

Fiber Stretch K-Spec vs. Polyester

Polyester round slings stretch 3% of their length when loaded to their rated capacity. This is three times the stretch of Twin-Path® Extra slings with K-Spec® core yarns. However, braided or Multi-part polyester round slings as made by the "Competitor" stretch 9% of their length at rated capacity. This is nine times the stretch of a Twin-Path® Extra sling with K-Spec® core yarn.

Comparing slings with polyester against K-Spec® core material based on a beginning length of 50' would result in the following:

Polyester Braided slings would have a 54" stretch compared to 6" for the K-Spec® material.

The length tolerance of new slings given in the manufacturers catalog for the "Competitors" product is a minimum of plus or minus 1" for the single path round sling. That means that the best they can guarantee is the possibility that two new single path round slings may only be 2" different in length. However, they say that the difference could be as much as plus or minus 1% which would mean as much as a 12" difference between two new fifty foot slings.

On the braided slings made from polyester by the "Competitor" the length tolerance is plus or minus 5% which would mean a difference of 60" or 5' on two new 50' slings.

Our length tolerance on Twin-Path® slings is about plus or minus ½" on every type and size which means a total difference of 1". Slings made for Nuclear plants are allowed a length tolerance of plus or minus 2" which is ample for any of our products but would restrict the use of the "Competitors" braided slings.

For most rigging applications, the stretch of 9% and the length tolerance of + or - 5% given in the "Competitors" catalog would render their braided products as nonconforming. The end user has to decide on two 50' braided slings with a length difference of 60" and a stretch of 54" compared to two Twin-Path® Extra slings with a length difference of 1" and a stretch of 6".

If people are familiar with the SLINGMAX® Twin-Path® Extra benefits then polyester slings become a mute point in the market place.