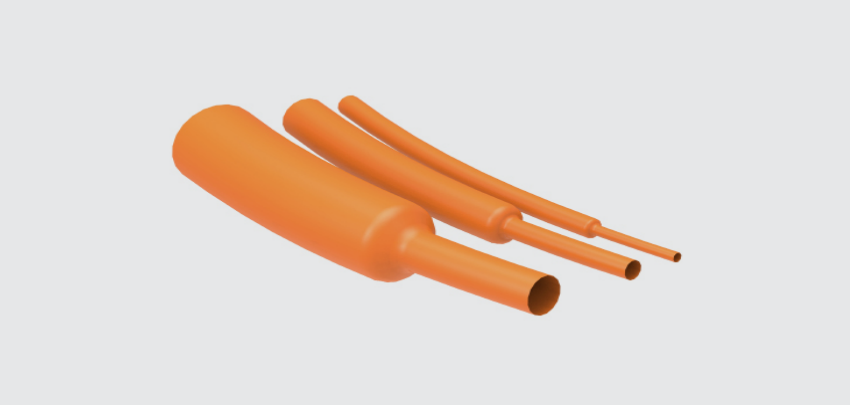
# VOLINSU TUBING: EVSW



## ELECTRIC VEHICLE, SINGLE WALL TUBING (EVSW)

## PRODUCT BENEFITS

- Electric Vehicle associated orange color to match the RAL2003 (nominal) standard for high voltage circuits.
- Easy identification of higher voltage circuits.
- Does not propagate burning to support vehicle operators and passengers safety.
- Can fit both components and cables.
- Easy to install while maintaining cable flexibility.
- Achieve lightweight requirements.
- Deliver optimum thermal stability, electrical resistivity and high voltage performance.

Orange single wall tubing has been specifically designed for the use within the vehicle electrification market.

EVSW has been designed from a flame retardant material with excellent electrical properties, alongside excellent insulation combined with the benefits of a heat shrink tube to allow use over both simple and intricate shapes. Based on other automotive applications the materials selected have proven use in many applications, creating a strong performance base to create a dedicated solution for the electric vehicle market.

EVSW tubing can be installed using conventional application equipment such as a hot air gun, a conveyor oven or air circulation oven. The product has a low shrink temperature so excessive heating is not required as it can cause damage to the product. Finally the EVSW tubing can be used in applications up to 135°C (275°F), with a short time excursion of up to 200°C (392°F).

## TEMPERATURE RATING

- Full recovery temperature: **90°C (194°F)**
- Continuous operating temperature: **–55°C to 135°C (-67°F to 275°F)**
- Minimum shrink temperature: **70°C (158°F)**

## PRODUCT PERFORMANCE

- **High level safety**
  - High volume resistivity.
  - Testing conducted in accordance to ASTM D2671.
- **Improved thermal and copper stability**
  - Excellent color stability
  - No cracking
  - Competitor tested EV heat shrink, discolors and cracks.
- **Better softness and flexibility**

## MARKETS

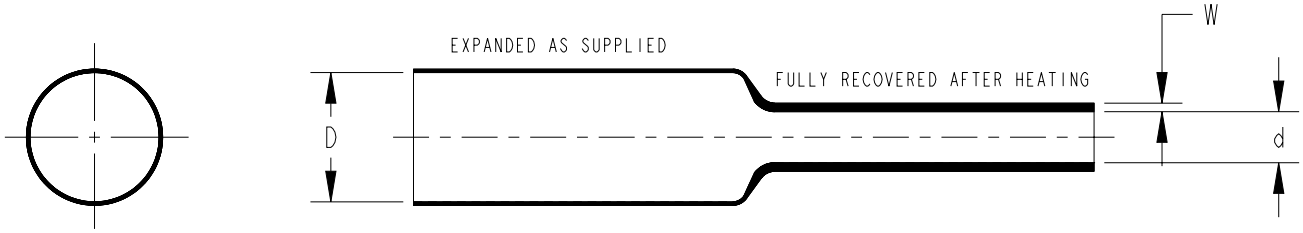
- Automotive
- Industrial and Commercial Transportation

## SPECIFICATIONS*

- Type: **VOLINSU TUBING: EVSW**
- Raychem: **108-120071**
- Does not propagate burning as specified in UL224 conducted internally at TE

*When ordering, always specify the latest specification file.

## DIMENSIONS (MILLIMETERS/INCHES)




| Product size | Inside diameter (including core) | | Recovered wall thickness** |
|---|---|---|---|
| | Expanded as supplied D (min.) | d (max.) Recovered after heating | W Nominal Recovered wall |
| 10/5 | 10.00 (0.394) | 4.50 (0.177) | 0.64 (0.025) |
| 12.7/6.4 | 12.70 (0.500) | 6.40 (0.252) | 0.64 (0.025) |
| 20/9.5 | 20.00 (0.787) | 9.50 (0.374) | 0.76 (0.030) |
| 26/12.7 | 26.00 (1.024) | 12.70 (0.500) | 0.88 (0.035) |
| 40/19 | 40.00 (1.575) | 19.00 (0.748) | 1.01 (0.040) |
| 50/25 | 50.00 (1.969) | 25.00 (0.984) | 1.14 (0.045) |

Note: Dimensions shown in mm (inches).
**Wall thickness will be less if tubing recovery is restricted during shrinkage.

| ORDERING INFORMATION | |
|---|---|
| Color | EV Orange (-3) |
| Size selection | Always order the largest size that will shrink snugly over the component being covered. |
| Standard packaging | Spools meter |
| Marking | No marking. |
| Ordering description | Specify product name, size, color, and finishing type; for example, EVSW-10/5-3-SP. |

Note: Please refer to the spool length document for details on spool length for each size of the product family.

Are you looking to seal out moisture, offer enhanced strain relief, or provide rigorous mechanical protection? Do you need a flame retardant product? Leverage TE Connectivity's (TE) comprehensive portfolio of heat shrink tubing products in a wide range of applications.

## Learn more: TE.com/heatshrinktubing

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