Revolutionizing Orthopaedic Surgery

FiberWire
Braided Composite Suture
FiberWire suture is constructed of a multi-stranded 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, especially critical during arthroscopic procedures. FiberWire represents a major advancement in orthopaedic surgery.

**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 elongation.

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

**Tie Ability and Knot Profile**
Orthopaedic surgeons enthusiastically endorse FiberWire for its feel and knot tie 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.

**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 over five times more abrasion resistant than standard polyester suture.

**Variety**
The FiberWire family has expanded to sizes 4-0 through #5 including new designs such as FiberStick and FiberSnare 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 multistrand tendon repairs.

**Safety in Numbers**
Trusted by leading orthopaedic surgeons worldwide since its introduction in 2002, FiberWire has contributed to successful surgical outcomes in over one million orthopaedic surgical procedures ranging from Achilles tendon repair to rotator cuff repair. Multiple scientific publications have confirmed the advantages of FiberWire in orthopaedic surgery.

References on the inside back cover...
FiberWire

FiberWire is a multi-stranded long chain ultra-high molecular weight polyethylene (UHMWPE) suture. FiberWire has greater strength than similar 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” (blue) AR-7210
#5 FiberWire, 38” (blue) w/Conventional Cutting Needle, 48 mm 1/2 circle AR-7211
#5 FiberWire, 38” (blue) w/Conventional Cutting Needle, 48 mm 1/2 circle and Tapered Needle, 26.5 mm 1/2 circle AR-7213
#2 FiberWire, 38” (blue) w/Tapered Needle, 26.5 mm 1/2 circle AR-7200
#2 FiberWire, 38” (1 blue, 1 white/black) AR-7201
#2 FiberWire, 38” (blue) w/Reverse Cutting Needle, 36.6 mm 1/2 circle AR-7202
#2 FiberWire Loop w/Needle for NeedlePunch, 26“ (green), 10 mm, straight AR-7204
#2 FiberWire, 38” (blue) w/two Tapered Needles, 26.5 mm 1/2 circle AR-7205
#2 FiberWire, 38” w/Tapered Needle (blue), 36.6 mm 1/2 circle AR-7206
#2 FiberWire w/two Needles for NeedlePunch, 38 inches (blue) AR-7207
#2 FiberWire, 38” (1 blue, 1 white/black) w/Tapered Needle, 26.5 mm 1/2 circle AR-7208
FiberWire Suture Kit for SuturePlate, #2 FiberWire, 38” (1 blue, 1 white/black) w/Tapered Needle, 26.5 mm 1/2 circle AR-7214
FiberWire FastPack, #2 FiberWire (8 blue) w/Quick Release Needle, tapered 36.6 mm 1/2 circle AR-7231
#2 FiberWire, 38 inches (blue) AR-7233
0 FiberWire, 38” (blue) w/Tapered Needle, 22.2 mm 1/2 circle AR-7250
0 FiberWire, 38” (blue) w/Diamond Point Needle, 22.2 mm 1/2 circle AR-7251
4 FiberWire, 18” (blue) w/Tapered Needle, 17.9 mm 3/8 circle AR-7220
2 FiberWire, 38” (blue) AR-7221
2/4 Suture Shuttle Loop for NeedlePunch, 40 mm AR-7224
2 FiberWire, 18” (blue) w/Tapered Needle, 26.5 mm 1/2 circle AR-7242
3 FiberWire, 18” (blue) w/Diamond Point Needle, 26.2 mm 3/8 circle AR-7225
3 FiberWire, 18” (blue) w/Tapered Needle, 15 mm 3/8 circle AR-7227-01
3 FiberWire, 18” (blue) w/Reverse Cutting Needle, 16.3 mm 3/8 circle AR-7227-02
4 FiberWire, 18” (blue) w/Diamond Point Needle, 18.3 mm 3/8 circle AR-7228
4 FiberWire, 18” (blue) w/Tapered Needle, 12.3 mm 3/8 circle AR-7230-01
4 FiberWire, 18” (blue) w/Reverse Cutting Needle, 11.9 mm 3/8 circle AR-7230-02
4 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 inches (blue, white/black) AR-7203
#2 TigerWire, 38 inches (white/black) AR-7203
#2 TigerWire, 38 inches (white/black) w/two Tapered Needles, 26.5 mm 1/2 circle AR-7205T
FiberStick™ and TigerStick®

The stiff “waxed” end of the FiberStick and TigerStick 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 which protects the stiffened suture end until use.

