ADVANCED FLURO PVT LTD

FLUOROPOLYMER

PTFE Tubes & Fittings

PRODUCT CATALOG



PRECISION TUBING.
INDUSTRIAL CONNECTIONS.

aftubes.com

Company Highlights

Advanced Fluro Private Limited brings together manufacturing experience, a focus on quality and technical support to build lasting customer relationships.

Manufacturing since 2011

Experience in fluoropolymer tubes, hoses and components for demanding industrial applications.

ISO-certified manufacturer

Quality management is central to our manufacturing approach.

High-performance quality

A focus on quality products that meet the needs of demanding applications.

Continual improvement

A commitment to improving our products, processes and service.

Excellent value for money

An emphasis on product quality, practical solutions and customer value.

Technical advisory

Application-focused guidance on materials, dimensions, hose construction and connections.

OEM-focused approach

Attention to OEM requirements, drawings and application-specific product needs.

Customer experience focus

A customer-centred approach to communication, technical discussions and support.

A brand built on trust

We aim to earn lasting trust through product quality, technical guidance, customer care and long-term relationships.

Explore the range

Select a category to go directly to its product pages.

PTFE tube

04-12

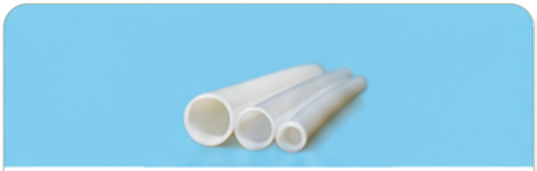
PTFE tube fittings

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Flexible PTFE Tubes Variants



Natural smoothbore PTFE tube

05-10 →



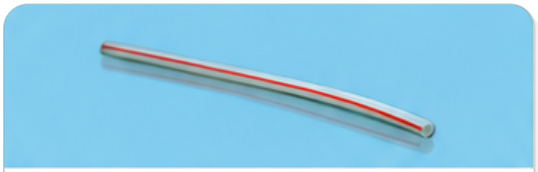
AWG PTFE Tubes

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Colored PTFE Tube

05-09 →



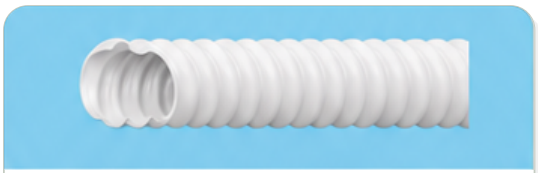
Color Striped PTFE Tube

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Conductive PTFE Tube

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PTFE Corrugated Tube

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Metric PTFE Tube Sizes

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Paste-extruded smoothbore PTFE. All dimensions and tolerance entries are in mm.

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PTFE Tube Properties

Minimum service temperature	Maximum service temperature	Minimum tensile strength	Density	Breakdown strength
-70°C	+260°C	200 kgf/cm²	2.18 g/cm³	>15 kV/mm

