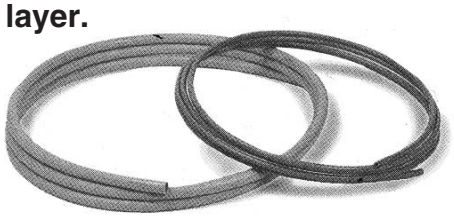
## Flame Resistant (Equivalent to UL-94 Standard V-0)

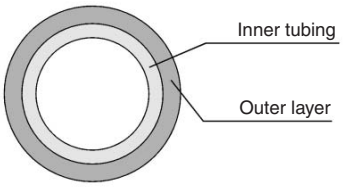
# FR Double Layer Tubing

# *Series TRB*

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

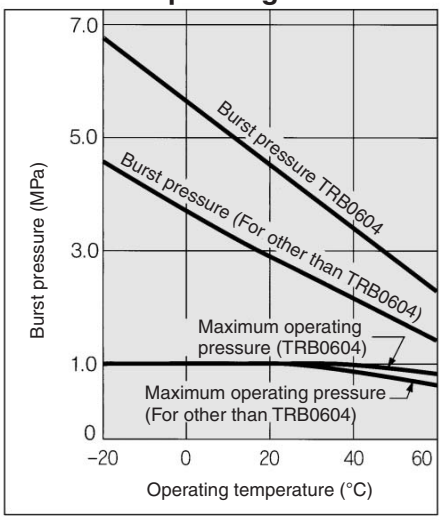
**Double layer design using flame resistant resin (equivalent to UL-94 Standard V-0) for outer layer.**






Sectional view of FR double layer tubing

### Burst Pressure Characteristics Curve and Operating Pressure




### 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 |
| Note) External layer color: 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 (at 20°C) | | 1.0 MPa |
| Burst pressure | | Refer to the burst pressure characteristics curve. |
| Ambient and fluid temperature | | −20 to +60°C (Water: 0 to 60°C) (No freezing) |
| Material | Inner tubing | Nylon 11 |
| | Outer layer | PVC (Equivalent to UL-94 Standard V-0) |

Note) The color of all inner tubing is black.

## 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 |

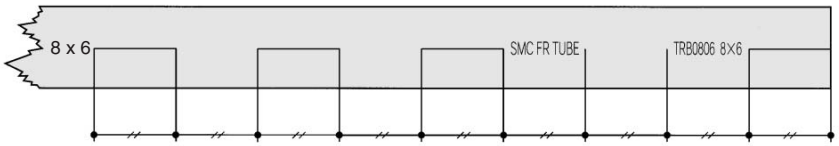
**Length per roll**

| Symbol | Length |
|---|---|
| **20** | 20 m roll |
| **100** | 100 m reel |

## Installation on One-touch Fittings

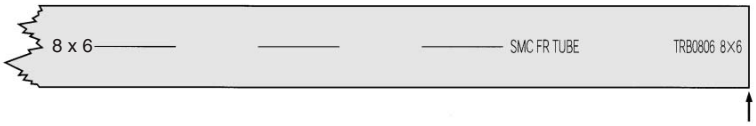
### ⚠ Caution

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.



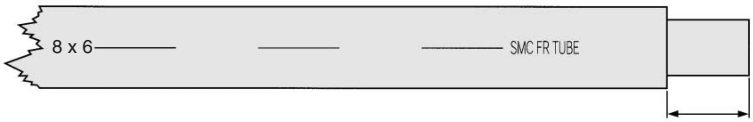

Pitch indication: All installation lengths with same pitch

**Step 1**




Cut internal and external layers

**Step 2**




Strip off external layer only

## ⚠ Precautions

**Be sure to read before handling.**
**Refer to pages 15-18-3 to 4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-1-10 to 11 for Precautions on every series.**

### ⚠ 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.** The value of the max. operating pressure is at a temperature of 20°C. Refer to the burst pressure characteristics curve for other temperatures.
Furthermore, abnormal temperature rises caused by adiabatic compression may result in the burst of the tube.