

FIT[®] Heat-Shrink Tubing



The perfect FIT for any need



Need to protect a crimped terminal mechanically or environmentally? Color code wires for easy circuit identification? Make fast, reliable repairs to nicked or worn insulation? Whether your concerns are mechanical

strain relief, environmental sealing, or organizing wires, Alpha

Wire's FIT heat-shrink tubing is ideal for solving many challenges in electrical and electronic wiring:

- Protect substrates from moisture, UV light, corrosion, oxidation, dust, chemicals, abrasion, environmental conditions, solder joints, and encapsulate
- Insulate wire terminations, connections, and entire printed circuit boards, from electrical and environmental conditions

- Repair cable splices, insulation damage and cuts, cable jackets, and connections, with permanent or temporary quick repairs
- Relieve strain on cables and connectors to prevent harmful flexing or bending
- Bundle and organize wire harness, cable, tubing, and hose dressing
- Seal connections, backshells, and gaps from moisture and other contaminants
- Identify circuits through color coding, grouping, and labeling

FIT heat-shrink products

Our FIT heat-shrink tubing offers a reliable way to protect and seal terminations or add additional mechanical ruggedness. FIT preferred heat-shrink products are made from premium compounds under the tightest manufacturing controls. This means FIT will consistently have excellent

physical characteristics such as low longitudinal shrinkage and wide temperature ranges while providing an elegant appearance when used alone or on OEM equipment.

The FIT line consists of various tubing types, each designed with unique attributes that offer tubing solutions for the broadest possible range of applications and environments. FIT tubing products are always in stock and come in an unprecedented variety of package sizes.

Beyond the widely used polyolefin tubing that is suited to the broadest range of general-purpose needs, we offer a number of other materials for higher or lower shrink temperatures, wider operating temperatures, and such special needs as outstanding chemical resistance or increased flexibility.

| Material | Features | Shrink Temperature | Shrink Ratio | FIT Family |
|--|---|--------------------|--------------|----------------------|
| Single-Wall Irradiated Polyolefin for General-Purpose Use | | | | |
| Irradiated polyolefin | General purpose heat-shrink tubing Range of shrink ratios | 90°C | 2:1 | FIT-221 |
| | | 110°C | 3:1 | FIT-321 |
| | | 90°C | 4:1 | FIT-421 |
| | | 121°C | 6:1 | FIT-621 |
| Flame-retardant irradiated polyolefin | Low shrink temp Passes UL VW-1 flame test | 90°C | 2:1 3:1 | FIT-221V FIT-321V |
| Irradiated polyolefin | Approved for 600 V ground lead identification Green with yellow stripe Passes UL VW-1 flame test | 90°C | 2:1 | FIT-260 |
| Semirigid irradiated polyolefin | 30% stronger and 25% stiffer than standard polyolefin | 130°C | 2:1 | FIT-295 |
| Dual-Wall Polyolefin for Additional Sealing | | | | |
| Surface irradiated, dual extruded | Meltable inner wall to encapsulate without adhesive | 140°C | 3:1 to 6:1 | FIT-300 |
| Bonding, mastic lined | Bonds to most materials High voltage splicing: to 1 kV | 120°C | 3:1 | FIT-700 |
| Bonding, adhesive lined | Permanent water and corrosion protection | 110°C | 2:1 | FIT-750 |
| Special-Application Tubing | | | | |
| Irradiated PVC | Low shrink temperature Passes UL VW-1 flame test 30% stronger than standard polyolefin | 100°C | 2:1 | FIT-105 |
| Irradiated Kynar® | Fast recovery time Excellent chemical, heat, and flame resistance Passes UL VW-1 flame test 3x the tensile strength of standard polyolefin | 170°C | 2:1 | FIT-350 |
| Teflon® FEP | High shrink temperature Excellent chemical resistance Excellent dielectric properties Thinnest wall thickness available | 200°C | 1.2:1 | FIT-400 |
| Teflon PTFE | High shrink temperature Excellent chemical resistance Excellent dielectric properties Very thin wall thickness | 250°C | 1.5:1 | FIT-500 |
| Irradiated elastomer | Highly flexible Oil and abrasion resistant Passes UL VW-1 flame test | 130°C | 1.75:1 | FIT-600 |
| Irradiated Viton® | High shrink temperature Excellent chemical resistance Flexible | 120°C | 2:1 | FIT-650 |
| Woven fabric | Superior abrasion resistance Excellent flexibility Resists harsh environments | 110°C | 2:1 | FIT Fabric |
| Irradiated silicone rubber | High flexibility available Pliable Scrape abrasion resistant Passes UL VW-1 flame test | 200°C | 1.7:1 | FIT Flex |
| Irradiated Kynar | Transparent after shrink Fast recovery time Excellent chemical, heat, and flame resistance Passes UL VW-1 flame test 3x the tensile strength of standard polyolefin | 150°C | 2:1 | FIT Clear |

Go beyond tubes to kits and shapes

We also offer FIT kits, containing an assortment of sizes and styles of tubing that are perfect for R&D labs, engineering departments, or maintenance. We also offer heat-shrink products in special shapes, including:

- End caps
- Solder sleeves
- Crimps

Alpha heat guns are the perfect complement to our tubing, making it easy to apply FIT tubing quickly and efficiently.



The cables you trust. The service you deserve.

Every application is critical and cable failure is not an option when the safety of your equipment and personnel is paramount. Specify Alpha Wire FIT heat-shrink tubing for harsh environments and crucial applications; since the integrity of your system is only as robust as the products you use.

Superior availability

Alpha offers FIT heat-shrink tubing from stock in most sizes and constructions, so you can order it when you need it. Our products are available for same-day shipment, eliminating long lead times.

Service and support, second-to-none

Selecting the correct heat-shrink tubing is essential to overall system reliability, performance, and safety. So we make it easy for you select the right Alpha tubing for your specific application.

Our online resources include a FIT tubing sizing guide, a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the cable you need. Can't find what you're looking for? Design the cable to your specification, it's easy, just visit **www.alphawire.com**!

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