FiberWire® suture is constructed of a multi-strand, long chain ultra-high molecular weight polyethylene (UHMWPE) core with a braided jacket of polyester and UHMWPE that gives FiberWire superior strength, soft feel and abrasion resistance that is unequaled in orthopaedic surgery. Suture breakage during knot tying is virtually eliminated, which is especially critical during arthroscopic procedures.

**Strength**
FiberWire has greater strength than comparable size standard polyester suture. Multiple independent scientific studies document significant increases in strength-to-failure, stiffness, knot strength and knot slippage with much less elongation1.

(References on pg. 6)

**Biocompatibility**
Extensive biocompatibility, animal and clinical testing prove that FiberWire demonstrates biocompatibility characteristics equivalent to standard polyester suture. Over ten years of successful clinical outcomes in several million orthopaedic procedures substantiate excellent biocompatibility. Biocompatibility, strength and testing results are available upon request2.

**Abrasion Resistance**
The multi-strand long chain ultra-high molecular weight polyethylene core dramatically increases FiberWire abrasion resistance. Surgical procedures that create bone edges, tunnel edges, and articulating surface abrasion areas are appropriate indications for FiberWire. FiberWire is more than five times more abrasion resistant than standard polyester suture.

**Variety**
The FiberWire family range in sizes 4-0 through #5, including designs such as FiberStick, FiberSnare, FiberTape, LabralTape and TigerTail that provide innovative solutions to arthroscopic suture passing. TigerWire has a black spiral thread for easier arthroscopic visualization, identification, sizing and motion detection. FiberLoop is ideal for multi-strand tendon repairs.

**Tie Ability and Knot Profile**
Orthopaedic surgeons enthusiastically endorse FiberWire for its feel and knot tying ability. The first throw stays down, facilitating reproducible tissue repair. Sliding knots advance smoothly easing arthroscopic knot tying procedures. Superior strength allows tighter loop security during knot tying, increasing knot integrity while reducing the knot profile compared to standard polyester suture.

**Safety in Numbers**
Trusted by leading orthopaedic surgeons worldwide since its introduction in 2001, FiberWire has contributed to successful surgical outcomes in a quarter of a billion orthopaedic procedures ranging from Achilles tendon repair to rotator cuff repair. Multiple scientific publications have confirmed the advantages of FiberWire in orthopaedic surgery3,4.
FiberWire

FiberWire suture has greater strength than similarly sized polyester suture with superior feel, smooth tie ability and lower knot profile. FiberWire is the ideal suture for most orthopaedic soft tissue repairs, virtually eliminating suture breakage during knot tying.

