

**NEW•tuf** \ 'nū - təf \ n

**1** : A tough silicone rubber jacket specifically designed to provide high axial tensile strength while maintaining superior flexibility and high temperature performance.  
**2** : One of many high-performance product offerings from New England Wire Technologies, a world leader in the design and manufacture of specialty wire and cable.

## Product Advantages

- ◆ High Tensile Strength
- ◆ Low Elongation
- ◆ Autoclavable
- ◆ High Flexibility
- ◆ Excellent High-Temperature Integrity

## Technical Information

Silicone rubber is preferred over other jacketing materials due to its high flexibility, performance at high temperatures, and ease of sterilization. Certain medical applications require that cable jackets be cleaned by wiping the surface with solvents. Conventional silicone rubber jackets may become stretched and distorted during the cleaning process. Furthermore, it is desirable to limit the elongation of the jacket in some silicone rubber jacketed cable assemblies when equipped with molded connectors.

With a peak strength three times that of conventional silicone rubber, NEWtuf® reinforced jackets withstand axial forces without reducing flexibility. Although tougher than conventional silicone rubber, the jacket can still be easily stripped with standard equipment.

150°C/300V UL AWM Styles are available for medical instrument interconnecting cable applications.

Material Properties			
Property	Conventional	NEWtuf®	Competitor
Elongation 5 lbf	86%	0.03%	2.0%
Elongation 20 lbf	490%	1.0%	20%

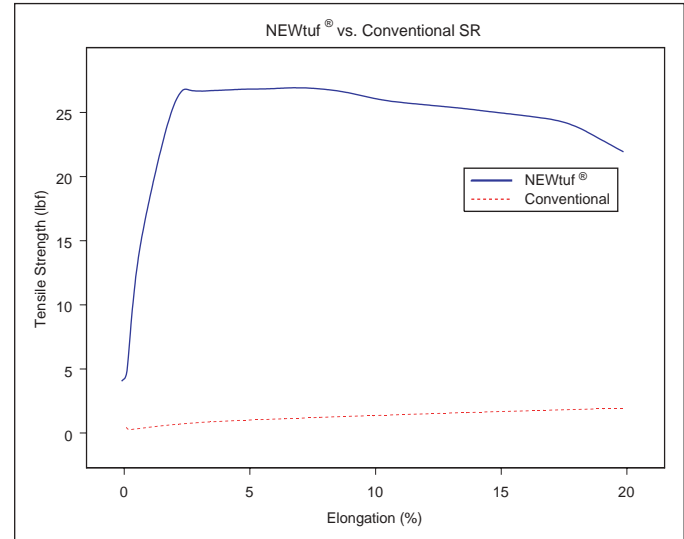


Figure 1: When a force is applied, NEWtuf® exhibits very little elongation unlike conventional silicone rubber jackets.

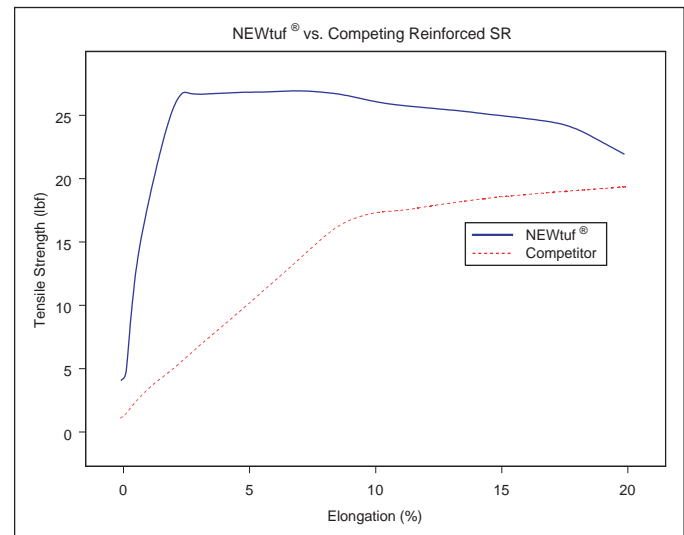


Figure 2: A comparison of the performance of NEWtuf® vs. competing reinforced jackets proves NEWtuf® to be superior.

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