Ref.	ID mm	ID tol. mm	OD mm	OD tol. mm	Wall mm	Wall tol. mm	Burst ref. bar	Bend ref. mm
1	0.2	+/-0.08	1.6	+/-0.1	0.7	+/-0.05	149	10
2	0.3	+/-0.08	1.6	+/-0.1	0.65	+/-0.05	138	10
3	0.5	+/-0.08	1.5	+/-0.1	0.5	+/-0.07	113	10
4	0.5	+/-0.08	1.6	+/-0.1	0.55	+/-0.05	117	10
5	0.8	+/-0.08	1.6	+/-0.1	0.4	+/-0.05	85	10
6	0.8	+/-0.08	2.4	+/-0.1	0.79	+/-0.09	112	10
7	1	+/-0.08	1.6	+/-0.1	0.3	+/-0.03	64	10
8	1	+/-0.08	2	+/-0.1	0.5	+/-0.07	85	10
9	1	+/-0.08	3	+/-0.1	1	+/-0.1	113	10
10	1.2	+/-0.1	1.8	+/-0.1	0.3	+/-0.03	57	11
11	1.4	+/-0.1	2.2	+/-0.1	0.4	+/-0.05	62	12
12	1.5	+/-0.1	2.1	+/-0.1	0.3	+/-0.03	49	15
13	1.5	+/-0.1	2.5	+/-0.1	0.5	+/-0.08	68	13
14	1.5	+/-0.1	3	+/-0.1	0.75	+/-0.1	85	12
15	1.5	+/-0.1	3.5	+/-0.1	1	+/-0.1	97	12
16	1.5	+/-0.1	4.5	+/-0.1	1.5	+/-0.2	113	14
17	1.6	+/-0.1	2.4	+/-0.1	0.4	+/-0.05	57	14
18	1.6	+/-0.1	3.2	+/-0.1	0.8	+/-0.1	85	13
19	1.6	+/-0.1	4.8	+/-0.1	1.6	+/-0.09	113	14
20	1.7	+/-0.1	2.1	+/-0.1	0.20	+/-0.08	65	11
21	1.9	+/-0.1	2.5	+/-0.1	0.3	+/-0.03	41	21
22	2	+/-0.1	3	+/-0.1	0.5	+/-0.08	57	18
23	2	+/-0.1	4	+/-0.1	1	+/-0.1	85	16
24	2	+/-0.1	5	+/-0.1	1.5	+/-0.2	102	17
25	2	+/-0.1	6	+/-0.1	2	+/-0.2	113	18

Metric PTFE Tube Sizes

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Paste-extruded smoothbore PTFE. All dimensions and tolerance entries are in mm.

Ref.	ID mm	ID tol. mm	OD mm	OD tol. mm	Wall mm	Wall tol. mm	Burst ref. bar	Bend ref. mm
26	2.4	+/-0.1	4	+/-0.1	0.79	+/-0.1	67	20
27	2.4	+/-0.1	3.2	+/-0.1	0.4	+/-0.08	43	26
28	2.5	+/-0.1	3.5	+/-0.1	0.5	+/-0.08	49	25
29	2.5	+/-0.1	4	+/-0.1	0.75	+/-0.1	64	21
30	2.5	+/-0.1	4.5	+/-0.1	1	+/-0.1	76	20
31	3	+/-0.1	4	+/-0.1	0.5	+/-0.08	43	32
32	3	+/-0.1	5	+/-0.1	1	+/-0.1	68	25
33	3	+/-0.1	6	+/-0.1	1.5	+/-0.2	85	24
34	3.2	+/-0.1	4.8	+/-0.1	0.79	+/-0.1	56	29
35	3.2	+/-0.1	6.35	+/-0.15	1.57	+/-0.13	84	26
36	3.5	+/-0.1	4.5	+/-0.1	0.5	+/-0.08	38	41
37	3.5	+/-0.1	5.5	+/-0.1	1	+/-0.1	62	30
38	4	+/-0.1	5	+/-0.1	0.5	+/-0.08	34	50
39	4	+/-0.1	6	+/-0.1	1	+/-0.1	57	36
40	4	+/-0.1	6.35	+/-0.15	1.19	+/-0.13	64	34
41	4	+/-0.1	8	+/-0.15	2	+/-0.2	85	32
42	4.35	+/-0.1	6.35	+/-0.15	1	+/-0.1	54	40
43	4.5	+/-0.1	5.5	+/-0.1	0.5	+/-0.08	31	61
44	4.5	+/-0.1	6.5	+/-0.15	1	+/-0.1	52	42
45	4.8	+/-0.1	6.35	+/-0.15	0.79	+/-0.1	42	51
46	4.8	+/-0.1	8	+/-0.15	1.57	+/-0.14	67	41
47	5	+/-0.1	6	+/-0.1	0.5	+/-0.08	28	72
48	5	+/-0.1	7	+/-0.15	1	+/-0.1	49	49
49	5	+/-0.1	8	+/-0.15	1.5	+/-0.2	64	43
50	5.5	+/-0.1	6.5	+/-0.15	0.5	+/-0.08	26	85

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Metric PTFE Tube Sizes

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Paste-extruded smoothbore PTFE. All dimensions and tolerance entries are in mm.

