

HPF Cordage Vs. Twin-Path® Extra Slings

The customer specifications required a synthetic tension member with 100,000 lb rated capacity at a 5-1 design factor. The required breaking strength was a minimum of 500,000 lbs. The engineer asked us to quote on both Twin-Path® and Cordage products.

The length specification called for 100' from pull to pull with at least 10' loops in each end.

We researched the available cordage and decided on a 3" diameter HMPE (Spectra®) rope. To meet the requirements of the inquiry we needed at least 154' of 3" diameter rope.

The total cost of the material quoted by the manufacturer was \$3,000 higher than the material cost for an equivalent Twin-Path® Extra sling.

The 3" diameter rope sling weighed a total of 317 lbs compared to 220 lbs for the Twin-Path® Extra.

Twin-Path® Advantages compared to equivalent cordage sling:

- 30% lighter
- 44% less material cost
- Load bearing fibers covered by heavy-duty CoverMax™ cover, gives protection from abrasion, cutting, ultra-violet light.
- Overload Tell-Tails and Fiber Optic inspection system built-in.
- Available instantly from more than 30 fabrication centers worldwide.
- Recommended pin diameter for TPXC-3". For 3" diameter cordage – 9". (From Cordage institute standards).

Cordage Sling advantages compared to equivalent Twin-Path® sling:

- There are no advantages.