

Polyurethane Flat Tubing

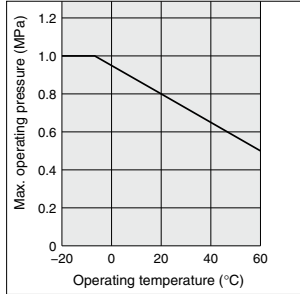
Multi-core, Multi-color Specification

TU Series



Compact piping possible
8 color variations

Max. Operating Pressure



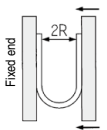
⚠ Precautions

Be sure to read this before handling the products.
Refer to page 11 for safety instructions and pages 14 to 18 for fittings and tubing precautions.

⚠ Caution

1. Please consult with SMC if using for any fluids other than air.
2. Abnormal temperature rise caused by adiabatic compression may result in the tube bursting.
3. The value of the minimum bending radius is measured at the temperature of 20°C as shown in the figure below.
4. As a result of product design characteristics, there are cases of very slight leakage.

How to measure the minimum bending radius



Bend the tube into a U shape at a temperature of 20°C. Fix one end and bend the loop gradually. Measure 2R when the tube breaks or is crushed.

Specifications

Model	TU0212	TU0425	TU0604	TU0805	TU1065	TU1208
Tubing O.D. (mm)	2	4	6	8	10	12
Tubing I.D. (mm)	1.2	2.5	4	5	6.5	8
Black (B)	●	●	●	●	●	●
White (W)	●	●	●	●	●	●
Red (R)	●	●	●	●	●	●
Blue (BU)	●	●	●	●	●	●
Yellow (Y)	●	●	●	●	●	●
Green (G)	●	●	●	●	●	●
Clear (C)	●	●	●	●	●	●
Orange (YR)		●	●	●	●	●
Number of cores <small>Note 1)</small>	2 cores	X169 (Roll)/X200 (Reel)				
	3 cores	X170 (Roll)/X201 (Reel)				
	4 cores	X171 (Roll)/X202 (Reel)				
	5 cores	X172 (Roll)/X203 (Reel)				
	6 cores	X204 (Roll)/X207 (Reel)				
Fluid	Air					
Max. operating pressure MPa	20°C	0.8				
	40°C	0.65				
	60°C	0.5				
Operating vacuum pressure (kPa) <small>Note 2)</small>	-101.3					
Applicable fittings	One-touch fitting, Insert fitting, Miniature fitting					
Min. bending radius (mm)	4	10	15	20	27	35
Operating temperature	-20 to 60°C					
Material	Polyurethane					

Note1) Refer to "How to Order" for the combination of tubing size and the number of cores.

Note2) The operating vacuum pressure varies depending on the applicable fitting, so refer to the fitting specifications for details.

How to Order

Roll

Please contact SMC for delivery.

Tube length per roll: **1, 2, 3, 4, 5, 10, 20** m

TU 0425 - 12345 A - X172

● **Tube length per roll [m]**

Symbol	Length	Symbol	Length
A	1	E	5
B	2	F	10
C	3	G	20
D	4		

● **Multi-core, multi-color specification**

Symbol	Number of cores
X169	2 cores
X170	3 cores
X171	4 cores
X172	5 cores
X204	6 cores

● **Color*1**

Symbol	Color	Symbol	Color
1	Black	5	Yellow
2	White	6	Green
3	Red	7	Clear
4	Blue	8	Orange*2

*1 Colors of the example (12345)
*2 Except TU0212

● **Tubeing size**

Symbol	O.D. x I.D.
0212	ø2 x ø1.2
0425	ø4 x ø2.5
0604	ø6 x ø4
0805	ø8 x ø5
1065	ø10 x ø6.5
1208	ø12 x ø8

● **Tubeing model**

Tube length per roll: **50** m

TU 0425 - 12345 H - X172

● **Tube length per roll [m]**

Symbol	Length
H	50

● **Multi-core, multi-color specification**

Symbol	Number of cores	Applicable tubing O.D.				
		ø4	ø6	ø8	ø10	ø12
X169	2 cores	●	●			
X170	3 cores	●	●	●		
X171	4 cores	●	●	●	●	
X172	5 cores	●	●	●	●	●
X204	6 cores	●	●	●	●	●

● **Color*1**

Symbol	Color	Symbol	Color
1	Black	5	Yellow
2	White	6	Green
3	Red	7	Clear
4	Blue	8	Orange

*1 Colors of the example (12345)

● **Tubeing size**

Symbol	O.D. x I.D.
0425	ø4 x ø2.5
0604	ø6 x ø4
0805	ø8 x ø5
1065	ø10 x ø6.5
1208	ø12 x ø8