Ref.	ID mm	ID tol. mm	OD mm	OD tol. mm	Wall mm	Wall tol. mm	Burst ref. bar	Bend ref. mm
51	5.5	+/-0.1	7.5	+/-0.15	1	+/-0.1	45	56
52	6	+/-0.15	7	+/-0.15	0.5	+/-0.08	24	98
53	6	+/-0.15	8	+/-0.15	1	+/-0.1	43	64
54	6	+/-0.15	9	+/-0.15	1.5	+/-0.2	57	54
55	6	+/-0.15	10	+/-0.2	2	+/-0.2	68	50
56	6.35	+/-0.15	9.5	+/-0.2	1.59	+/-0.3	57	57
57	6.4	+/-0.15	8	+/-0.15	0.80	+/-0.1	32	84
58	6.5	+/-0.15	7.5	+/-0.15	0.5	+/-0.08	23	113
59	6.5	+/-0.15	8.5	+/-0.15	1	+/-0.1	40	72
60	7	+/-0.15	8	+/-0.15	0.5	+/-0.08	21	128
61	7	+/-0.15	9	+/-0.15	1	+/-0.1	38	81
62	7.5	+/-0.15	8.5	+/-0.15	0.5	+/-0.08	20	145
63	7.5	+/-0.15	9.5	+/-0.2	1	+/-0.1	36	90
64	7.5	+/-0.15	10	+/-0.2	1.25	+/-0.1	43	80
65	8	+/-0.15	9	+/-0.15	0.5	+/-0.08	19	162
66	8	+/-0.15	9.5	+/-0.2	0.76	+/-0.1	27	119
67	8	+/-0.15	10	+/-0.2	1	+/-0.1	34	100
68	8	+/-0.15	11	+/-0.2	1.5	+/-0.1	46	81
69	8	+/-0.15	12	+/-0.2	2	+/-0.1	57	72
70	8.5	+/-0.15	9.5	+/-0.2	0.5	+/-0.08	18	181
71	8.5	+/-0.15	10.5	+/-0.2	1	+/-0.1	32	110
72	9	+/-0.15	10	+/-0.2	0.5	+/-0.08	17	200
73	9	+/-0.15	11	+/-0.2	1	+/-0.1	31	121
74	9	+/-0.15	12	+/-0.2	1.5	+/-0.25	43	96
75	9.5	+/-0.15	11.5	+/-0.2	1	+/-0.1	30	132

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Metric PTFE Tube Sizes

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Paste-extruded smoothbore PTFE. All dimensions and tolerance entries are in mm.

