



GORE™ High Strength Toughened Fluoropolymer (HSTF) Wire

Summary

Gore's flagship dielectric material, High Strength Toughened Fluoropolymer, redefines fluoropolymer cable. GORE™ High Strength Toughened Fluoropolymer insulation provides the chemical, electrical and thermal resistance of PTFE with vastly improved mechanical performance. The unequalled set of properties of GORE™ High Strength Toughened Fluoropolymer combine with Gore's highly evolved tape wrap process to offer high performance insulated wire especially suited for demanding applications such as mil/aero, space, and tough industrial environments.

- Excellent abrasion resistance
- High cut through resistance
- Non-creeping
- Light Weight
- High Strength and Toughness
- Replaces thicker insulations of XLETFE, PTFE, FEP

GORE™ High Strength Toughened Fluoropolymer insulated wire is available in many forms, including:

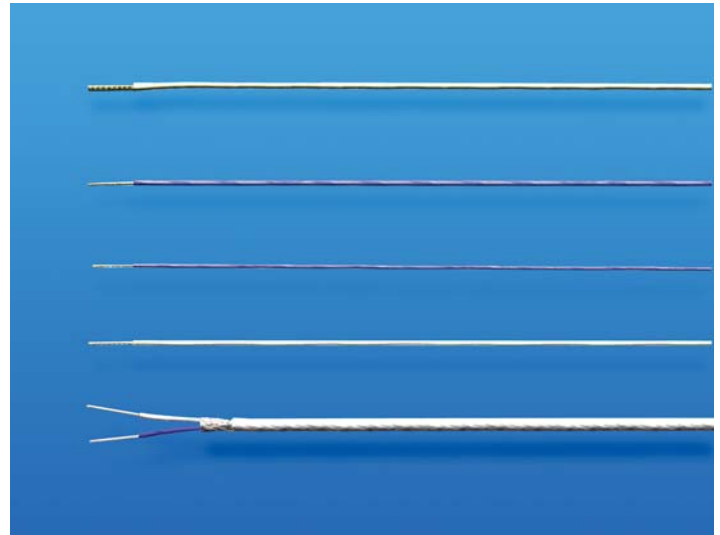
- Singles (50 AWG to 20 AWG)
- Twisted Pairs (50 AWG to 20 AWG)
- Controlled Impedance Twisted Pairs
- Insulation Thickness: 0.0005" to 0.008"

SUPERIOR ABRASION AND CUT-THROUGH RESISTANCE

With all the performance advantages of a fluoropolymer, GORE™ High Strength Toughened Fluoropolymer is far tougher than commonly specified mil/aero wiring insulations. Unlike XLETFE, GORE™ High Strength Toughened Fluoropolymer wire retains more of its mechanical properties as the temperature rises.

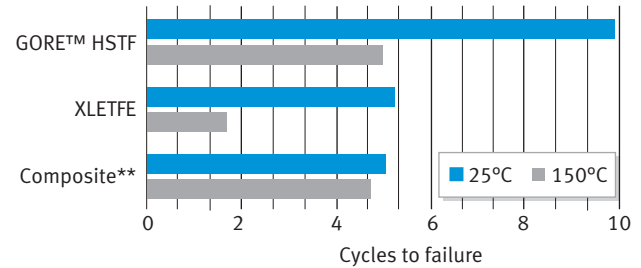
ADD PERFORMANCE OR REDUCE THE SIZE/WEIGHT OF ANY GORE INSULATED WIRE

GORE™ High Strength Toughened Fluoropolymer insulation can greatly extend the mechanical performance of any GORE™ Insulated Wire. If wire diameter and weight are important, GORE™ High Strength Toughened Fluoropolymer can substitute for much thicker insulations while surviving demanding environments. Contact Gore with your application requirements.

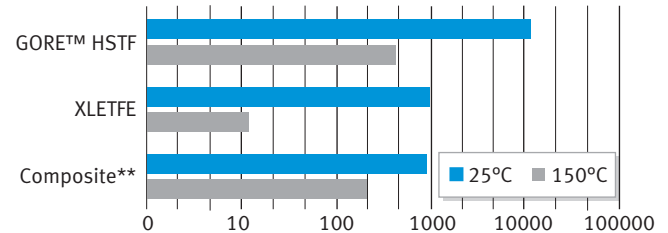


GORE™ High Strength Toughened Fluoropolymer insulation provides the chemical, electrical and thermal resistance of PTFE with vastly improved mechanical performance.

