.50 ±0.07
4.50/5.50	4.50	0.20	0.50 ±0.07
5.00/6.00	5.00	0.20	0.50 ±0.07
5.50/6.50	5.50	0.20	0.50 ±0.07
6.00/7.00	6.00	0.20	0.50 ±0.07
6.50/7.50	6.50	0.20	0.50 ±0.07
7.00/8.00	7.00	0.20	0.50 ±0.07
7.50/8.50	7.50	0.20	0.50 ±0.07
8.00/9.00	8.00	0.20	0.50 ±0.07
8.50/9.50	8.50	0.30	0.50 ±0.07
9.00/10.00	9.00	0.30	0.50 ±0.07
12.00/13.00	12.00	0.30	0.50 ±0.07
13.00/14.00	13.00	0.50	0.50 ±0.07

Supplied in natural unless otherwise specified.





# PTFE, FEP, PFA, ETFE

## Extruded Metric Tubing 1.00mm Wall Tubing

Ordering Size (ID/OD)	I.D.	Tolerance + / -	Wall Thickness
1.00/3.00	1.00	0.05	1.00 ±0.15
2.00/4.00	2.00	0.10	1.00 ±0.15
2.50/4.50	2.50	0.15	1.00 ±0.15
3.00/5.00	3.00	0.15	1.00 ±0.15
3.50/5.50	3.50	0.15	1.00 ±0.15
4.00/6.00	4.00	0.15	1.00 ±0.15
4.50/6.50	4.50	0.20	1.00 ±0.15
5.00/7.00	5.00	0.20	1.00 ±0.15
5.50/7.50	5.50	0.20	1.00 ±0.15
6.00/8.00	6.00	0.20	1.00 ±0.15
6.50/8.50	6.50	0.20	1.00 ±0.15
7.00/9.00	7.00	0.20	1.00 ±0.15
7.50/9.50	7.50	0.20	1.00 ±0.15
8.00/10.00	8.00	0.20	1.00 ±0.15
8.50/10.50	8.50	0.30	1.00 ±0.15
9.00/11.00	9.00	0.30	1.00 ±0.15
9.50/11.50	9.50	0.30	1.00 ±0.15
10.00/12.00	10.00	0.30	1.00 ±0.15
10.50/12.50	10.50	0.30	1.00 ±0.15
11.00/13.00	11.00	0.30	1.00 ±0.15
12.00/14.00	12.00	0.30	1.00 ±0.15
13.00/15.00	13.00	0.30	1.00 ±0.15
14.00/16.00	14.00	0.30	1.00 ±0.15
15.00/17.00	15.00	0.40	1.00 ±0.15
16.00/18.00	16.00	0.40	1.00 ±0.15
18.00/20.00	18.00	0.40	1.00 ±0.15
19.00/21.00	19.00	0.40	1.00 ±0.15
19.50/21.50	19.50	0.40	1.00 ±0.15

Ordering Size (ID/OD)	I.D.	Tolerance + / -	Wall Thickness
20.00/22.00	20.00	0.40	1.00 ±0.15
21.00/23.00	21.00	0.50	1.00 ±0.15
22.00/24.00	22.00	0.50	1.00 ±0.15
22.50/24.50	22.50	0.50	1.00 ±0.15
23.00/25.00	23.00	0.50	1.00 ±0.15
23.50/25.50	23.50	0.50	1.00 ±0.15
25.00/27.00	25.00	0.50	1.00 ±0.15
26.00/28.00	26.00	0.50	1.00 ±0.15
27.00/29.00	27.00	0.50	1.00 ±0.15
28.00/30.00	28.00	0.50	1.00 ±0.15
29.00/31.00	29.00	0.50	1.00 ±0.15
30.00/32.00	30.00	0.60	1.00 ±0.15
32.00/34.00	32.00	0.60	1.00 ±0.15
37.00/39.00	37.00	0.60	1.00 ±0.15
38.00/40.00	38.00	0.60	1.00 ±0.15
40.00/42.00	40.00	0.75	1.00 ±0.15
42.00/44.00	42.00	0.75	1.00 ±0.15
43.00/45.00	43.00	0.75	1.00 ±0.15
45.00/47.00	45.00	0.75	1.00 ±0.15
45.50/47.50	45.50	0.75	1.00 ±0.15
48.00/50.00	48.00	0.75	1.00 ±0.15
50.00/52.00	50.00	0.75	1.00 ±0.15

Supplied in natural unless otherwise specified.



# PTFE, FEP, PFA, ETFE

## Extruded Metric Tubing 1.5/2.0 Wall Tubing

### 1.50mm Wall Tubing

Ordering Size (ID/OD)	I.D.	Tolerance + / -	Wall Thickness
1.50/4.50	1.50	0.10	1.50 ±0.20
2.00/5.00	2.00	0.15	1.50 ±0.20
3.00/6.00	3.00	0.15	1.50 ±0.20
5.00/8.00	5.00	0.20	1.50 ±0.20
6.00/9.00	6.00	0.20	1.50 ±0.20
10.00/13.00	10.00	0.30	1.50 ±0.20
12.00/15.00	12.00	0.30	1.50 ±0.20
13.00/16.00	13.00	0.30	1.50 ±0.20
14.00/17.00	14.00	0.30	1.50 ±0.20
16.00/19.00	16.00	0.40	1.50 ±0.20
18.00/21.00	18.00	0.40	1.50 ±0.20
19.00/22.00	19.00	0.40	1.50 ±0.20
20.00/23.00	20.00	0.50	1.50 ±0.20
21.00/24.00	21.00	0.50	1.50 ±0.20
22.00/25.00	22.00	0.50	1.50 ±0.20
25.00/28.00	25.00	0.50	1.50 ±0.20
28.00/31.00	28.00	0.50	1.50 ±0.20
29.00/32.00	29.00	0.50	1.50 ±0.20
30.00/33.00	30.00	0.60	1.50 ±0.20
40.00/43.00	40.00	0.75	1.50 ±0.20
49.00/52.00	49.00	0.75	1.50 ±0.20

### 2.00mm Wall Tubing

Ordering Size (ID/OD)	I.D.	Tolerance + / -	Wall Thickness
2.00/6.00	2.00	0.10	2.00 ±0.20
4.00/8.00	4.00	0.15	2.00 ±0.20
6.00/10.00	6.00	0.20	2.00 ±0.20
8.00/12.00	8.00	0.20	2.00 ±0.20
10.00/14.00	10.00	0.30	2.00 ±0.20
12.00/16.00	12.00	0.30	2.00 ±0.20
14.00/18.00	14.00	0.40	2.00 ±0.20
16.00/20.00	16.00	0.40	2.00 ±0.20
20.00/24.00	20.00	0.50	2.00 ±0.20
25.00/29.00	25.00	0.50	2.00 ±0.20
28.00/32.00	28.00	0.50	2.00 ±0.20
28.50/32.50	28.50	0.50	2.00 ±0.20
32.00/36.00	32.00	0.60	2.00 ±0.20
36.00/40.00	36.00	0.60	2.00 ±0.20
40.00/44.00	40.00	0.75	2.00 ±0.20
46.00/50.00	46.00	0.75	2.00 ±0.20

Supplied in natural unless otherwise specified.