

INTRODUCING SINGLE WALL FLAME RETARDANT (SWFR) TUBING

- Satisfy increasing demand for safety with highly flame-retardant UL VW-1 rating
- Use in confined areas where halogenated materials are prohibited due to their emitting toxic or acidic gases when burned



TE Connectivity (TE) introduces single wall flame retardant (SWFR) tubing, a halogen-free, UL VW-1 rated single wall heat shrink tubing. TE's SWFR is a highly flame-retardant, 2:1 shrink ratio, polyolefin tubing with a low shrink temperature for fast application. Advances in material science and manufacturing efficiencies allow SWFR tubing to be offered at an attractive price point. It is offered in thin wall (X2) and very thin wall (X4) versions.

BENEFITS

- Satisfy increasing demand for safety with highly flame-retardant UL VW-1 rating
- Acceptable for use in confined areas where halogenated materials are prohibited due to their emitting toxic or acidic gases when burned
- Enable electrical insulation and mechanical protection with irradiated polyolefin jacket
- Permit quick installation with low shrink temperature
- Allow for design flexibility with broad range of sizes and wall thicknesses

ELECTRICAL

- X2 (thin wall) type is UL-recognized and CSA certified at 125°C, 600 V, with UL VW-1 and CSA OFT flame retardancy ratings
- X4 (very thin wall) type is UL-recognized and CSA-certified at 125°C, 300 V, with UL VW-1 and CSA OFT flame-retardancy ratings

MATERIALS

- Minimum shrink temperature: 70°C (158°F)
- Full recovery temperature: 90°C (194°F)
- Operating temperature range: -30°C to 125°C (-22°F to 257°F)

STANDARDS & SPECIFICATIONS

- UL Recognized: File E35586
- CSA Certified: File LR31929

MECHANICAL

- Shrink Ratio: 2:1
- Size Ranges:
 - X2 (thin wall) type
 - 1/0.5 through 30/15
 - X4 (very thin wall) type
 - 0.8/0.4 through 25/12.5

Note: Size is indicated in millimeters, with the first number indicating the minimum inside diameter as supplied and the second number indicating the maximum inside diameter after recovery.

APPLICATIONS

- Control cabinets
- Elevators and escalators
- Off-road vehicles
- Computer peripherals
- Refrigerators
- Mass transit vehicles

LEARN MORE

- [SWFR Landing Page](#)
- [SWFR Product Flyer 1-1773894-4](#)
- [SWFR X2 Customer Drawing](#)
- [SWFR X4 Customer Drawing](#)
- [SWFR X2 Data Sheet](#)
- [SWFR X4 Data Sheet](#)
- [SWFR Parts List](#)