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

**FiberTape® and TigerTape®**
FiberTape is an ultra-high strength 2 mm width 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 inches (blue) each end tapered to #2 FiberWire
- FiberTape, 2 mm, 7 inches (blue) each end tapered to #2 FiberWire
- TigerTape, 2 mm, 7 inches (white /black) each end tapered to #2 FiberWire

**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.

- 4-0 FiberLoop, 6" (white) w/Tapered Needle, 12.7 mm 1/2 circle
- 4-0 FiberLoop, 10" (white) w/Tapered Needle, 12.7 mm 1/2 circle
- 4-0 FiberLoop, 6" (blue) w/Tapered Needle, 17.9 mm 3/8 circle
- 4-0 FiberLoop, 10" (blue) w/ Tapered Needle, 17.9 mm 3/8 circle
- 2-0 FiberLoop, 30" (blue) w/Diamond Point Needle, 48 mm 1/2 circle
- 2-0 FiberLoop, 24" (blue) w/Diamond Point Needle, 26.2 mm 3/8 circle
- 2-0 FiberLoop, 30" (blue) w/Diamond Point Straight Needle, 64.8 mm
- 0 FiberLoop w/Straight Needle, 13" (blue), 76 mm needle w/7 mm loop
- #2 FiberLoop w/Straight Needle, 20 inches (blue), 76 mm needle w/7 mm loop
- #2 FiberLoop w/Straight Needle, 20 inches (blue) w/TigerWire (white/green), 76 mm needle w/7 mm loop

**FiberSnare®**
FiberSnare with closed loop provides an easy one step approach to creating a FiberWire loop on the tip of the Bio-Tenodesis Driver. Instead of using a nitinol wire, insert the stiff non-looped end retrograde through the tip of the Bio-Tenodesis Screwdriver. Place the tip of the tendon or tendon graft into the FiberWire loop and cinch the other end around the suture cleat on the back end of the blue Tear Drop Handle. The FiberSnare can also be used as a suture shuttle for passage of traction sutures through bone tunnels.

- FiberSnare, #2 FiberWire, 26" (green), stiffened w/closed loop, 12" AR-7209SN

**FiberChain™**
FiberChain is a single stranded #2 FiberWire suture strand that transitions to chain links of interwoven FiberWire. It is intended for use with the SwiveLock™ Suture Anchor.

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

**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
**FiberWire Suture Family**

**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  
2-0 FiberWire Meniscus Repair Needles, small  

**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  

**Knot Security**

**Average Force (N) Causing 3 mm Loop Displacement - #2 Size Suture**

<table>
<thead>
<tr>
<th>Suture Product</th>
<th>Data on file</th>
</tr>
</thead>
<tbody>
<tr>
<td>FiberWire</td>
<td></td>
</tr>
<tr>
<td>ORTHOCORD</td>
<td></td>
</tr>
<tr>
<td>Ethibond</td>
<td></td>
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<tr>
<td>Herculeine</td>
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<td>MaxBraid</td>
<td></td>
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<tr>
<td>UltraBraid</td>
<td></td>
</tr>
</tbody>
</table>

**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
**FiberWire Accessories**

**Suture Cutters**

The Suture Cutters were designed to facilitate arthroscopic suture cutting with specially designed cutting jaws, with and without visual control.

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. These cutters have a special locking device to prevent premature suture cutting.

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.

