

POLYURETHANE TUBING SERIES TU

- ✓ Flexible tubing
 - ✓ For general industrial air and water applications
 - ✓ 20m and 100m coils
 - ✓ 8 colour option
 - ✓ Available in metric size (TU) and inch size (TIUB)
- CONTACT SMC FOR DETAILS OF LARGER LENGTH AND INCH SIZES (SERIES TIUB).

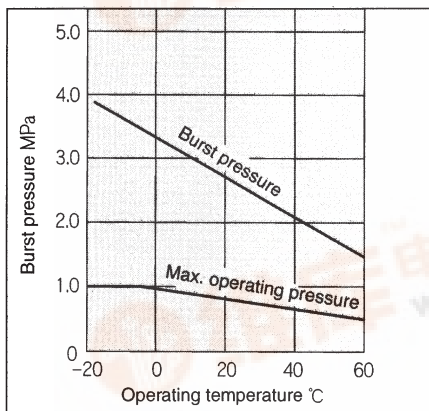


TECHNICAL SPECIFICATIONS

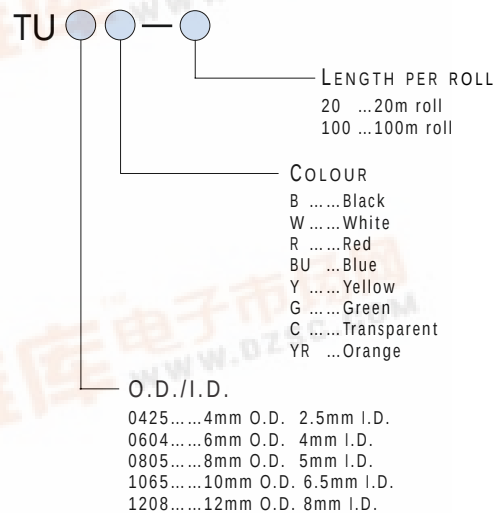
Note 1) The value for bending at a temperature of 20°C
Note 2) Safety allowance see burst pressure chart
Note 3) To calculate flow factor for longer lengths of tube
divide factor for 1 metre by $\sqrt{\text{actual length in metres}}$.

Model	TU0425-20	TU0604-20	TU0805-20	TU1065-20	TU1208-20
Tube OD (mm)	4	6	8	10	12
Tube ID (mm)	2.5	4	5	6.5	8
Max operating pressure	8 Bar ^{Note 2)} (0.8MPa)				
Coil length	20m				
^{Note 1)} Min bending radius (mm)	10	15	20	27	35
Flow factor Cv/metre	0.11	0.39	0.70	1.41	2.45
Operating temperature	-20~+60°C				
Material	Polyurethane				

BURST PRESSURE CHARACTERISTICS CURVE



How To ORDER POLYURETHANE TUBING SERIES TU



STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST



- 1) Applicable for general industry water. Consult SMC if using for other kind of fluid. Surge pressure must be under the max. operating pressure. If exceeding that value, fitting may be damaged and tubing may burst.
- 2) The values of the max. operating pressure are at a temperature of 20°C. Refer to the Burst Pressure Characteristics Curve for other temperatures. Avoid abnormal temperature rise which may burst the tubing.
- 3) The values of the min. bending radius are at a temperature of 20°C. Higher temperature allows the tubing to be bent more.

SOFT POLYURETHANE TUBING SERIES TUS

- ✓ Suitable for piping in confined space
- ✓ 20m and 100m coils
- ✓ 8 colour option

SERIES TABLE

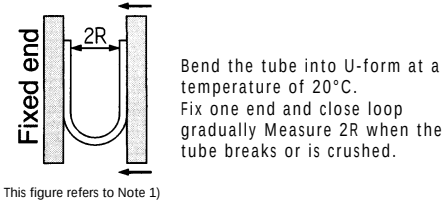
Model	TUS0425	TUS0604	TUS0805	TUS1065	TUS1208
Tube O.D. (mm)	4	6	8	10	12
Tube I.D. (mm)	2.5	4	5	6.5	8
Black (B)	■	■	■	■	■
White (W)	■	■	■	■	■
Red (R)	■	■	■	■	■
Blue (BU)	■	■	■	■	■
Yellow (Y)	■	■	■	■	■
Green (G)	■	■	■	■	■
Translucent (N)	■	■	■	■	■
Yellow Brown (YB)	■	■	■	■	■

