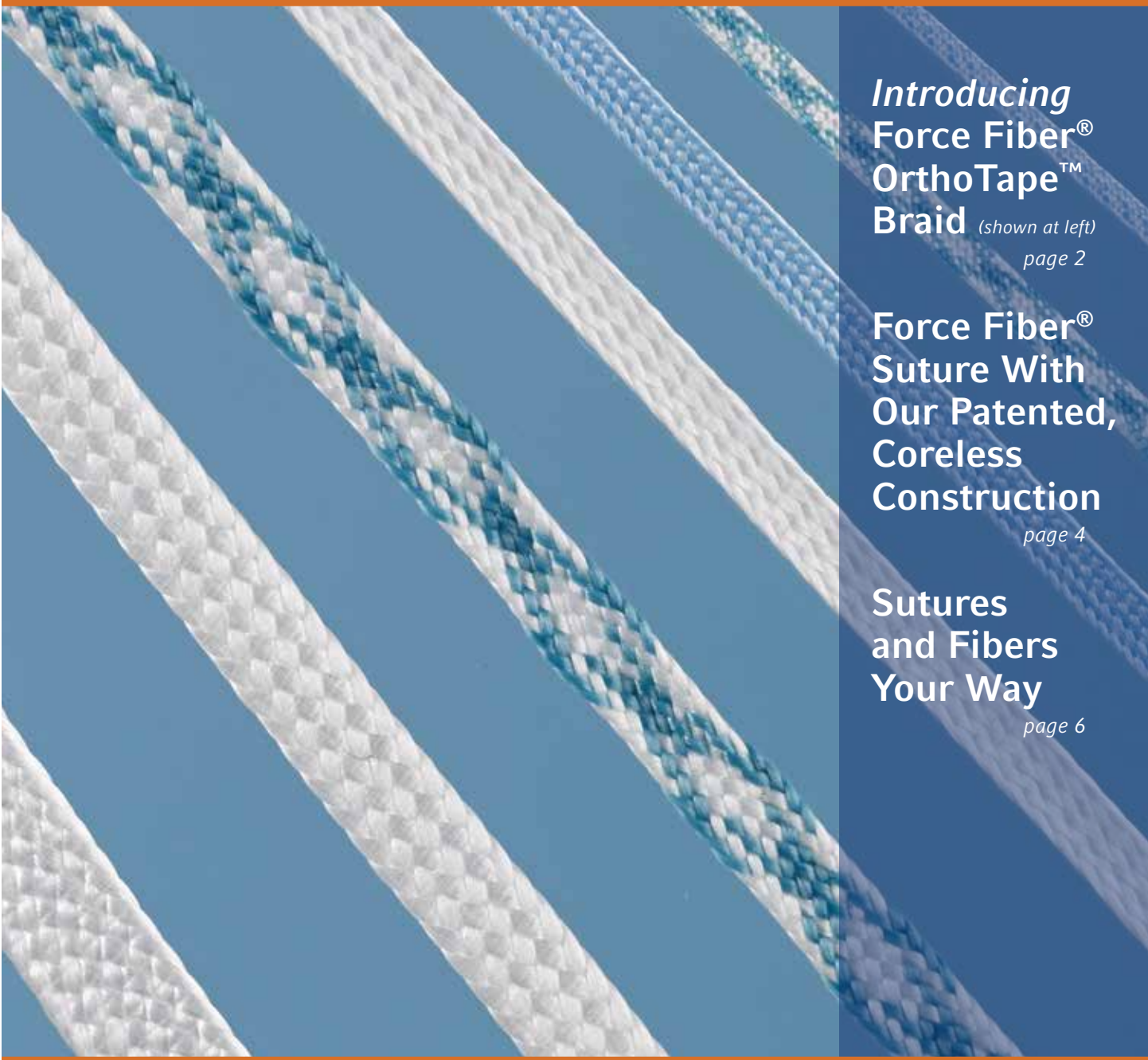


# Force Fiber<sup>®</sup> OrthoTape<sup>™</sup> Braid Force Fiber<sup>®</sup> Suture



*Introducing*  
**Force Fiber<sup>®</sup>  
OrthoTape<sup>™</sup>  
Braid** *(shown at left)*  
*page 2*

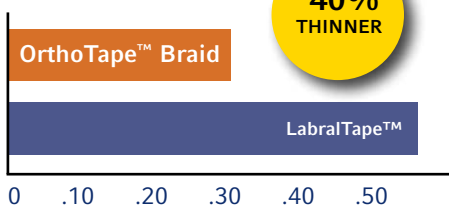
**Force Fiber<sup>®</sup>  
Suture With  
Our Patented,  
Coreless  
Construction**  
*page 4*

**Sutures  
and Fibers  
Your Way**  
*page 6*

Low Profile. Broad Footprint. Ultra Strong, Yet Gentle.  
Our Tape's Performance Characteristics: Outstanding!

