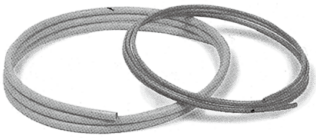
Flame Resistant (Equivalent to UL-94 Standard V-0) FR Double Layer Tubing

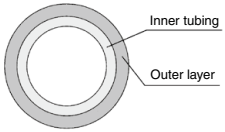
TRB Series

RoHS

Suitable for air and water piping in environments where sparks from spot welders, etc., may be a problem.

Double layer design using flame resistant resin (equivalent to UL-94 Standard V-0) for outer layer.





Sectional view of FR double layer tubing

Model

● — 20 m roll □ — 100 m reel

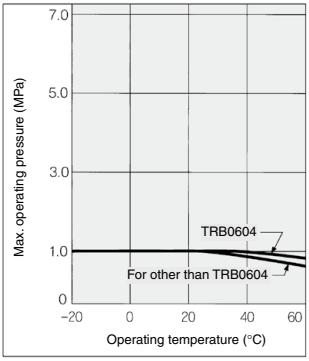
Model		TRB0604	TRB0806	TRB1075	TRB1209
Inner tubing O.D. (mm)		6	8	10	12
Inner tubing I.D. (mm)		4	6	7.5	9
Outer layer thickness (mm)		1	1	1	1
External layer color Note)	Black (B)	●	●	●	●
	White (W)	□	□	□	□
	Red (R)	□	□	□	□
	Blue (BU)	□	□	□	□
	Yellow (Y)	□	□	□	□
	Green (G)	□	□	□	□
Min. bending radius (mm)		15	28	35	45

Specifications

Fluid		Air/Water			
Max. operating pressure (MPa)	20°C	1.0	1.0	1.0	1.0
	40°C	1.0	0.8	0.8	0.8
	60°C	0.8	0.6	0.6	0.6
Recommended fittings		FR One-touch fittings: KR-W2 series			
Ambient and fluid temperature		–20 to +60°C (Water: 0 to 60°C) (No freezing)			
Material	Inner tubing	Nylon 12			
	Outer layer	PVC (Equivalent to UL-94 Standard V-0)			

Note) The color of all inner tubing is black.

Max. Operating Pressure



How to Order

TRB1075 **B** – **100**

Tubing model

Color

Symbol	Color	Symbol	Color
B	Black	**BU**	Blue
W	White	**Y**	Yellow
R	Red	**G**	Green

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

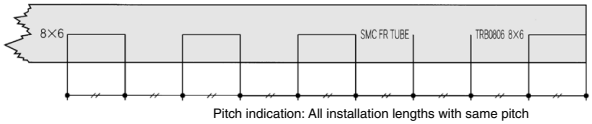
Length per roll

Symbol	Length
20	20 m roll
100	100 m reel

Installation on One-touch Fittings

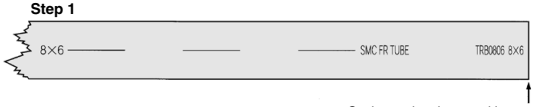
⚠Caution

Length of tubing to be inserted into One-touch fittings is indicated on the outer layer of TRB tubing. Cut the tube according to this indication, (Step 1) and then strip off the outer layer (Step 2) for installing into fittings.



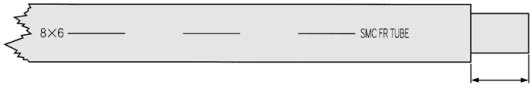
Pitch indication: All installation lengths with same pitch

Step 1



Cut internal and external layers

Step 2



Strip off external layer only

⚠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

1. Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. Also, the surge voltage 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 tubing.
2. Abnormal temperature rise caused by adiabatic compression may result in the tube bursting.