#5 FiberWire, 38 inches (blue) AR-7210
#5 FiberWire, 38 inches (blue) w/Conventional Cutting Needle, 48 mm 1/4 circle AR-7211
#5 FiberWire, 38 inches (blue) w/Conventional Cutting Needle, 48 mm 1/4 circle, and Tapered Needle, 26.5 mm 1/4 circle AR-7212
#2 FiberWire, 38 inches (blue) w/Tapered Needle, 26.5 mm 1/4 circle AR-7213
#2 FiberWire, 38 inches (blue) w/Tapered Needle, 26.5 mm 1/4 circle, collagen coated AR-7200B
#2 FiberWire, 38 inches (blue) w/Reverse Cutting Needle, 36.6 mm 1/4 circle AR-7202
#2 FiberWire, 38 inches (blue) w/two Tapered Needles, 26.5 mm 1/2 circle AR-7205
#2 FiberWire, 38 inches (blue) w/Tapered Needle, 26.5 mm 1/2 circle, and Tapered Needle, 26.5 mm 1/2 circle AR-7206
#2 FiberWire, 38 inches (blue) w/Tapered Needle, 26.5 mm 1/2 circle, collagen coated AR-7208
#2 FiberWire, 38 inches (3 blue, 1 white, 1 white/black) AR-7208
#2 FiberWire, 38 inches (1 blue, 1 white/black) AR-7214
#2 FiberWire, 38 inches (blue) AR-7217
#2 FiberWire, 38 inches (blue) w/Diamond Point Needle, straight AR-7246
#2 FiberWire, 38 inches (blue) w/Diamond Point Needle, straight AR-7246-02
#2 FiberWire, 38 inches (blue) AR-7223
#2 FiberWire, 38 inches (blue) AR-7223
#2 FiberWire, 38 inches (blue) AR-7221
#2 FiberWire, 38 inches (blue) AR-7220
#0 FiberWire, 38 inches (blue) AR-7275
#0 FiberWire, 38 inches (blue) AR-7250
#0 FiberWire, 38 inches (blue) AR-7251
2-0 FiberWire, 18" (blue) w/Tapered Needle, 17.9 mm 1/4 circle AR-7220
2-0 FiberWire, 18" (blue) AR-7221
2-0 FiberWire, 18" (blue) w/Tapered Needle, 17.9 mm 1/4 circle AR-7220
3-0 FiberWire, 18" (blue) w/Diamond Point Needle, 26.2 mm 1/4 circle AR-7225
3-0 FiberWire, 18" (blue) w/Tapered Needle, 15 mm 1/4 circle AR-7227-01
3-0 FiberWire, 18" (blue) w/Reverse Cutting Needle, 16.3 mm 1/4 circle AR-7227-02
4-0 FiberWire, 18" (blue) w/Diamond Point Needle, 18.7 mm 1/4 circle AR-7228
4-0 FiberWire, 18" (blue) w/Tapered Needle, 12.3 mm 1/4 circle AR-7230-01
4-0 FiberWire, 18" (blue) w/Reverse Cutting Needle, 11.9 mm 1/4 circle AR-7230-02
4-0 FiberWire, 18" (white) w/Tapered Needle, 12.7 mm 1/2 circle AR-7248

TigerWire

TigerWire suture uses the same high strength construction as FiberWire except that it contains a black marker strand in the suture weave. This strand appears as a stripe in the suture, making suture identification easier during joint reconstruction and soft tissue repairs.

#2 FiberWire, 38" (blue, white/black) AR-7201
#2 TigerWire, 38" (white/black) AR-7203
#2 TigerWire, 38" (blue/black) w/two Tapered Needles, 26.5 mm 1/2 circle AR-7205T
#2 FiberWire, 38" (1 white, 1 blue/black) AR-7240
#1 TigerWire, 38" (white/black) AR-7216

FiberStick™ and TigerStick®

The stiffened end of FiberStick and TigerStick sutures allows convenient and easy advancement through most cannulated instruments or spinal needles, alleviating the need for a monofilament suture or wire suture shuttle. FiberStick and TigerStick come with a thin plastic tube that protects the stiffened suture end until use.

FiberStick, #2 FiberWire, 50" (blue) one end stiffened, 12" AR-7209
TigerStick, #2 TigerWire, 50" (white/black) one end stiffened, 12" AR-7209T
2-0 FiberStick, 2-0 FiberWire, 50" (blue) one end stiffened, 12" AR-7222

NeedlePunch™

FiberWire Loop w/Needle for NeedlePunch AR-7204
#2 FiberWire w/two Needles (for side-to-side cuff repairs) AR-7207
Suture Shuttle, (one to a pack/15 packs to a box) AR-7224
Suture Shuttle, Long (for thick tissue) (one to a pack/15 packs to a box) AR-7248L
FiberTape® and TigerTape®

FiberTape is an ultra-high strength 2 mm wide tape using a similar long chain polyethylene structure as the FiberWire suture. In addition to high-demand applications like AC joint reconstruction, the broad footprint of the FiberTape is appropriate for repairs in degenerative cuff tissue where tissue pull-through may be a concern.