Ref.	ID mm	ID tol. mm	OD mm	OD tol. mm	Wall mm	Wall tol. mm	Burst ref. bar	Bend ref. mm
76	9.5	+/-0.15	12.7	+/-0.2	1.59	+/-0.1	43	101
77	9.5	+/-0.15	11	+/-0.2	0.75	+/-0.1	24	153
78	9.5	+/-0.15	12.5	+/-0.2	1.5	+/-0.3	41	104
79	10	+/-0.2	12	+/-0.2	1	+/-0.1	28	144
80	10	+/-0.2	13	+/-0.2	1.5	+/-0.2	39	113
81	10	+/-0.2	14	+/-0.2	2	+/-0.1	49	98
82	10.5	+/-0.2	12.5	+/-0.2	1	+/-0.1	27	156
83	11	+/-0.2	13	+/-0.2	1	+/-0.1	26	169
84	11.13	+/-0.2	12.7	+/-0.2	0.79	+/-0.1	21	204
85	11.13	+/-0.2	14.3	+/-0.3	1.57	+/-0.19	37	130
86	12	+/-0.2	13	+/-0.2	0.5	+/-0.08	13	338
87	12	+/-0.2	14	+/-0.2	1	+/-0.1	24	196
88	12	+/-0.2	15	+/-0.3	1.5	+/-0.2	34	150
89	12	+/-0.2	16	+/-0.3	2	+/-0.1	43	128
90	12.7	+/-0.15	14.3	+/-0.3	0.80	+/-0.1	18	269
91	12.7	+/-0.25	16	+/-0.3	1.65	+/-0.21	33	163
92	13	+/-0.5	14	+/-0.2	0.5	+/-0.08	12	392
93	13	+/-0.3	15	+/-0.3	1	+/-0.1	23	225
94	13	+/-0.3	16	+/-0.3	1.5	+/-0.2	32	171
95	14	+/-0.25	16	+/-0.3	1	+/-0.1	21	256
96	14	+/-0.3	17	+/-0.3	1.5	+/-0.2	30	193
97	14	+/-0.4	18	+/-0.3	2	+/-0.2	38	162
98	15	+/-0.4	17	+/-0.3	1	+/-0.1	20	289
99	16	+/-0.3	18	+/-0.3	1	+/-0.1	19	324
100	16	+/-0.4	19	+/-0.3	1.5	+/-0.2	27	241

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Paste-extruded smoothbore PTFE. All dimensions and tolerance entries are in mm.

Ref.	ID mm	ID tol. mm	OD mm	OD tol. mm	Wall mm	Wall tol. mm	Burst ref. bar	Bend ref. mm
101	16	+/-0.4	20	+/-0.3	2	+/-0.2	34	200
102	18	+/-0.3	20	+/-0.3	1	+/-0.1	17	400
103	18	+/-0.4	21	+/-0.3	1.5	+/-0.2	24	294
104	19	+/-0.4	21	+/-0.3	1	+/-0.1	16	441
105	19	+/-0.4	22	+/-0.3	1.5	+/-0.2	23	323
106	19.5	+/-0.4	21.5	+/-0.3	1	+/-0.15	16	462
107	20	+/-0.3	22	+/-0.3	1	+/-0.15	15	484
108	20	+/-0.4	22	+/-0.3	1	+/-0.15	15	484
109	20	+/-0.5	23	+/-0.3	1.5	+/-0.2	22	353
110	20	+/-0.5	24	+/-0.3	2	+/-0.2	28	288
111	21	+/-0.5	24	+/-0.3	1.5	+/-0.2	21	384
112	22	+/-0.5	25	+/-0.3	1.5	+/-0.2	20	417
113	25	+/-0.5	28	+/-0.3	1.5	+/-0.2	18	523

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Fractional-inch PTFE tube sizes

Reference dimensional schedule. All values are in inches.

Nominal ID × OD inch	ID inch	OD inch	Wall inch
1/32 × 1/16	0.0313	0.0625	0.0156
1/16 × 1/8	0.0625	0.1250	0.0313
3/32 × 5/32	0.0938	0.1563	0.0313
1/8 × 3/16	0.1250	0.1875	0.0313
5/32 × 7/32	0.1563	0.2188	0.0313
3/16 × 1/4	0.1875	0.2500	0.0313
1/4 × 3/8	0.2500	0.3750	0.0625
5/16 × 7/16	0.3125	0.4375	0.0625
3/8 × 1/2	0.3750	0.5000	0.0625
7/16 × 9/16	0.4375	0.5625	0.0625
1/2 × 5/8	0.5000	0.6250	0.0625
5/8 × 3/4	0.6250	0.7500	0.0625
3/4 × 7/8	0.7500	0.8750	0.0625
7/8 × 1	0.8750	1.0000	0.0625
1 × 1-1/8	1.0000	1.1250	0.0625

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PTFE Tubes - AWG Sizes

SW, TW and LW wall options. Bore dimensions and wall thicknesses are in mm.