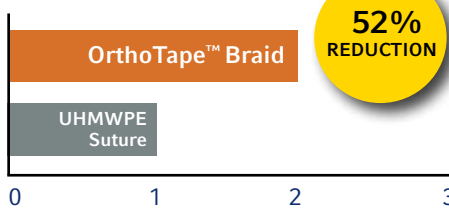
# Force Fiber® OrthoTape™ Braid

## TAPE HEIGHT (MM)



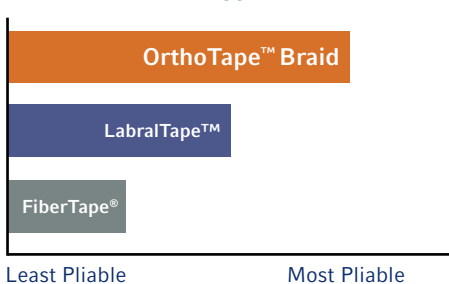
Force Fiber® OrthoTape™ Braid has a lower profile than competitor product.\*\*

## PULL THROUGH (LBS)



Force Fiber® OrthoTape™ Braid won't pull through as easily as a round suture.\*\*

## PLIABILITY RANKINGS



Force Fiber® OrthoTape™ Braid is more pliable than competitors' products.\*\*

## OUTSTANDING PERFORMANCE CHARACTERISTICS

- OrthoTape™ Braid is flatter than similar tapes on the market.\*\* In fact, its profile is 40% thinner!
- The braid gently contours and lays flat against the surface.
- OrthoTape™ Braid will not pull through tissue or bone as easily as suture of similar size and composition. It is ideal for applications where tissue pull-through may be a concern.
- Force Fiber® OrthoTape™ Braid has a broad footprint for a uniform level of pressure over the surface area.

## STRONGER THAN SUTURE

- OrthoTape™ Braid is prepared from ultra-high molecular weight polyethylene (UHMWPE) fiber that is strong, durable, and pliable.
- The braid is stronger than suture of a similar size and material.\*\*
- The braid has a silk-like feel that is gentle on tissue and gloves.

## INDICATION

- Sterile Force Fiber® OrthoTape™ Braid is cleared in the USA for approximation and/or ligation of soft tissue, including the use of allograft tissue for orthopedic procedures.
- Force Fiber® OrthoTape™ Braid is cleared for USA marketing under a 510(k) as a Class II device.

## MULTIPLE WIDTH, COLOR, AND PATTERN OPTIONS

- OrthoTape™ Braid is available in a variety of widths ranging from 1mm to 5mm.
- Multiple color and pattern options, including criss cross and tracer strands, allow easy identification during the procedure.
- Custom patterns can be developed for your application.

## CONFIGURATIONS

- Non-Sterile
  - Spools (250 yards)
  - Cut lengths (tipped, heat-stiffened)
  - Needled
- Sterile
  - Cut lengths (tipped, heat-stiffened)
  - Needled

\*\*Testing conducted on size 1.5mm OrthoTape™ Braid against comparable products in sterilized form. Data on file.

Sizes	1mm	1.5mm	2mm	2.5mm	3.5mm	4mm	5mm	
Average Width	0.70 - 1.10mm	1.30 - 1.60mm	1.70 - 2.00mm	2.10 - 2.70mm	3.20 - 3.60mm	3.40 - 4.10mm	4.50 - 5.40mm	
Average Height	0.08 - 0.45mm	0.12 - 0.52mm	0.26 - 0.60mm	0.10 - 1.00mm	0.23 - 1.12mm	0.40 - 1.40mm	0.40 - 1.80mm	
Average Min. Knot Pull	≥ 10 lbs	≥ 14 lbs	≥ 20 lbs	≥ 28 lbs	≥ 34 lbs	≥ 120lbs*	≥ 150 lbs*	
<b>Solids</b>								
White	■	■	■	■	■	■	■	Undyed UHMWPE
Blue	■	■	■					Blue-dyed UHMWPE
<b>Multi-Colored</b>								
White/Blue		■						Cobraid of undyed and blue UHMWPE
White/Green		■	■	■	■			Cobraid of undyed UHMWPE and green polyester (PET)
<b>Patterns</b>								
Criss-Cross or Tracer Strands		■	■	■	■			Custom patterns evaluated upon request
<b>Configurations</b>								
Spools, 250 yards	■	■	■	■	■	■	■	• Non-sterile
Cut Length, Tipped	■	■	■	■				• Non-sterile or sterile • With or without needles
Cut Length, Heat Stiffened	■	■	■					• Non-sterile or sterile • With or without needles

