

Length Tolerance for Twin-Path® Extra Slings

Many critical lifts require exact sling lengths. Slingmax® Twin-Path® Slings are made with a patented machine that guarantees exact sling lengths and repeatability. The length tolerance for Twin-Path® Extra Slings is more exact than any other steel or synthetic sling on the market. The following chart is a general guide. If tighter length tolerances are required this can be achieved; simply specify the requirements upon ordering.

<u>Sling length</u>	<u>Tolerance</u>
Less than 40-ft.	(+/-) 1-inch
40-ft. to 80-ft.	(+/-) 2-inches
Over 80-ft.	(+/-) 3-inches

Twin-Path® Extra slings stretch less than 1% at rated capacity, the same as steel wire rope slings. It is important to note that Twin-Path® Extra slings have a bulked nylon double cover which protects the K-Spec® core yarn inside. Nylon shrinks when relaxed and stretches under load whereas K-Spec® does not. Therefore, roundsling covers will show some expansion and contraction over time. This is normal and does not affect sling length tolerance. Floor measuring, especially with used slings is not always accurate. To ensure optimal accuracy, we recommend measuring Twin-Path® Slings under load even if it is only 10% of rated capacity. This can be verified safely at the manufacturers' location during the proof loading procedure. It can also be performed upon request or when slings are repaired and recertified.

Exact Sling Lengths- Example #1 – July 2007

Customer ordered 2ea. TPXC 50,000 x 110'. At Vertical Rated Capacity (500,000 lbs.) there was ¼" difference in length between the two slings.

<u>Length</u>
Sling 1. 110'
Sling 2. 110' -¼"



Exact Sling Lengths- Example #2 – February 2009

Customer ordered 5ea. TPXC 80,000 x 44' 3". (Vertical Rated Capacity = 800,000 lbs.)
We measured each sling under 100,000 lbs of load and the variance between all 5 was $\frac{3}{4}$ " (.75) of an inch.

Length

- Sling 1. 44' 2.25"
- Sling 2. 44' 2.75"
- Sling 3. 44' 3"
- Sling 4. 44' 3"
- Sling 5. 44' 3"

