INTRODUCING EVSW: SINGLE WALL HEAT SHRINK TUBING FOR EV **APPLICATIONS: SUPERIOR HIGH VOLTAGE** PROTECTION FOR MAXIMUM PERFORMANCE



The Acceleration of electric vehicles into the everyday lives continues to drive technology changes and challenges to sustainability. Heat shrink tubing products from TE Connectivity (TE) have also followed these changes and hybrid challenges and has developed a new Single Wall tubing for use specifically with electric vehicles. Electric vehicles require components to perform at high temperatures, not to propagate burning, perform with higher voltages and help identifying circuitry. All this delivers the reliability robustness and security that are demanded to ensure operational steadfastness and confidence.

The new EV Single Wall (EVSW) heat shrink tubing from TE meets the developing demands from this fast-evolving market by delivering a heat shrink tube specifically designed for use to insulate and protect conductive components and cables.

ELECTRIC VEHICLE DESIGN REQUIREMENTS



Efficient Charging

Protect and optimize high voltage components allowing fast and efficient charging and operations.



Weight Management

Lightweight components to optimize performance of electric vehicles.



Protecting components and connectors

from exposure to harsh elements and high voltage architecture.



Signal Integrity

Throughput and signal integrity are key to optimize performance uptime all the time

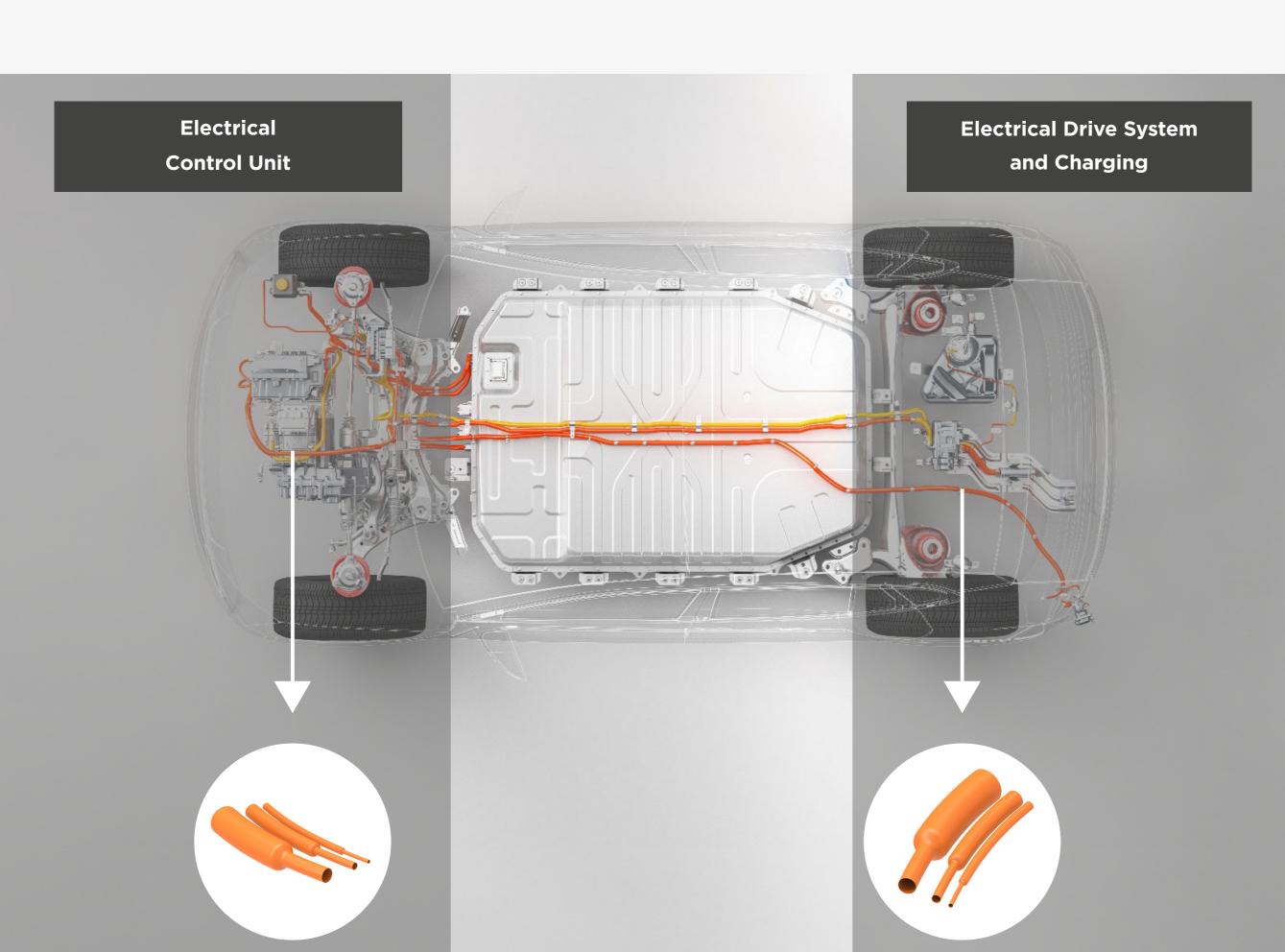


Protect components from flame propagation and fire hazards.



Thermal Management

Manage heat dissipation to improve reliability and prevent premature failure.





EV orange color

HEAT SHRINK TUBING FEATURES & BENEFITS

VOLINSU SINGLE WALL EV



Cable Termination Wire Grouping



Insulation



maximum specified dimension.



and Jacketing



Inside EV

Battery Packs



Do not force the tube over something by

stretching as it can tear during recovery.

Corrugated

Fixture



Flexible Busbar

Insulation

Easy identification of higher

voltage circuits in electric

vehicles

Use the specified dimensions for the recovered internal diameter of the tube. Sometimes the tube will shrink more than the recovered ID, but it will ALWAYS meet the



Follow the installation instructions. especially temperature guidelines:

• Too cold-tubing may not fully recover. • Too hot-tubing may show burn marks or split.

Always use the specified expanded ID dimension.



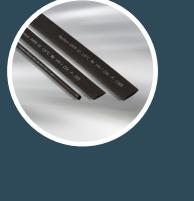
Do not cut the tube to the required final length. The tube changes length during recovery. The more it shrinks, the greater the longitudinal change.

DON'Ts

Do not recover the tubing over anything with sharp edges.

HEAT SHRINK TUBING PORTFOLIO

SINGLE WALL TUBING • Low shrink temperature Bundling protection • Mil-Spec compliant • Abrasion resistant • Meets UL VW1 - flammability • Strain relief • Meets UL/CSA - electrical insulation



- Quick installation
- Variety of colors available for coding
- Cost effective

DUAL WALL TUBING

• Cable repair - bonding & sealing

• Waterproof - submersion

• Splice sealing

- - Meets UL VW1 flammability rating Electrical insulation

Mil-Spec compliant

failure of a system

• UL rating - minimize catastrophic

• Water, heat and humidity resistant

- - Protects from harsh environments • Superior abrasion and

chemical resistant

Color differentiation

Flexible and shiny

failure of a system

Flexible

• Rapid production time

• UL rating - minimize catastrophic

tubing options



· Strain relief

• Direct burial water - proofing

Underground water protection

- **SPECIALTY TUBING**
- Abrasion protection • Greater than 150°C rated - high

temperature environments

Fungal and mold protection

Flame retardant

Mil-Spec compliant

- UL rating minimize catastrophic failure of a system
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