■ 20m roll
■ 20m & 100m roll

SPECIFICATIONS

Model	TUS0425	TUS0604	TUS0805	TUS1065	TUS1208
Operating Fluid	Air				
Max Operating Pressure	0.6MPa (6.1kgf/cm ²) at 20°C				
Burst Pressure	Refer to burst pressure characteristics curve				
Applicable tube fitting	One touch fitting, insert tube fitting, hose nipple ^(Note 2)				
Min. Bending radius (mm) ^(Note 1)	8	15	15	22	29
Operating temperature	-20 to +60°C				
Material	Polyurethane				
Tube drawing strength N (Using One touch fitting)	Without inner sleeve	15	60	60	85
	With inner sleeve	80	230	250	300

Note 1) Min. bending radius is measured as shown in figure below
Note 2) Always use inner sleeve (series TJ) in safety circuit or critical area



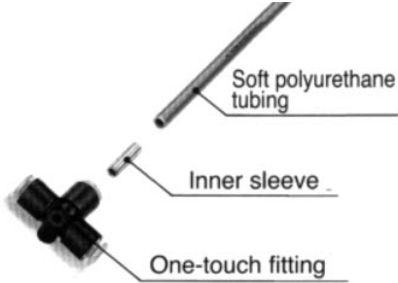
HOW TO ORDER POLYURETHANE TUBING SERIES TUS

O.D./I.D.	TUS	LENGTH PER ROLL	COLOUR
0425.....4mm O.D. 2.5mm I.D.	●	20 ...20m roll	BBlack
0604.....6mm O.D. 4mm I.D.	●	100 ...100m roll	WWhite
0805.....8mm O.D. 5mm I.D.	●		RRed
1065.....10mm O.D. 6.5mm I.D.	●		BU ...Blue
1208.....12mm O.D. 8mm I.D.	●		YYellow
			GGreen
			NTranslucent
			YB ...YellowBrown



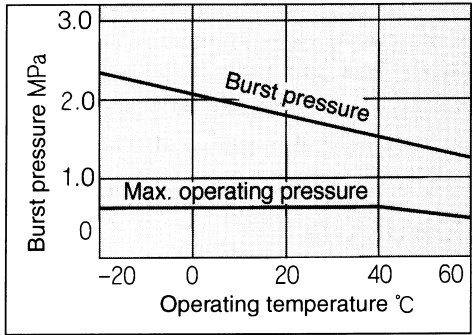
TUS RELATED ACCESSORIES INNER SLEEVE

SERIES TJ
Reinforces soft polyurethane tubing. Insert an inner sleeve into soft polyurethane tubing when used with one touch fitting.



Part No.	Applicable Tube Model	Length (mm)
TJ-0425	TUS0425	18
TJ-0604	TUS0604	19
TJ-0805	TUS0805	20.5
TJ-1065	TUS1065	23
TJ-1208	TUS1208	24

BURST PRESSURE CHARACTERISTICS CURVE



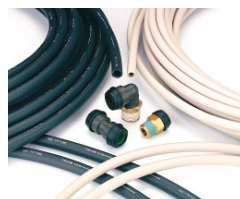
ANTI-STATIC POLYURETHANE TUBING SERIES TAU

For further information see anti-static one touch fittings Series KA



FLAME RESISTANT NYLON TUBING SERIES TRS SINGLE LAYER TUBING SERIES TRB DOUBLE LAYER TUBING

See flame resistant one touch fittings series KR/KRM page 4-75 for more information.



GENERAL PURPOSE NYLON TUBING SERIES SMC AND TS

See Section 10 for more information.



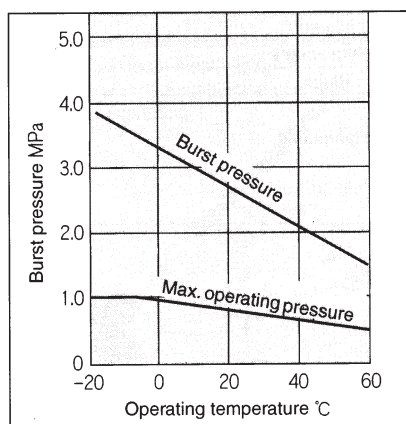
**HOW TO
ORDER**
POLYURETHANE FLAT TUBING
SERIES TFU

TFU — B —

O.D./I.D. _____
0425.....4mm O.D. 2.5mm I.D.
0604.....6mm O.D. 4mm I.D.
0805.....8mm O.D. 5mm I.D.

