

Improved weather resistance
in outdoor environments

Tubing

T/TS/TRS/TRB Series

*1 Various tests for weather resistance have been passed, including the accelerated weathering test, combined cycle test, and ozone-proof exposure test. When using the product, refer to "Product Usage Precautions" on page 12.

Passed
1000 hours

Accelerated
weathering test
ISO 4892-3 (JIS K 7350-3) compliant

Passed
960 hours

Combined cycle test
ISO 14993 (JIS H 8502: 1999) compliant

Passed
1000 hours

Ozone-proof
exposure test
ISO 1431 (JIS K 6259) compliant



Nylon tubing



Soft nylon tubing



FR soft nylon tubing



FR double layer tubing

<Variations>

Series **4 models**

Nylon, Soft nylon, FR soft nylon,
FR double layer

Tubing O.D.

Nylon, Soft nylon:
ø4, ø6, ø8, ø10, ø12, ø16

FR soft nylon, FR double layer:
ø6, ø8, ø10, ø12

Test details

Accelerated
weathering test

UV exposure: **8 hours**
(Type 1A: UVA-340)

UV exposure and water spray: **0.25 hours**
(Type 1A: UVA-340)

Condensation/Dark:
3.75 hours

Combined cycle test

Salt water spray: **2 hours**
(Ambient temperature 35°C, Salinity 5%)

Drying: **4 hours**
(Ambient temperature 60°C,
Relative humidity 20 to 30%)

Humidity: **2 hours**
(Ambient temperature 50°C,
Relative humidity 95% or more)

Ozone-proof
exposure test

Exposure time: **1000 hours**
(Ozone-proof concentration 1 ppm, Ambient temperature 40°C)

Refer to page 12 for the safety instructions of the improved weather resistance tubing.

Nylon Tubing T Series

For details
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Tubing size: **Metric size**

20 m roll

| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|-----------|-------|-----------|----------------------------|--------------------------|
| | | | | | Air/Oil | Water |
| 4 | 2.5 | 20 m | Black | T0425B-20 | -40 to 100 | 0 to 70 (No freezing) |
| | 3 | | | T0403B-20 | | |
| 6 | 4 | | | T0604B-20 | | |
| | 4.5 | | | T0645B-20 | | |
| 8 | 6 | | | T0806B-20 | | |
| 10 | 7.5 | | | T1075B-20 | | |
| 12 | 9 | | | T1209B-20 | | |
| 16 | 13 | T1613B-20 | | | | |

100 m roll

| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|--------|-------|--------------------------|----------------------------|--------------------------|
| | | | | | Air/Oil | Water |
| 4 | 2.5 | 100 m | Black | T0425B-100 | -40 to 100 | 0 to 70 (No freezing) |
| | 4 | | | T0604B-100 | | |
| 6 | 4.5 | | | T0645B-100 | | |
| | 8 | | | 6 | | |
| 10 | 7.5 | | | T1075B-100 | | |
| 12 | 9 | | | T1209B-100 | | |
| 16 | 13 | | | T1613B-100 ^{*1} | | |

*1 T1613 is reel.

Longer Length Reel Tubing (500/300 m)

For details
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| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|--------|-------|----------------|----------------------------|--------------------------|
| | | | | | Air/Oil | Water |
| 6 | 4 | 500 m | Black | T0604B-500-X64 | -40 to 100 | 0 to 70 (No freezing) |
| 8 | 6 | 300 m | | T0806B-300-X64 | | |

Soft Nylon Tubing TS Series

For details
P.678



Tubing size: **Metric size**

Slightly flexible tubing

20 m roll

| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|--------|-------|------------|----------------------------|--------------------------|
| | | | | | Air/Oil | Water |
| 4 | 2.5 | 20 m | Black | TS0425B-20 | -40 to 100 | 0 to 50 (No freezing) |
| 6 | 4 | | | TS0604B-20 | | |
| | 8 | | | 6 | | |
| 10 | 7.5 | | | TS1075B-20 | | |
| 12 | 9 | | | TS1209B-20 | | |
| 16 | 12 | | | TS1612B-20 | | |