All Suture Cutters are recommended for cutting FiberWire.

- Suture Cutter, 4.2 mm, straight AR-12250
- Suture Cutter, 4.2 mm w/WishBone Handle, straight AR-12250W
- 2-0 Suture Cutter, 2.75 mm, straight AR-11790
- 2-0 Suture Cutter, 2.75 mm, 15° up curve AR-11791
- Suture Cutter, Open Ended, Left Notch AR-11794L
- Suture Cutter, open ended, left notch w/WishBone Handle AR-11794LW
- Suture Cutter, 4.2 mm w/WishBone Handle AR-12250W

**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.

- FiberWire Scissor AR-11796
- FiberWire Scissor, small AR-11797

**FingerShield™**

The FingerShield is a woven white polyester sleeve with an embedded radiopaque blue marker designed to reduce pressure induced lacerations to the digits of the hand caused by repetitive knot tying during surgical cases. They slip right over sterile gloves when needed. The tips are left open to allow pinch grasp of suture strands while still protecting the IP joint area of each digit. The soft, finger conforming weave will stand up to repetitive hand tying during a case without constraining the fingers. Suture slides over the FingerShield smoothly and effortlessly. There are two FingerShields per sterile pack.

- FingerShield, 2/pk AR-7199

**FiberWire Tensioner**

The FiberWire Tensioner provides controlled tensioning of FiberWire loops during knot tying when reapproximating soft tissue. The blunt tip keeps the knot in place while the tensioning wheel and spring mechanism gently tension the loop to tighten the repair. It is appropriate for use in conjunction with #5 FiberWire.

- FiberWire Tensioner AR-1929
- Suture Passing Wire AR-1255-18
- #5 FiberWire, 38 inches (blue) AR-7210
### FiberWire Needle Reference Chart

<table>
<thead>
<tr>
<th>Suture Size</th>
<th>Needle Dimensions</th>
<th>Reference No.</th>
<th>Cat. Number</th>
<th>Actual Size of Needles</th>
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</thead>
<tbody>
<tr>
<td>#5 (7 metric)</td>
<td>48 mm 1/2 circle</td>
<td>CCS-1</td>
<td>AR-7211</td>
<td>AR-7211 and AR-7213</td>
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<td>48 mm 1/2 circle &amp; 26.5 mm 1/2 circle</td>
<td>T-5 &amp; CCS-1</td>
<td>AR-7213</td>
<td>AR-7213, AR-7208, AR-7205, AR-7205T, AR-7208, and AR-7242</td>
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<td>26.5 mm 1/2 circle</td>
<td>T-5</td>
<td>AR-7200</td>
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<td>T-5</td>
<td>AR-7205</td>
<td>AR-7206 and AR-7207</td>
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<tr>
<td>#2 (5 metric)</td>
<td>26.5 mm 1/2 circle</td>
<td>T-5</td>
<td>AR-7205T</td>
<td>AR-7206 and AR-7207</td>
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<tr>
<td>#2 (5 metric)</td>
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<td>22.2 mm 1/2 circle</td>
<td>T-4</td>
<td>AR-7250</td>
<td>AR-7250</td>
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<tr>
<td>0 (3.5 metric)</td>
<td>22.2 mm 1/2 circle</td>
<td>D-10</td>
<td>AR-7251</td>
<td>AR-7251</td>
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<td>2-0 (3 metric)</td>
<td>17.9 mm 3/8 circle</td>
<td>T-13</td>
<td>AR-7220</td>
<td>AR-7220</td>
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<td>2-0 (3 metric)</td>
<td>26.5 mm 1/2 circle</td>
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<td>3-0 (2 metric)</td>
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<td>3-0 (2 metric)</td>
<td>16.3 mm 3/8 circle</td>
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<td>AR-7228</td>
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### FiberLoop

<table>
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<tr>
<th>Suture Size</th>
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<th>Reference No.</th>
<th>Cat. Number</th>
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