\*Pass/fail test

*Durable. Pliable. Lubricious. Non-Abrasive. Strong...Very Strong.  
That's Force Fiber® Suture!*

# Force Fiber® Suture

## LAYS RIGHT/TIES RIGHT

- Patented, coreless braid configuration, developed by Teleflex Medical OEM, creates a pliable, easy-to-handle suture.
- Force Fiber® Suture allows tighter loop security during the tying process and superior knot break strength.\*
- The suture's low knot profile allows precise knot placement and a smooth tie down.
- The lubricious suture is flexible, nonabrasive, and has a silk-like feel that is gentle on tissue and gloves.

## PROVEN TO BE STRONG

- Force Fiber® Suture is prepared from an ultra-high molecular weight polyethylene (UHMWPE) material that is incredibly strong and durable.

- The suture significantly outperforms polyblend suture of comparable size for straight tensile and knot tensile strength.\*

## INDICATION

- Sterile Force Fiber® Suture is cleared in the USA and registered in Canada for approximation and/or ligation of soft tissue, including use in cardiovascular surgeries and the use of allograft tissue for orthopedic procedures.\*\*
- Force Fiber® Suture cleared for USA marketing under multiple 510(k)s as a Class II device. The suture is also CE marked for orthopedic indications as a Class IIb device for distribution in the European Union; registered as a Class III device in Canada.

## MULTIPLE SIZE, COLOR, AND PATTERN OPTIONS

- Multiple color and pattern options make Force Fiber® Suture ideal for complex, multi-strand procedures where better visibility and suture differentiation is a must.

## CONFIGURATIONS

- Nonsterile: 500 yard spools or cut lengths
- Sterile: Cut lengths and private label
- Cut lengths with or without tipping (*sterile private label and bulk non-sterile*)
- Cut lengths with attached needles (*sterile private label and bulk non-sterile*)
- Preloaded in assembled medical devices

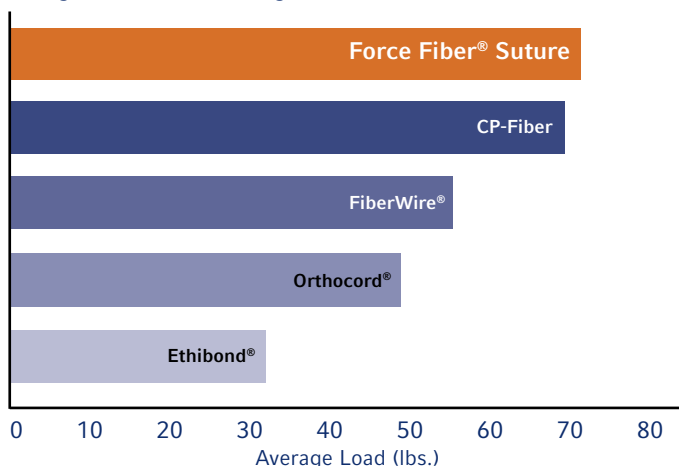
*Please note:*

\*Testing conducted on size 2, white Force Fiber® Suture against comparable suture in sterilized form. Data on file.

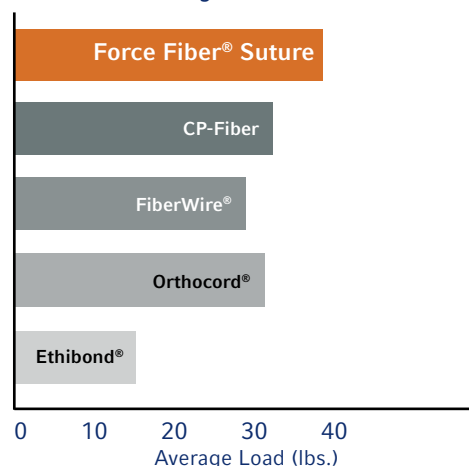
\*\*Sterile Force Fiber® Suture is contraindicated in the European Union for cardiovascular use.

