

Polyurethane Tube - Ether Base

Characteristics

- The ether base polyurethane tube, featuring excellent flexibility, helps compact piping requiring small bending radius.
- Tubes come in a variety of colors so that pipings can be identified by color or can be completed in the same colors as the devices.
- The useful cut marks at 500mm interval are printed on the tube.
- The long tube, as described in the table below, can be requested as build-to-order production.

■ Table of long tube

Model		Reel (m/roll)	Small bundle (m/roll)	Large bundle *2 (m/roll)
mm	inch			
UB0320	UB1/8	300	300	-
UB0425	UB5/32, UB3/16	300	300	-
UB0640	UB1/4	300	300	-
UB0850	UB5/16	200	200	500
UB1065	UB3/8	150	150	300
UB1280	UB1/2	100	100	200
UB1611	UB5/8	50	50	100

*1. The minimum ordering quantity of long tube is 500m or more.

*2. The large bundle tube roll is delivered by film wrapping on the pallet, and its freight cost will be charged separately.

ø1.8mm type

- Featuring small bending radius of 4mm, this ø1.8mm tube realizes compact piping.
- The tube comes in 10 colors.

Specifications

Model	UB01810	UB0320	UB0425	UB0640	UB0850	UB1065	UB1280	UB1611	UB1/8	UB5/32	UB3/16	UB1/4	UB5/16	UB3/8	UB1/2	UB5/8
O.D. x I.D. (mm)	1.8x1	3x2	4x2.5	6x4	8x5	10x6.5	12x8	16x11	3.18x2	4x2.5	4.76x3	6.35x4.15	8x5	9.53x6	12.7x8.5	16x11
Tube length (m)	20	20 · 50 (**)						100	20	20 · 100						20
Tube color (○ : available)																
Black (B)				○					○	○	○	○	○	○	○	○
Red (R)				○					-	○	-	-	○	-	-	○
Orange (O)				○					○	○	○	○	○	○	○	○
Ocher (YB)				○					-	○	-	-	○	-	-	○
Yellow (Y)				○					-	○	-	-	○	-	-	○
Green (G)				○					-	○	-	-	○	-	-	○
Blue (Bu)				○					-	○	-	-	○	-	-	○
Clear blue (CB)				○					-	○	-	-	○	-	-	○
Transparent (C)				○					-	○	-	-	○	-	-	○
Milk-white (W)				○					-	○	-	-	○	-	-	○
Fluid medium	Air, water (*1, *2, *3)															
Max. operating pressure	116psi (0.8MPa) (65%RH at 20°C *5)															
Max. vacuum	-29.5in. Hg (-100kPa)															
Operating temp. range	-5 ~ 140°F (-15 ~ 60°C) (no freezing)															
Min. bending Radius (JIS) (mm)	4	8	10	15	20	30	60	8	10	15	15	20	30	60	60	60
Min. Mounting Radius (VCE) (mm)	6	12	15	23	30	45	90	12	15	23	30	45	90	90	90	90

*1. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.

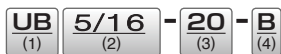
*2. Be sure to place Insert Ring into the tube edge when Polyurethane Tube is installed into the Push-In Fittings with water as a fluid medium.

*3. Tap water can be used. Consult with PISCO for using other kind of water.

*4. 50M length is available only in black color with tube dia. of metric sizes.

*5. The value of max. operating pressure at 20°C 65%RH. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve. When Tubes are frequently swung and bent, there is a possibility of generating heat between molecules, and damaging the products.

Model Designation (Example)



(1) Name of tube

(2) Tube dia. (O.D./I.D.)

Code	mm size							
	O.D.	ø1.8mm	ø3mm	ø4mm	ø6mm	ø8mm	ø10mm	ø12mm
I.D.	ø1mm	ø2mm	ø2.5mm	ø4mm	ø5mm	ø6.5mm	ø8mm	ø11mm
Code	inch size							
	O.D.	ø1/8in.	ø5/32in.	ø3/16in.	ø1/4in.	ø5/16in.	ø3/8in.	ø1/2in.
I.D.	ø0.08in.	ø0.10in.	ø0.12in.	ø0.16in.	ø0.20in.	ø0.24in.	ø0.33in.	ø0.43in.

(3) Tube length

Code	20	50	100
Length	20m 65.6ft.	50m 164ft.	100m 328ft.

* UB01810, UB1611 and UB5/8 coming in 20m only.

* The standard UB 50m comes in black only.

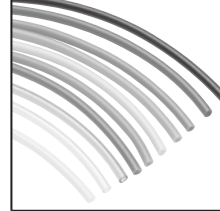
(4) Tube color

Code	B	R	O	YB	Y	G	Bu	CB	C	W
Color	Black	Red	Orange	Ocher	Yellow	Green	Blue	Clear blue	Transparent	Milk-white
mm size	○	○	○	○	○	○	○	○	○	○
inch	5/32, 5/16, 5/8	○	○	○	○	○	○	○	○	○
size	1/8, 3/16, 1/4, 3/8, 1/2	○	-	○	-	-	-	-	-	-

* The colors marked with ○ are available as standard.



UB
Polyurethane Tube



Model	
mm	inch
UB01810-20-[4]	UB ^{1/8} -[3]-[4]
UB0320-[3]-[4]	UB ^{5/32} -[3]-[4]
UB0425-[3]-[4]	UB ^{3/16} -[3]-[4]
UB0640-[3]-[4]	UB ^{1/4} -[3]-[4]
UB0850-[3]-[4]	UB ^{5/16} -[3]-[4]
UB1065-[3]-[4]	UB ^{3/8} -[3]-[4]
UB1280-[3]-[4]	UB ^{1/2} -[3]-[4]
UB1611-20-[4]	UB ^{5/8} -20-[4]



Cautions

*1. Tube can be sold at desirable length as build-to-order production. Please make inquiry about pricing to our sales offices.

*2. For [3], please select a tube length.

*3. For [4], please select a tube color.



Package specifications

20M lengths /bag: Applicable to all types

50M lengths/bag: Only black color in MM size is available

100M lengths/ box: All types except UB01810, 1611 and 5/8

Burst Pressure Curve (Reference Value)