**FiberTape**, 2 mm, 36” (blue) each end tapered to #2 FiberWire AR-7237

**FiberTape**, 2 mm, 7” (blue) each end tapered to #2 FiberWire AR-7237-7

**FiberTape**, 2 mm, 7” (blue) each end tapered to #2 FiberWire, collagen coated AR-7237-7B

**FiberTape**, 2 mm, 17” (blue) each end tapered to #2 FiberWire w/Tapered Needle, 26.5 mm ½ circle AR-7237-17N

**TigerTape**, 2 mm, 7” (white/black) each end tapered to #2 FiberWire AR-7237-7T

**FiberTape Loop**, 2 mm, 8” (blue), tapered to #2 FiberWire AR-7275

**TigerTape Loop**, 2 mm, 8” (white/black), tapered to #2 TigerWire, 76 mm needle w/7 mm loop AR-7275T

**FiberLoop®**

FiberLoop is a suture option for multi-strand tendon repairs. These small diameter looped FiberWire products, in 12- and 20-inch lengths, allow for strong multi-strand flexor and extensor tendon repairs while reducing tendon damage from multiple needle passes. FiberLoop is available with 17.9 mm tapered needles to prevent cutting suture while stitching.

**#2 FiberLoop w/Straight Needle, 20” (blue), 76 mm needle w/7 mm loop**, collagen coated AR-7234B

**#2 FiberLoop w/Straight Needle, 20” (white), 76 mm needle w/7 mm loop** AR-7234-01

**#2 TigerLoop w/Straight Needle, 20” w/TigerWire (white/green), 76 mm needle w/7 mm loop** AR-7234AT

**#2 FiberLoop w/Curved Needle, 20” (blue), ½ circle** AR-7234C

**#2 FiberLoop w/Straight Needle, 13” (blue), 76 mm needle w/7 mm loop** AR-7253

**#2 FiberWire w/Straight Needle, 13” (white/black), 76 mm needle w/7 mm loop** AR-7253T

**#2 FiberLoop, 30” (blue) w/Diamond Point Needle, 48 mm ½ circle** AR-7232-01

**#2 FiberLoop, 24” (blue) w/Diamond Point Needle, 26.2 mm ½ circle** AR-7232-02

**#2 FiberLoop, 13” (blue) w/Diamond Point Straight Needle, 64.8 mm** AR-7232-03

**#4 FiberWire, 6” (white) w/Tapered Needle, 12.7 mm ½ circle** AR-7249-12

**#4 FiberLoop, 10” (white) w/Tapered Needle, 17.9 mm ½ circle** AR-7249-20

**#4 FiberLoop, 10” (blue) w/Tapered Needle, 17.9 mm ½ circle** AR-7229-20

FiberSnare®

FiberSnare with a closed loop provides an easy one-step approach to creating a FiberWire loop on the tip of the Bio-Tenodesis Driver. The FiberSnare can also be used as a suture shuttle for passage of traction sutures through bone tunnels.

**#2 FiberSnare, #2 FiberWire, 26 inches (green)** AR-7209SN

w/¾ inch closed loop, 12 inches stiffened

Collagen Coated FiberWire

Collagen Coated FiberWire has taken some of the popular FiberWire products and coated them with a Type-1 bovine collagen. This offers our superior mechanical performance along with a softer coating for improved handling characteristics. These sutures are ideal for all knotted and knotless repairs.

**#2 FiberWire, 38 inches (blue) w/Tapered Needle, 26.5 mm ½ circle, collagen coated** AR-7200B

**76 mm Needle w/7 mm Loop, collagen coated** AR-7234B

**FiberTape, 2 mm, 7 inches (blue) tape w/each end tapered to #2 FiberWire, 30 inches, collagen coated** AR-7237-7B

LabralTape™

LabralTape is a smooth, low profile, 1.5 mm specialty tape that is made from polyethylene. This product provides a wider footprint and is 37 percent more resistant to tissue tear-through vs. a #2 suture. LabralTape is the ideal suture for the restoration of labral height in instability repairs.

