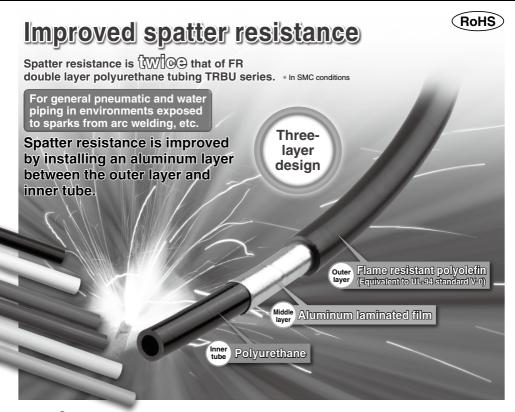
## FR Three-layer Polyurethane Tubing

## TRTU Series

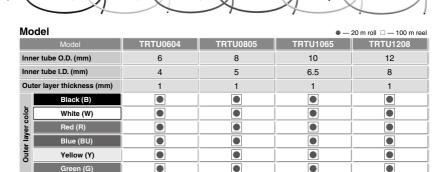
## Flame Resistant (Equivalent to UL-94 Standard V-0)



### 6-color variations

Black

White



Blue

Yellow

Green

Red

# Flame Resistant (Equivalent to UL-94 Standard V-0) FR Three-layer Polyurethane Tubing

## TRTU Series





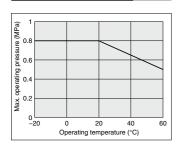
For general pneumatic and water piping in environments exposed to sparks from arc welding, etc.

## How to measure the minimum bending radius



Bend the tube into the U-form at a temperature of 20°C. Fix one end and close loop gradually. Measure 2R when the deformed ratio of the tube diameter at bending reaches 5%.

## Max. Operating Pressure



#### Model

● — 20 m roll □ — 100 m reel

Model		TRTU0604	TRTU0805	TRTU1065	TRTU1208	
Inner tube O.D. (mm)		6	8	10	12	
Inner tube I.D. (mm)		4	5	6.5	8	
Outer layer thickness (mm)		1	1	1	1	
Note 1) Outer layer color	Black (B) White (W) Red (R) Blue (BU)					
	Yellow (Y) Green (G)					

#### Specifications

Specification	ons										
Fluid Note 2)	luid Note 2)			Air, Water							
Applicable fitting				uch fittir touch fit							
Max. operating pressure (MPa)	20°C	0.8									
	40°C	0.65									
	60°C	0.5									
Operating vacuum pr	-101.3										
Min. bending rad	ius (mm) Note 4)	5	0	6	0	7	0	80			
Ambient and fluid temperature		-20 to 60°C, Water: 0 to 40°C (No freezing)									
	Inner tube		Polyurethane								
Material	Middle layer	Aluminum laminated film									
	Outer layer	Polyolefin (Equivalent to UL-94 standard V-0)									

Note 1) The color of all inner tubes is black.

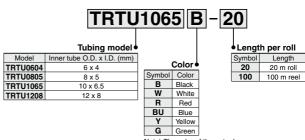
Note 2) Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. The surge pressure must be under the maximum operating pressure.

If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes. Also, abnormal temperature rise caused by adiabatic compression may result in the tube bursting.

Note 3) The operating vacuum pressure varies depending on the applicable fitting, so refer to the fitting specifications for details.

Note 4) The minimum bending radius is the representative value measured as shown in the left figure. Allow extra length when piping since the tube may be bent if used under the minimum bending radius.

#### How to Order



Note) The color of the outer layer of all tubing is opaque.

#### Installation on One-touch Fittings

Pitch length for installation on a One-touch fitting is indicated on the outer layer of the TRTU tubing.

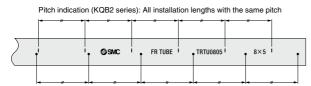
(There are two types of applicable fittings, so two types of pitch length for installation are available.)

Cut the tube according to this indication (Step 1) and strip off the outer layer (Step 2) using a special tool.

Strip off the aluminum laminated film to prevent the inner tube from being damaged (Step 3) and install it on the One-touch fitting. Refer to the Operation Manual for details of installation on the One-touch fitting.

The Operation Manual can be downloaded from the SMC URL below.

https://www.smcworld.com

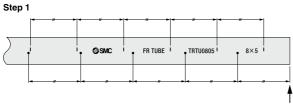


Pitch indication (KR-W2 series): All installation lengths with the same pitch

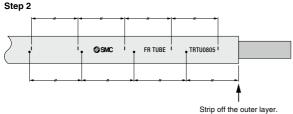
Identification of the pitch length for installation "ı": KQB2 series

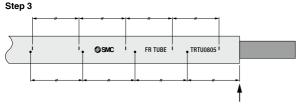
".": KR-W2 series

### Installation on the KR-W2 series



Outer layer, aluminum laminated film and inner tube are cut at the "." mark.





Strip off the aluminum laminated film to prevent the inner tube from being damaged.

#### Metal One-touch fittings KQB2 series



#### P.255

Flame resistant (equivalent to UL-94 standard V-0) FR One-touch fittings KR-W2 series



Use a special tool for stripping off the outer layer. Part no.: YS-100 \* Refer to the Operation Manual for details of how to use the special tool. Special tool