



“Hey
Cowboy...
Wanna
See Your
ROUNDSLINGS?”

FIRST
Sling Technology
Products For Slingmakers From Slingmakers

Full Inspection RoundSling Technology

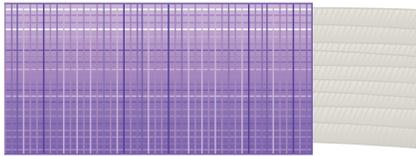


The *Inspectable* Roundsling

U.S. Patent #747926 Other U.S., Canada and Foreign Patents Pending

The History

In the history of sling standardization, the synthetic roundsling has remained the one and only type of sling wherein the actual load bearing material has been hidden from the sling user for visual inspection. Inspection and removal criteria have relied almost entirely upon the appearance and condition of a cover with NO rated capacity.

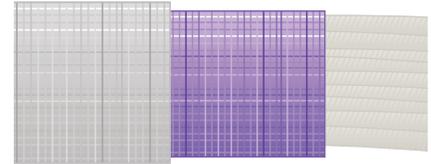


The cover serves to embody, secure and protect the sling's core and round shape.



The focus of industry improvements has traditionally taken two directions.

The use of higher strength core yarn fibers to produce "high performance" synthetic roundslings with higher rated capacities.



The selection of heavier duty, heat or chemical resistant cover fabrics.



Cover in Good Condition



Sling Overload Failure

Regardless of the type of cover, multiple uses and fiber on fiber abrasion between the core yarns may cause yarn deterioration and destruction, decreasing strength and preempting sling failure. Layer upon layer of covers have been used as "fixed wear protection," allowing sling damage and deterioration to go unobserved.



Tails - There is no predictable way of determining when the failure indicator will be triggered.



Optics - May indicate an overload condition when, in fact, no overload condition was reached.

External indicators have been added in attempts to provide signs of core wear or damage. The common result of each piece of this sling jewelry is the removal of the sling from service and its return to a manufacturer for evaluation. The load bearing core, with certain rated capacities, remains hidden. Training for external indicators is confusing and costly and held outside the scope of inspection standardization.

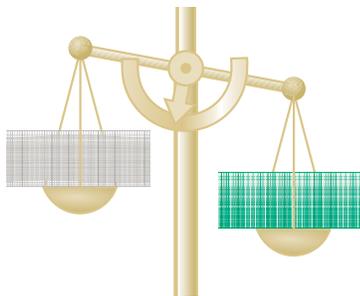
The Invention

The *Inspectable* Roundsling



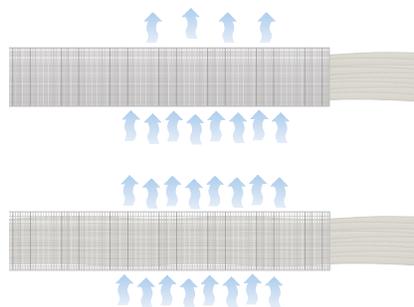
FIRST® Full Inspection RoundSling Technology
The Transparent Cover Embodies and Protects Without Prohibiting a Visual Inspection of the Working Roundsling, The Core, The Lifting Sling!

Weighs Less



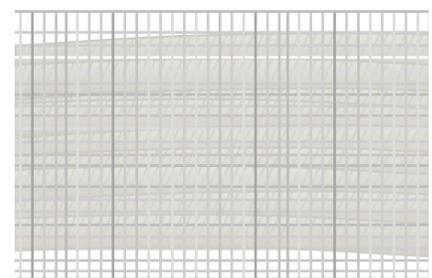
Less than half of an opaque sling of the same rated capacity.

Dries Faster



Breathable cover with improved resistance to mildew and rotting.

Snag Resistant



Snag Resistant Weave.



The FAQs

How will I know the rated capacity of my Inspectable Roundsling without a color coded cover?

ASME, the American Society of Mechanical Engineers, **B30.9**, does not reference color as a means of identification. Rated loads are an ID requirement. Statistics are that 1 in 12 people have some sort of color blindness, the most common form being the inability to discriminate between red and green.

(*Inspectable* Roundsling manufacturers do offer areas of color coding upon request.)



This green roundsling is rated at less than half the capacity of the red.



Color coding in the tag area.

Can dirt get inside my Inspectable Roundsling?



Slings with equal exposure to sand.

Contaminates have always penetrated the old style roundslings, but have gone unseen. The *Inspectable* Roundsling has hole openings of only .004 sq. in. **Opaque multifilament covers have continuous and immeasurable openings.** Abrasive particles such as sand or small metal shavings have gone unseen, risking hidden damage to the rated core yarns.

What about my Inspectable Roundsling's abrasion resistance?

After running 2500 cycles on the Hex Bar Abrasion Test per Federal Std-191 Method 5308, surface resistance of the *Inspectable* Roundsling's transparent cover was comparable to that of both nylon and polyester tubulars.



The FAQs

What if I need padding or wear protection for my Inspectable Roundsling?



A variety of edge and wear protectors are available from your slingmaker.



Photo compliments of TIRC Training and Inspection Resource Center

B30.9 states that “slings in contact with edges, corners, protrusions, or abrasive surfaces shall be protected with a material of sufficient strength, thickness, and construction to prevent damage.” **Appropriate wear protection is required for ALL roundslings. Adding fixed opaque covers increase the risk of hidden damage to your roundsling’s load rated core!** Consult your sling supplier for sliding or removable wear products.

If it gets dirty, how can I inspect my Inspectable Roundsling?

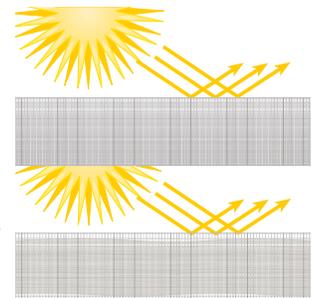


Before and after cleanup of wheel bearing grease.

Should environmental conditions result in a limited 360° view of your sling’s core yarns, the *Inspectable* Roundsling is finished with PTFE, a treatment similar to Teflon®, that promotes the removal of dirt, grease and grime as necessary for field inspection.

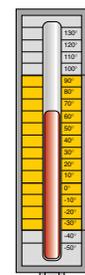
How does sunlight, UV or ultraviolet light affect my Inspectable Roundsling?

UV testing comparing roundsling core yarns inside the transparent cover, polyester and nylon jackets have proven that the *Inspectable* Roundsling provides equal protection.



What temperature ranges can my Inspectable Roundsling tolerate?

The transparent monofilaments of the *Inspectable* Roundsling’s cover are polyester, therefore, according to B30.9, shall not be used at temperatures in excess of 194° F (90° C), or at temperatures below minus 40° F (minus 40° C), the same standard as opaque polyester and nylon covers.



The Inspection

To inspect is to “view narrowly and critically.”

Wire Rope Slings, Chain Slings, Fiber Rope Slings, Wire Mesh Slings and Flat Web

Sling inspections...none require costly or confusing accessories to perform a visual inspection.



Photo compliments of TIRC Training and Inspection Resource Center

Now Riggers Can See Their Roundslings Too!



**The *Inspectable* Roundsling
True Advancement in Lifting Safety**

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The *Inspectable* Roundslings



Available from Licensed Slingmakers and their Authorized Distributors
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