NUMBER OF TUBES _____
22
33

**BURST PRESSURE
CHARACTERISTICS
CURVE**



POLYURETHANE FLAT TUBING SERIES TFU

2 or 3 core flat tubing for neat presentation

**TECHNICAL
SPECIFICATIONS**

Model	TFU 0425B-2	TFU 0425B-3	TFU 0604B-2	TFU 0604B-3	TFU 0805B-2	TFU 0805B-3
Number of tubes	2	3	2	3	2	3
Tube OD (mm)	4		6		8	
Tube ID (mm)	2.5		4		5	
Flow factor Cv/metres ^(note 3)	0.11		0.39		0.70	
Max operating pressure	8 Bar at 20°C					
Operating temperature	-20to +60°C					
Material	Polyurethane					
Colour	Black					
^{Note 1)} Min bending radius (mm)	10		15		20	
Tube length per roll (m)	10					

Note 1) The value for bending at a temperature of 20°C

STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

Contact SMC for colour options, larger
lengths, number of tubes option

POLYURETHANE COIL TUBING
SERIES TCU

- ✓ Single or multi-core option
- ✓ For flexible piping applications



Fittings & Tubing

TECHNICAL
SPECIFICATIONS

Model	TCU 0425B-1	TCU 0425B-2	TCU 0425B-3	TCU 0604B-1	TCU 0604B-2	TCU 0604B-3	TCU 0805B-1
Number of tubes core	1	2	3	1	2	3	1
Tube OD (mm)	4			6			8
Tube ID (mm)	2.5			4			5
Max operating pressure	See burst pressure chart						
Operating temperature	-20~+60°C						
Material	Polyurethane						
Colour	Black						
Operating Fluid	Air Note 2						

Note 1) The value for bending at a temperature of 20°C
Note 2) Consult SMC if using other than air

HOW TO
ORDER
POLYURETHANE COIL TUBING
SERIES TCU

TCU  B  — 

O.D./I.D.

0425 . . 4mm O.D. 2.5mm I.D.
0604 . . 6mm O.D. 4mm I.D.
0805 . . 8mm O.D. 5mm I.D.

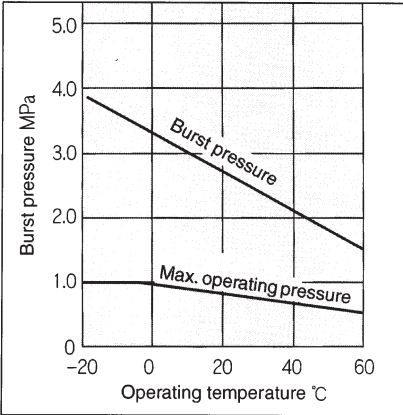
NO. OF TUBES

11
22
33

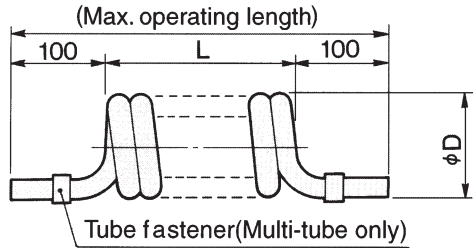
STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

Consult SMC for change of coil turns or
colour change

BURST PRESSURE
CHARACTERISTICS
CURVE



DIMENSIONS
POLYURETHANE COIL TUBING



Specifications	Tube size (mm)		Dimension of coil (mm)		Number of tube core	Number of coil winding per tube length	Max operating length (m)
Model	OD	ID	L	D			
TCU0425B-1	4	2.5	210	18	1	52	1.5
TCU0425B-2			280	28	2	35	
TCU0425B-3			265		3	22	1
TCU0604B-1	6	4	325	24	1	54	2
TCU0604B-2			305	37	2	27	1.5
TCU0604B-3					3	17	1

MULTITUBE HOLDER SERIES TM

- ✓ Arranges tubes neatly
- ✓ Accepts Ø4mm~12mm
- ✓ 6-12 tube design
- ✓ Uses flame resistant resin (V-0)



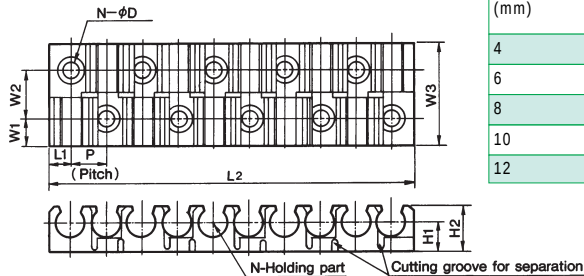
TECHNICAL SPECIFICATIONS

Tube material	Nylon, Soft nylon, Polyurethane
Tube O.D.	Ø4, Ø6, Ø8, Ø10, Ø12
Ambient (°C)	-20~60
Material	Flame resistance polypropylene (UL-94 standard V-0)
Colour	Black