## STRENGTH OF FORCE FIBER® SUTURE

### Straight-Pull Tensile Strength\*



### Knot Tensile Strength\*



USP Sizes	5-0	4-0	3-0	2-0	0	1	2	3/4	5	
<b>Solids</b>										
Blue					■	■	■			
White	■	■	■	■	■	■	■	■	■	
<b>Multi-Colored</b>										
Green					■	■	■			Green is a cobraid of UHMWPE and polyester
Green/White							■			Green/White is a cobraid of UHMWPE and polyester
White/Blue	■	■	■	■	■	■	■	■	■	White/Blue is a cobraid of UHMWPE and blue polypropylene
White/Black	■	■	■	■	■	■	■	■	■	White/Black is a cobraid of UHMWPE and black nylon 6,6
White/Green					■	■	■			White/Green is a cobraid of UHMWPE and polyester

*Vertically Integrated Capabilities. Deep Expertise. Decades of Experience.  
We are Your Total Resource for Custom Sutures and Fibers.*

# Work With The Experts™

## **INNOVATION LIVES HERE**

Make your suture or fiber-based product concept a reality with Teleflex Medical OEM. We are one of the world's few, vertically integrated, full-line suture and fiber producers with the expertise and resources to customize product performance to your specific applications. Our ability to take your project from resin to fiber to component to suture to finished device makes Teleflex Medical OEM a true single source solution.

## **EVERYTHING TO MAKE YOUR PROJECT A SUCCESS**

Teleflex Medical OEM has a history of innovation and technical expertise. We draw on our extensive range of materials (both absorbable and non-absorbable), sizes (USP/EP and custom), and coatings to meet your specific requirements for strength, flexibility, and handling. We also offer a large assortment of colors and patterns that allows for enhanced visibility and differentiation. In addition, our expertise at modifying PIC counts allows the design of advanced constructs.

## **THERE IS ONE WORD FOR OUR INTEGRATED CAPABILITIES: COMPREHENSIVE**

Teleflex Medical OEM has what you need for each critical phase of product development and manufacturing, including:

- Product concept development
- Engineering
- Design for manufacture
- Regulatory affairs
- Material selection
- Prototyping
- Testing and validation
- Production process development
- Custom tooling
- Manufacturing, both small and large scale volumes
- Finishing operations
- Assembly
- Packaging
- Private labeling
- Sterilization

## **OUR EXPERT TEAM WORKS WITH YOU EVERY STEP OF THE WAY**

Our expert team of highly-qualified engineers, material and polymer experts, PhD scientists, and skilled technicians makes Teleflex Medical OEM stand above the rest. We can polymerize, extrude, braid, and tip in-house. In addition, we can develop unique compounds and coatings. Many projects incorporate proprietary materials and our unique braid constructions for greater tensile strength, increased lubricity, and outstanding knot break strength.

## **LET'S GET TO WORK ON YOUR NEXT PROJECT**

You can count on Teleflex Medical OEM to enhance your design, utilize the latest technologies and materials, guide you through the maze of global regulations, and scale up for manufacturing. Teleflex Medical OEM offers you a true, full service partnership with the vertically integrated resources to get your project off the drawing board and into the market.

## EXPLORE OUR PORTFOLIO OF SUTURES, TAPES, AND YARNS

### Absorbable Sutures

- Bondek® Plus braided suture of Polyglycolic Acid (PGA)
- Monodek® monofilament suture of Polydioxanone (PDO)

### Non-Absorbable Sutures

- Cottony™ II braided suture of Polyester (PET)
- Deklene® II monofilament suture of Polypropylene (PP)
- Force Fiber® Suture of braided Ultra-High, Molecular Weight Polyethylene (UHMWPE)
- Nylon monofilament suture of Nylon Type 6,6
- Polydek® braided suture of Polyester (PET), light coating
- Silk braided suture
- Tevdek® braided suture of Polyester (PET), heavy coating

### Non-Absorbable Tape

- Force Fiber® OrthoTape™ Braid of Ultra-High, Molecular Weight Polyethylene (UHMWPE)

### Bioresorbable Yarns

- Polyglycolic Acid (PGA)
- Poly-L-Lactic Acid (PLLA)
- Polyglycolic Acid-Co-Poly-L-Lactic Acid (PGLA)

## ABOUT TELEFLEX

Teleflex Medical OEM is a division of Teleflex Incorporated — a global provider of specialty medical devices for a range of procedures in critical care, urology, and surgery. Our mission is to provide solutions that enable healthcare providers to improve outcomes and enhance patient and provider safety. Headquartered in Wayne, PA, Teleflex employs approximately 12,400 people and serves healthcare providers worldwide. For additional information, visit [www.teleflex.com](http://www.teleflex.com) or [www.teleflexmedicaloem.com](http://www.teleflexmedicaloem.com).

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Force Fiber<sup>®</sup>  
Suture With  
Our Patented,  
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*(shown at left)*  
page 4

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Braid

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Sutures  
and Fibers  
Your Way

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