AWG	ID min. mm	ID nom. mm	ID max. mm	SW wall mm	SW tol. mm	TW wall mm	TW tol. mm	LW wall mm	LW tol. mm
0	8.26	8.38	8.81	0.51	±0.10	0.38	±0.08	0.3	±0.08
1	7.34	7.47	7.9	0.51	±0.10	0.38	±0.08	0.25	±0.08
2	6.55	6.68	7.06	0.51	±0.10	0.38	±0.08	0.25	±0.08
3	5.82	5.94	6.32	0.51	±0.10	0.38	±0.08	0.25	±0.08
4	5.18	5.28	5.69	0.51	±0.10	0.38	±0.08	0.25	±0.08
5	4.62	4.72	5.03	0.51	±0.10	0.38	±0.08	0.25	±0.08
6	4.11	4.22	4.52	0.51	±0.10	0.38	±0.08	0.25	±0.08
7	3.66	3.76	4.01	0.51	±0.10	0.38	±0.08	0.2	±0.05
8	3.28	3.38	3.58	0.51	±0.10	0.38	±0.08	0.2	±0.05
9	2.9	3	3.15	0.51	±0.10	0.38	±0.08	0.2	±0.05
10	2.59	2.69	2.84	0.41	±0.08	0.3	±0.08	0.2	±0.05
11	2.31	2.41	2.56	0.41	±0.08	0.3	±0.08	0.2	±0.05
12	2.06	2.16	2.31	0.41	±0.08	0.3	±0.08	0.2	±0.05
13	1.83	1.93	2.08	0.41	±0.08	0.3	±0.08	0.2	±0.05
14	1.62	1.68	1.88	0.41	±0.08	0.3	±0.08	0.2	±0.05
15	1.46	1.5	1.7	0.41	±0.08	0.3	±0.08	0.2	±0.05
16	1.3	1.35	1.55	0.41	±0.08	0.3	±0.08	0.2	±0.05
17	1.14	1.19	1.37	0.41	±0.08	0.3	±0.08	0.2	±0.05
18	0.97	1.03	1.24	0.41	±0.08	0.3	±0.08	0.2	±0.05
19	0.92	0.97	1.12	0.41	±0.08	0.3	±0.08	0.2	±0.05
20	0.81	0.86	1.02	0.41	±0.08	0.3	±0.08	0.2	±0.05
21	0.74	0.81	0.91	0.3	±0.08	0.25	±0.08	0.2	±0.05
22	0.64	0.71	0.81	0.3	±0.08	0.25	±0.08	0.2	±0.05
24	0.51	0.56	0.68	0.3	±0.08	0.25	±0.08	0.2	±0.05
26	0.41	0.46	0.51	0.23	±0.05	0.23	±0.05	0.15	±0.05
28	0.33	0.38	0.43	0.23	±0.05	0.23	±0.05	0.15	±0.05
30	0.25	0.3	0.38	0.23	±0.05	0.23	±0.05	0.15	±0.05

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PTFE Corrugated Tube Sizes

Corrugated tube dimensions and reference ratings.

NB inch	Wall mm	ID mm	OD mm	WP bar	Burst bar	Bend mm
1/4"	1.05-1.1	6.0-6.2	9.5-10.0	10	28	15
3/8"	0.9-1.1	9.7-10.3	13.7-14.3	10	18	20
1/2"	0.9-1.1	12.7-13.3	17.7-18.3	4	17	45
5/8"	0.9-1.05	15.7-16.3	21.0-21.5	3	12	60
3/4"	0.9-1.0	19.2-19.6	24.0-24.5	2	8	40
7/8"	1.4-1.5	21.0-21.8	26.5-27.5	3	12	45
1"	0.9-1.0	25.4-25.6	29.0-29.5	2	7	56
1-1/8"	1.4-1.5	28.7-29.3	37.0-37.5	2	9	65
1-1/4"	1.85-2.0	31.8-32.5	41.4-42.4	3	10	55
1-1/2"	1.4-1.6	38.2-38.6	47.5-48.5	2	8	70
1-5/8"	1.85-2.0	40.0-41.0	51.0-52.0	2	8	75
1-7/8"	2.4-2.5	47.0-48.0	57.0-58.0	2	8	80
2-1/8"	1.85-2.0	53.5-54.5	64.5-65.5	2	6	75

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PTFE tube fittings

A coordinated range of straight, elbow, tee and cross connectors for fluoropolymer tubing systems.