HOW TO ORDER TM MULTITUBE HOLDER

TM	—	●
04	...	4mm (12 connecting tubes)
06	...	6mm (12 connecting tubes)
08	...	8mm (8 connecting tubes)
10	...	10mm (6 connecting tubes)
12	...	12mm (6 connecting tubes)

DIMENSIONS



Dimensions in mm

Applicable tube O.D. (mm)	Model	N (Number of holding parts)	P	L1	L2	W1	W2	W3	H1	H2	ØD	Mounting tapping screw size
												Nominal x Length
4	TM-04	12	6	3.25	72.5	4.5	8	17	5	7.5	2.2	M2x6
6	TM-06	12	7.5	4.5	91.5	5.5	10	21	6.5	10	2.8	M2.6x8
8	TM-08	8	9.5	5.5	77.5	6	11	23	7.5	12	2.8	M2.6x8
10	TM-10	6	12.5	7.5	77.5	6.5	12	25	8.8	14.3	3.2	M3x8
12	TM-12	6	15	9	93	6.5	12	25	9.8	16.3	3.2	M3x8

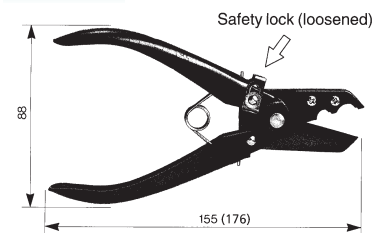
TUBE CUTTER SERIES TK

- ✓ Perpendicular cutting
- ✓ Enclosure/safety lock contained



DIMENSIONS TK1 TUBE CUTTER (TK2 TUBE CUTTER)

Dimensions in mm



TECHNICAL SPECIFICATIONS

Model	TK-1	TK-2	TK-3
Applicable tube material	Nylon, soft nylon, polyurethane, and other soft plastic tube		
Applicable tube O.D.	13mm or less	18mm or less	12mm or less

HOW TO ORDER TK TUBE CUTTER

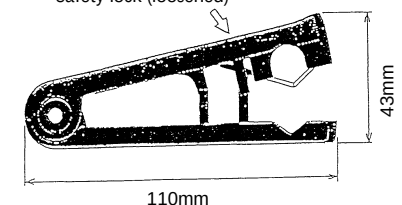
- TK — 1
- TK — 2
- TK — 3



Never cut electric wire metals

DIMENSIONS TK 3 TUBE CUTTER

Safety lock (loosened)





TUBE STAND
SERIES TB-1

- ✓ Used in conjunction with series TBR tube reels to provide practical storage and dispensing solutions
- ✓ Mounted on lockable castors
- ✓ Tube cutter tray
- ✓ Easy to load



TUBE REEL
SERIES TBR-1~4

- ✓ Specifically designed for installing 100m coils of tube in reel stand TB-1
- ✓ Easy loading of tube onto the reel
- ✓ Easy dispensing of tube



Fittings & Tubing

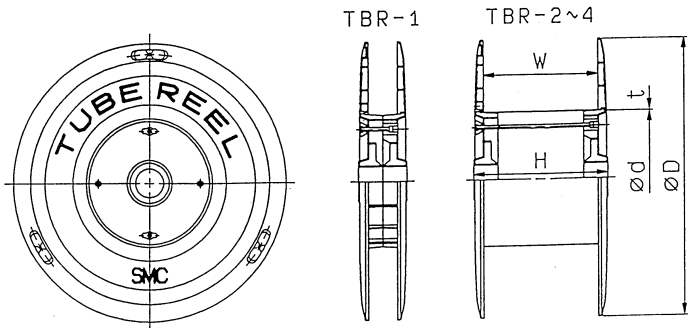
How To
ORDER

- TBR-1for Ø4mm, Ø6mm tube
- TBR-2for Ø8mm tube
- TBR-3for Ø10mm tube
- TBR-4for Ø12mm tube

SPECIFICATIONS

Side Board	Grey	Polyurethane
Side Board	Transparent	Polyurethane
Core	-	PVC
2 x hex bolt & wingnut	steel	M6(JIS std)

DIMENSIONS



	ØD	Ød	t	H	W
TBR-1	Ø480	Ø230	-	84	50
TBR-2	Ø480	Ø230	1	134	100
TBR-3	Ø480	Ø230	1	184	150
TBR-4	Ø480	Ø230	1	234	200