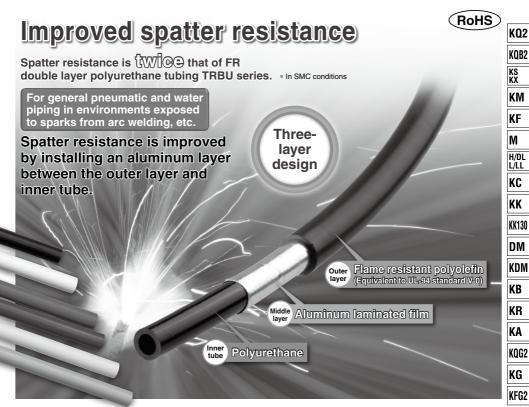
## FR Three-layer Polyurethane Tubing

## TRTU Series

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



### 6-color variations



TRTU0604	TRTU0805	TRTU1065	TRTU1208	
6	8	10	12	
4	5	6.5	8	
1	1	1	1	
	6	6 8	TRTU0604 TRTU0805 TRTU1065 6 8 10	

LO

KΡ

MS KKA

KM

KK130

KA

KOG2

MQR

IDK

# 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%.

#### Model

● — 20 m roll □ — 100 m reel

1	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 t	hickness (mm)	1	1	1	1
Note 3) Outer layer color	Black (B)		•	•	•
	White (W)	•	•	•	•
	Red (R)			•	•
	Blue (BU)			•	•
	Yellow (Y)			•	•
	Green (G)	<b>—</b>	<u> </u>		<u> </u>

#### Specifications

opecification	Ulia					
Fluid Note 1)		Air, Water				
Applicable fittings		FR One-touch fittings: KR-W2 series Metal One-touch fittings: KQB2 series				
Max. operating pressure (MPa)	20°C	0.8				
	40°C	0.65				
	60°C	0.5				
Min. bending radius (mm) Note 2)		50	60	70	80	
Ambient and fluid temperature		-20 to	-20 to +60°C, Water: 0 to 40°C (No freezing)			
Material	Inner tube	Polyurethane				
	Middle layer	Aluminum laminated film				
	Outer layer	Polyolefin (Equivalent to UL-94 standard V-0)				

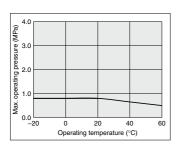
Note 1) Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. Also, the surge pressure must be under the maximum operating pressure. If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes.

Note 2) 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.

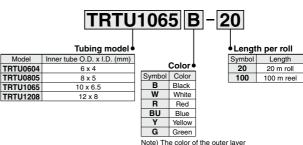
Note 3) The color of all inner tubes is black.

Note 4) Abnormal temperature rise caused by adiabatic compression may result in the tube bursting.

#### Max. Operating Pressure



#### **How to Order**



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.

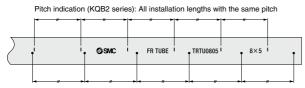
(There are two types of applicable fittings, so two types of pitch length for installation are available.)

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.

http://www.smcworld.com

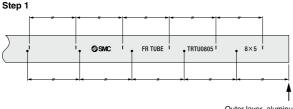


Pitch indication (KR-W2 series): All installation lengths with the same pitch

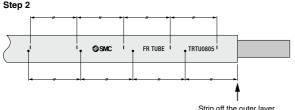
Identification of the pitch length for installation "ı": KQB2 series

" • ": KR-W2 series

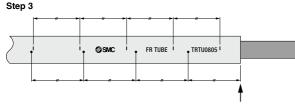
#### Installation on the KR-W2 series



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



Strip off the outer layer.



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

#### Metal One-touch fittings KQB2 series



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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.



KQ2

KQB2

KM

KF M

H/DL L/LL

KC KK

KK130

DM KDM

KB

KR KA

KOG2

KG KFG2

MS

KKA KΡ

LO MOR

IDK