100 m roll

| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|--------|-------|---------------------------|----------------------------|--------------------------|
| | | | | | Air/Oil | Water |
| 4 | 2.5 | 100 m | Black | TS0425B-100 | -40 to 100 | 0 to 50 (No freezing) |
| | 6 | | | 4 | | |
| 8 | 6 | | | TS0806B-100 | | |
| | 10 | | | 7.5 | | |
| 12 | 9 | | | TS1209B-100 | | |
| 16 | 12 | | | TS1612B-100 ^{*1} | | |

*1 TS1612 is reel.

Refer to page 12 for the safety instructions of the improved weather resistance tubing.

Flame Resistant (Equivalent to UL-94 Standard V-0) FR Soft Nylon Tubing **TRS Series**



For details
P.701

Tubing size: Metric size

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

20 m roll

| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|--------|-------|-------------|----------------------------|--------------------------|
| | | | | | Air | Water |
| 6 | 3 | 20 m | Black | TRS0603B-20 | -20 to 60 | 0 to 60 (No freezing) |
| 8 | 5 | | | TRS0805B-20 | | |
| 10 | 6.5 | | | TRS1065B-20 | | |
| 12 | 8 | | | TRS1208B-20 | | |

100 m reel

| O.D. | I.D. | Length | Color | Model | Operating temperature [°C] | |
|------|------|--------------|-------|-----------------|----------------------------|--------------------------|
| | | | | | Air | Water |
| 6 | 3 | 100 m | Black | TRS0603B-100 | -20 to 60 | 0 to 60 (No freezing) |
| | 4 | | | TRS0604B-100-X3 | | |
| 8 | 5 | | | TRS0805B-100 | | |
| 10 | 6.5 | | | TRS1065B-100 | | |
| 12 | 8 | TRS1208B-100 | | | | |

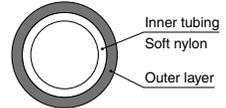
Flame Resistant (Equivalent to UL-94 Standard V-0) FR Double Layer Tubing **TRB Series**



For details
P.702

Tubing size: Metric size

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 2-layer tubing

20 m roll

| Inner tubing O.D. | Inner tubing I.D. | Length | Color | Model | Operating temperature [°C] | |
|-------------------|-------------------|--------|-------|-------------|----------------------------|--------------------------|
| | | | | | Air | Water |
| 6 | 4 | 20 m | Black | TRB0604B-20 | -20 to 60 | 0 to 60 (No freezing) |
| 8 | 6 | | | TRB0806B-20 | | |
| 10 | 7.5 | | | TRB1075B-20 | | |
| 12 | 9 | | | TRB1209B-20 | | |

100 m reel

| Inner tubing O.D. | Inner tubing I.D. | Length | Color | Model | Operating temperature [°C] | |
|-------------------|-------------------|--------|-------|--------------|----------------------------|--------------------------|
| | | | | | Air | Water |
| 6 | 4 | 100 m | Black | TRB0604B-100 | -20 to 60 | 0 to 60 (No freezing) |
| 8 | 6 | | | TRB0806B-100 | | |
| 10 | 7.5 | | | TRB1075B-100 | | |
| 12 | 9 | | | TRB1209B-100 | | |

Related Products

For details **P.752**

Tube Cutter/TK-6

- Perpendicular cutting
Air leakage due to cutting failure reduced
- Replaceable blade
- Safety lock contained



* Do not use it to cut metallic materials such as electric wires.

| Model | TK-6 |
|----------------------------------|--|
| Applicable tubing material | Nylon, Soft nylon, Polyurethane, and other soft plastic tubing |
| Max. tubing O.D. that can be cut | 16 mm or less |
| Weight | 130 g |
| Replacement blade part no. | TK6KAEHA (5 replacement blades + 2 mounting screws) |