**LabralTape**, 1.5 mm, 36 inches (white) AR-7276

**LabralTape**, 1.5 mm, 36 inches (white/black) AR-7276T

FiberLink™

The closed loop on FiberLink is designed to facilitate the application of a cinch stitch by simply passing the suture through tissue and feeding the free end through the loop and tensioning. The loop length will ensure the loop fully encapsulates the tissue prior to tapering down to the single strand.

**FiberLink**, #2 FiberWire, 26” (blue), w/closed loop AR-7235

**TigerLink**, #2 FiberWire, 26” (white/black), w/closed loop AR-7235T
**FiberChain**

FiberChain is a single strand #2 FiberWire suture that transitions to chain links of interwoven FiberWire. It is intended for use with SwiveLock® anchors.

FiberChain, #2 FiberWire w/ten 7 mm long loops (required w/Swivelock) AR-7270

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**2-0 FiberWire Meniscus Repair Needles**

2-0 FiberWire with Meniscus Needles is an excellent option for standard outside/in meniscus repair. The swedged-on FiberWire suture enables the surgeon to efficiently slide low profile knots, while creating the strongest suture repair possible. The stainless steel meniscal needles easily pass through meniscal and soft tissues.

2-0 FiberWire Meniscus Repair Needles AR-7223
2-0 FiberWire Meniscus Repair Needles, small AR-7223SM

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**FiberWire Suture Kit**

The FiberWire Suture Kit is available for larger complex soft tissue approximation procedures. This kit contains a total of 18 sutures including three different colored versions of #5 FiberWire for easy suture differentiation, large cutting Spring Eye Free Needles, and #2 FiberWire in one convenient package.

FiberWire Suture Kit AR-7219

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**Knot Security**

_Average Force (N) Causing 3 mm Loop Displacement - #2 Suture_

**Suture Products**

_Data on file_

**Knot Strength Comparison**

_Peak Load in KG Force (average)_

*ETHIBOND EXCEL* is a registered trademark of Johnson & Johnson

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Suture Cutters

The Suture Cutter’s precision jaws prevent knot cutting by leaving a length of reproducible suture tail, 3 mm for the 4.2 mm outer diameter cutter and 1 mm for the 2.75 mm outer diameter cutters, without direct visual control. The blunt tip of the cutter is excellent for knot pushing.

The open-ended Suture Cutter was designed to speed up the suture cutting process. This cutter allows for quick and efficient suture tail cutting under direct visual control through the same or alternate cannula or portal. The notch on the side of the cutter tip automatically guides the suture tails into the front cutting slot for an accurate cut from any angle.

The FiberTape Cutters were designed to cut two strands of FiberTape flush to the anchor site without direct visual control.

FiberWire Scissor

The FiberWire Scissor was designed to cut any size or style suture, especially FiberWire, in open surgical cases where an arthroscopic Suture Cutter is not necessary. With its specially designed cutting edges, it can cut FiberWire cleanly and effortlessly without frayed edges. The color-coded handle facilitates instrument differentiation in large instrument packs.

Knot Pushers

The Single-Hole Knot Pusher provides a simple method to advance sliding knots and half-hitches. The closed end Knot Pusher has a modified handle that provides an ergonomic feel. The distal tip has also been modified for easier advancement of slip knots and half-hitches.

6th Finger Knot Pusher

The unique double tube design allows the surgeon to apply and maintain tension to the first throw, while advancing subsequent throws with the sliding plastic outer tube. The inner tube allows subsequent “past pointing” to apply opposite suture tension to the knot similar to open knot tying techniques. A wire loop is incorporated inside the disposable, sterile 6th Finger Knot Pusher for easy suture loading.

References:
2. FiberWire: Collective Summary of Strength and Biocompatibility Testing Data Comparisons of Polyester and Polyblend Sutures, study presented from in-house testing, 2001; LA0235
<table>
<thead>
<tr>
<th>Size</th>
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<th>Needle Descriptions</th>
<th>Needle Dimensions</th>
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