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Straight PTFE Connectors

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Elbow PTFE Connectors

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TEE PTFE Connectors

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Cross PTFE Connectors

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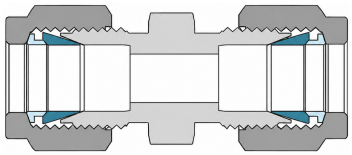
Straight PTFE Connectors

Straight connectors join tube-to-tube or tube-to-threaded-port connections.

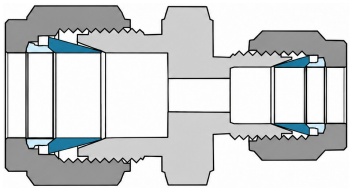
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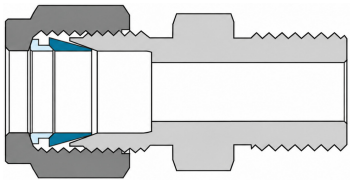
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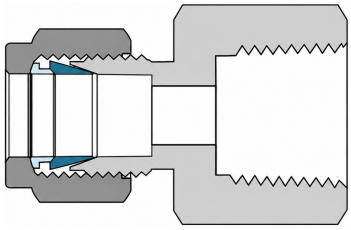
Union



Reducing union



Male connector



Female connector

Metric tube OD	4, 6, 8, 10, 12, 16, 19, 25 mm
Fractional tube OD	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1 inch
Thread standards	NPT / BSPP / BSPT / metric
Thread-size options	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1 inch

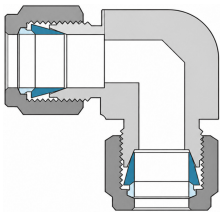
Elbow PTFE Connectors

Elbow configurations for changes in tube direction and threaded-port connections.

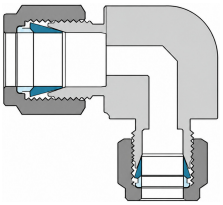
PTFE tube
04-12 →

PTFE tube fittings
13-17 →

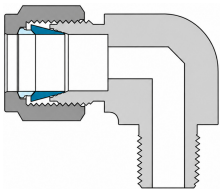
Share Requirements
20 →



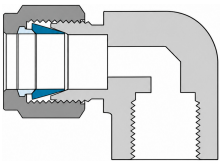
Union elbow



Reducing elbow



Male elbow



Female elbow

Metric tube OD	4, 6, 8, 10, 12, 16, 19, 25 mm
Fractional tube OD	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1 inch
Thread standards	NPT / BSPP / BSPT / metric
Application context	Chemical, laboratory and process tubing circuits

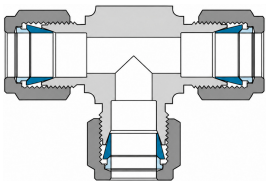
TEE PTFE Connectors

Branch and run configurations for three-way tubing connections.

