

# Polyurethane Flat Tubing

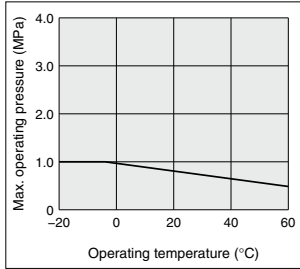
## Multi-core, Multi-color Specification

# TU Series



Compact piping possible  
8 color variations

### Max. Operating Pressure



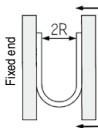
## ⚠️ Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 13 to 17 for Fittings and Tubing Precautions.

### ⚠️ Caution

- Please consult with SMC if using for any fluids other than air.
- Abnormal temperature rise caused by adiabatic compression may result in the tube bursting.
- The value of the minimum bending radius is measured at the temperature of 20°C as shown in the figure below.
- 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</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				
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					

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

- KQ2
- KQB2
- KS
- KX
- KM
- KF
- M
- H/DL
- L/LL
- KC
- KK
- KK130
- DM
- KDM
- KB
- KR
- KA
- KQG2
- KG
- KFG2
- MS
- KKA
- KP
- LQ
- MQR
- T
- IDK

## 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**

**Color<sup>\*1</sup>**

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

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

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

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

**Tube length per roll [m]**

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

**Diagram:** A roll of tubing with 5 cores. The innermost core is Yellow, followed by Blue, Red, White, and Black on the outside. The roll is shown in a curved perspective.

Tube length per roll: **50** m

**TU 0425 - 12345 H - X172**

**Color<sup>\*1</sup>**

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)

**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	•	•	•	•	•

**Tube length per roll [m]**

Symbol	Length
H	50

**Diagram:** A roll of tubing with 5 cores. The innermost core is Yellow, followed by Blue, Red, White, and Black on the outside. The roll is shown in a curved perspective.

Tube length per roll: **100** m

**TU 0425 - 12345 J - X172**

**Color<sup>\*1</sup>**

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)

**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	•	•	•

**Tube length per roll [m]**

Symbol	Length
J	100

**Diagram:** A roll of tubing with 5 cores. The innermost core is Yellow, followed by Blue, Red, White, and Black on the outside. The roll is shown in a curved perspective.

**How to Order**

**Reel**

Please contact SMC for delivery.

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

**TU 0212 - 12345 F - X203**

**Color<sup>\*1</sup>**

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

<sup>\*1</sup> Colors of the example (12345)  
<sup>\*2</sup> Except TU0212

**Color<sup>\*1</sup>**

Yellow  
Blue  
Red  
White  
Black

**Color<sup>\*1</sup>**

**Tubing 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

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

Symbol	Number of cores	Applicable tubing O.D.				
		ø2	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
F	10
G	20

Tube length per roll: **50** m

**TU 0425 - 12345 H - X203**

**Color<sup>\*1</sup>**

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

<sup>\*1</sup> Colors of the example (12345)

**Color<sup>\*1</sup>**

Yellow  
Blue  
Red  
White  
Black

**Color<sup>\*1</sup>**

**Tubing 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

**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<sup>\*1</sup>**

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

<sup>\*1</sup> Colors of the example (12345)

**Color<sup>\*1</sup>**

Yellow  
Blue  
Red  
White  
Black

**Color<sup>\*1</sup>**

**Tubing size**

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

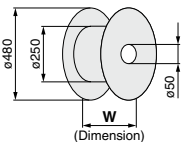
**Multi-core, multi-color specification**

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	—

KQ2
KQB2
KS
KX
KM
KF
M
H/DL
L/L
KC
KK
KK130
DM
KDM
KB
KR
KA
KQG2
KG
KFG2
MS
KKA
KP
LQ
MQR
T
IDK