SCRAPE ABRASION TEST: 0.006" WALL*



DYNAMIC CUT-THROUGH: 0.006" WALL*



*0.016" blade, 330 grams weight.

**MIL-W-22759/80-92 Teflon®-KAPTON®-Teflon®

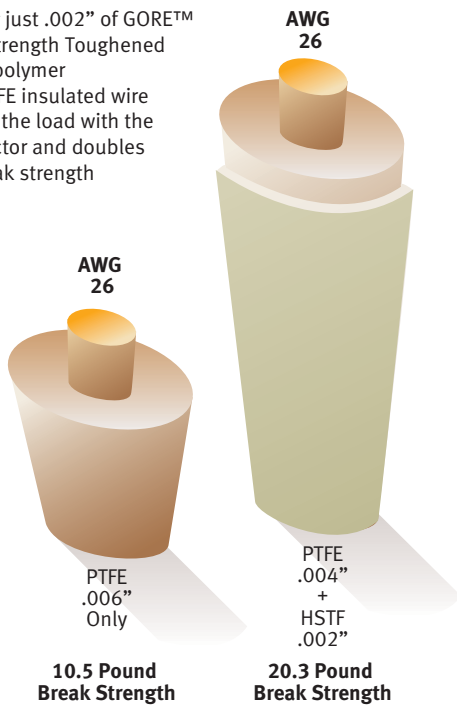


GORE™ High Strength Toughened Fluoropolymer (HSTF) Wire

HIGH BREAK STRENGTH AND SMALL CONDUCTOR LOAD SHARING

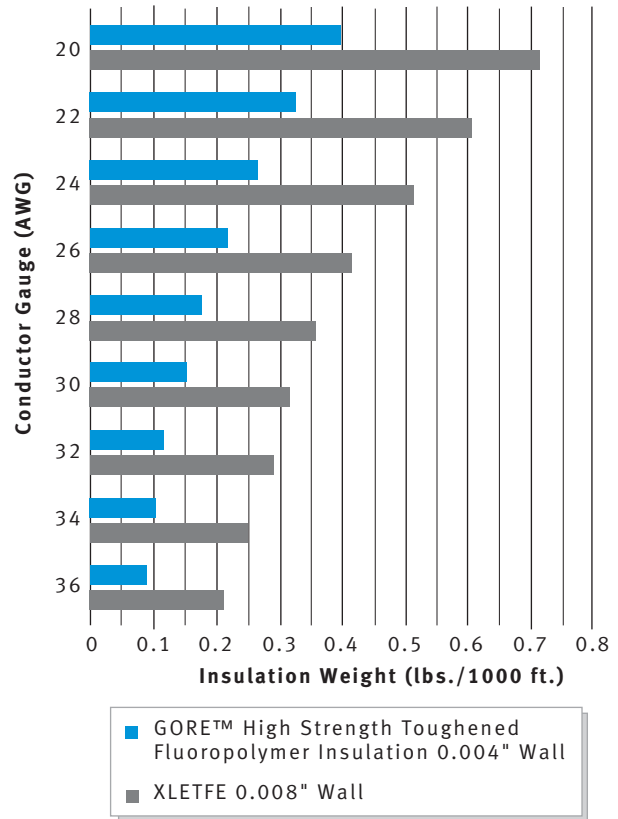
A thin wall of GORE™ High Strength Toughened Fluoropolymer insulation goes a long way toward dramatically increasing the break strength of a wire. As the example below shows, adding just .002" of GORE™ High Strength Toughened Fluoropolymer to a PTFE insulated wire shares the load with the conductor and doubles its break strength.

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THIN WALLS MEAN LIGHT WEIGHT

The extraordinary strength of GORE™ High Strength Toughened Fluoropolymer insulation allows a much thinner wall with no sacrifice in mechanical integrity. This translates into small size and light weight compared to commonly specified mil/aero insulations.



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