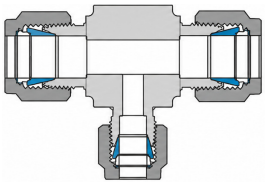
PTFE tube
04-12 →

PTFE tube fittings
13-17 →

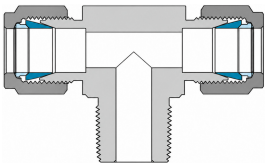
Share Requirements
20 →



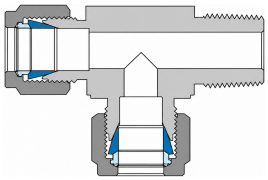
Union tee



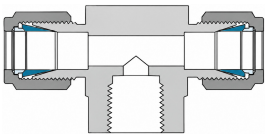
Drop union tee



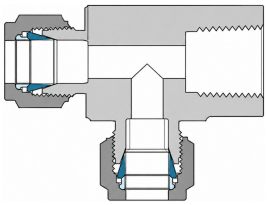
Male branch tee



Male run tee



Female branch tee

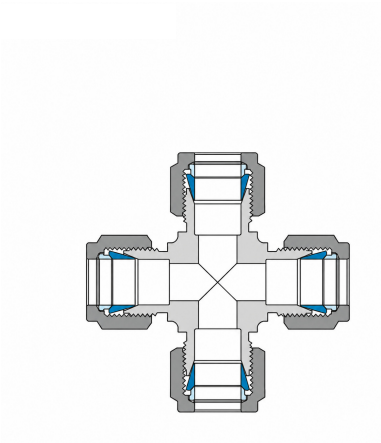


Female run tee

Metric tube OD	4, 6, 8, 10, 12, 16, 19, 25 mm
Fractional tube OD	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1 inch
Thread standards	NPT / BSPP / BSPT / metric

Cross PTFE Connectors

A four-way union configuration for tubing circuits requiring four intersecting connections.



PTFE tube
04-12 →

PTFE tube fittings
13-17 →

Share Requirements
20 →

Construction & specifications

Configuration	PTFE union cross
Metric tube OD	4, 6, 8, 10, 12, 16, 20, 25 mm
Fractional tube OD	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1 inch
Pressure / temperature	Confirm for selected size and service

Industries

Chemical & process tubing systems • Laboratory fluid circuits

Applications

Four-port connections within compatible tubing systems. Specify each port size and the operating duty.

Products across industries

Fluoropolymer products for process, manufacturing and precision applications.

Chemical & process

PTFE tube; braided and conductive PTFE hose; PFA tube

Reagent lines, solvents, chemical blending and flexible plant connections.

Pharmaceutical & laboratory

Natural PTFE, conductive PTFE, PFA and FEP tube

Process tubing, analytical instruments, sample lines and solvent recovery.

Food & beverage

PTFE tube, yarn braided hose and FEP tube

Multi-line systems and transfer applications; specify the required grade.

Automotive & marine

Braided and conductive PTFE hose; PTFE tube

Fuel and fluid lines, flexible connections and control-system applications.

Electrical & instrumentation

Natural, coloured, striped and AWG PTFE tube; FEP

Cable insulation, line identification, instrument and equipment connections.

Semiconductor & high purity

PFA tube; selected PTFE tube and hose grades

Chemical delivery and high-purity fluid systems; confirm the required documentation.

PTFE tube
04-12 →

PTFE tube fittings
13-17 →

Share Requirements
20 →

Specify your application

A complete enquiry helps our team define the material, dimensions and assembly construction for your duty.

PTFE tube
04-12 →

PTFE tube fittings
13-17 →

Share Requirements
20 →

01 Material & grade

PTFE, PFA or FEP; natural, coloured, striped or conductive; required food-contact or high-purity documentation.

02 Dimensions & quantity

Tube ID, OD, wall, tolerance requirements, cut or coil length, and quantity. For AWG tube, include the AWG number and wall option.

03 Fluid & operating conditions

Media, concentration, operating and peak pressure, vacuum if applicable, continuous and peak temperature, and cleaning conditions.

04 Hose construction & fittings

Smoothbore or convoluted core, braid, outer cover, conductive option, end A, end B, thread/flange standard, overall length and orientation.

05 Installation & documents

Movement, bend radius and available space; drawing, part reference, inspection or test documentation and delivery requirements.

ADVANCED FLURO PVT LTD

Let’s discuss your requirement

Send us your drawing, size schedule or application details.

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