● **Tubeing model**

Tube length per roll: **100** m

TU 0425 - 12345 J - X172

● **Tube length per roll [m]**

Symbol	Length
J	100

● **Multi-core, multi-color specification**

Symbol	Number of cores	Applicable tubing O.D.		
		ø4	ø6	ø8
X169	2 cores	●	●	
X170	3 cores	●	●	●
X171	4 cores	●	●	●
X172	5 cores	●	●	●
X204	6 cores	●	●	●

● **Color*1**

Symbol	Color	Symbol	Color
1	Black	5	Yellow
2	White	6	Green
3	Red	7	Clear
4	Blue	8	Orange

*1 Colors of the example (12345)

● **Tubeing size**

Symbol	O.D. x I.D.
0425	ø4 x ø2.5
0604	ø6 x ø4
0805	ø8 x ø5

● **Tubeing model**

How to Order

Reel

Please contact SMC for delivery.

Tube length per roll: **10, 20** m

TU 0212 - 12345 F - X203

Color^{*1}

Symbol	Color	Symbol	Color
1	Black	5	Yellow
2	White	6	Green
3	Red	7	Clear
4	Blue	8	Orange ^{*2}

^{*1} Colors of the example (12345)
^{*2} Except TU0212

Tube length per roll: 10, 20 m

Symbol	O.D. x I.D.
0212	ø2 x ø1.2
0425	ø4 x ø2.5
0604	ø6 x ø4
0805	ø8 x ø5
1065	ø10 x ø6.5
1208	ø12 x ø8

Multi-core, multi-color specification

Symbol	Number of cores	Applicable tubing O.D.				
		ø2	ø4	ø6	ø8	ø10 ø12
X200	2 cores	●	●	●	●	●
X201	3 cores	●	●	●	●	●
X202	4 cores	●	●	●	●	●
X203	5 cores	●	●	●	●	●
X207	6 cores	●	●	●	●	●

Tube length per roll [m]

Symbol	Length
F	10
G	20

Tube length per roll: **50** m

TU 0425 - 12345 H - X203

Color^{*1}

Symbol	Color	Symbol	Color
1	Black	5	Yellow
2	White	6	Green
3	Red	7	Clear
4	Blue	8	Orange

^{*1} Colors of the example (12345)

Tube length per roll: 50 m

Symbol	O.D. x I.D.
0425	ø4 x ø2.5
0604	ø6 x ø4
0805	ø8 x ø5
1065	ø10 x ø6.5

Multi-core, multi-color specification

Symbol	Number of cores	Applicable tubing O.D.			
		ø4	ø6	ø8	ø10
X200	2 cores	●	●	●	●
X201	3 cores	●	●	●	●
X202	4 cores	●	●	●	●
X203	5 cores	●	●	●	●
X207	6 cores	●	●	●	●

Tube length per roll [m]

Symbol	Length
H	50

Tube length per roll: **100** m

TU 0425 - 12345 J - X203

Color^{*1}

Symbol	Color	Symbol	Color
1	Black	5	Yellow
2	White	6	Green
3	Red	7	Clear
4	Blue	8	Orange

^{*1} Colors of the example (12345)

Tube length per roll: 100 m

Symbol	O.D. x I.D.
0425	ø4 x ø2.5
0604	ø6 x ø4
0805	ø8 x ø5

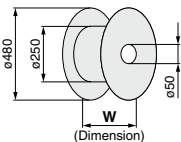
Multi-core, multi-color specification

Symbol	Number of cores	Applicable tubing O.D.		
		ø4	ø6	ø8
X200	2 cores	●	●	●
X201	3 cores	●	●	●
X202	4 cores	●	●	●
X203	5 cores	●	●	●
X207	6 cores	●	●	●

Tube length per roll [m]

Symbol	Length
J	100

Tube reel dimensions



Model	W (mm)	Tube length per roll (m)			
		10	20	50	100
X200 (2 cores)	TU0212	51	51	—	—
	TU0425	51	51	51	51
	TU0604	51	51	81	156
	TU0805	81	81	156	156
	TU1065	156	156	156	—
X201 (3 cores)	TU1208	156	156	—	—
	TU0212	51	51	—	—
	TU0425	51	51	51	51
X207 (6 cores)	TU0604	81	81	156	156
	TU0805	156	156	156	—

Model	W (mm)	Tube length per roll (m)			
		10	20	50	100
X202 (4 cores)	TU0212	51	51	—	—
	TU0425	51	51	81	81
	TU0604	81	81	156	205
	TU0805	156	156	—	—
X203 (5 cores)	TU0212	51	51	—	—
	TU0425	51	51	81	156
	TU0604	156	156	156	—
X207 (6 cores)	TU0212	51	51	—	—
	TU0425	51	51	81	156
	TU0604	156	156	156	—