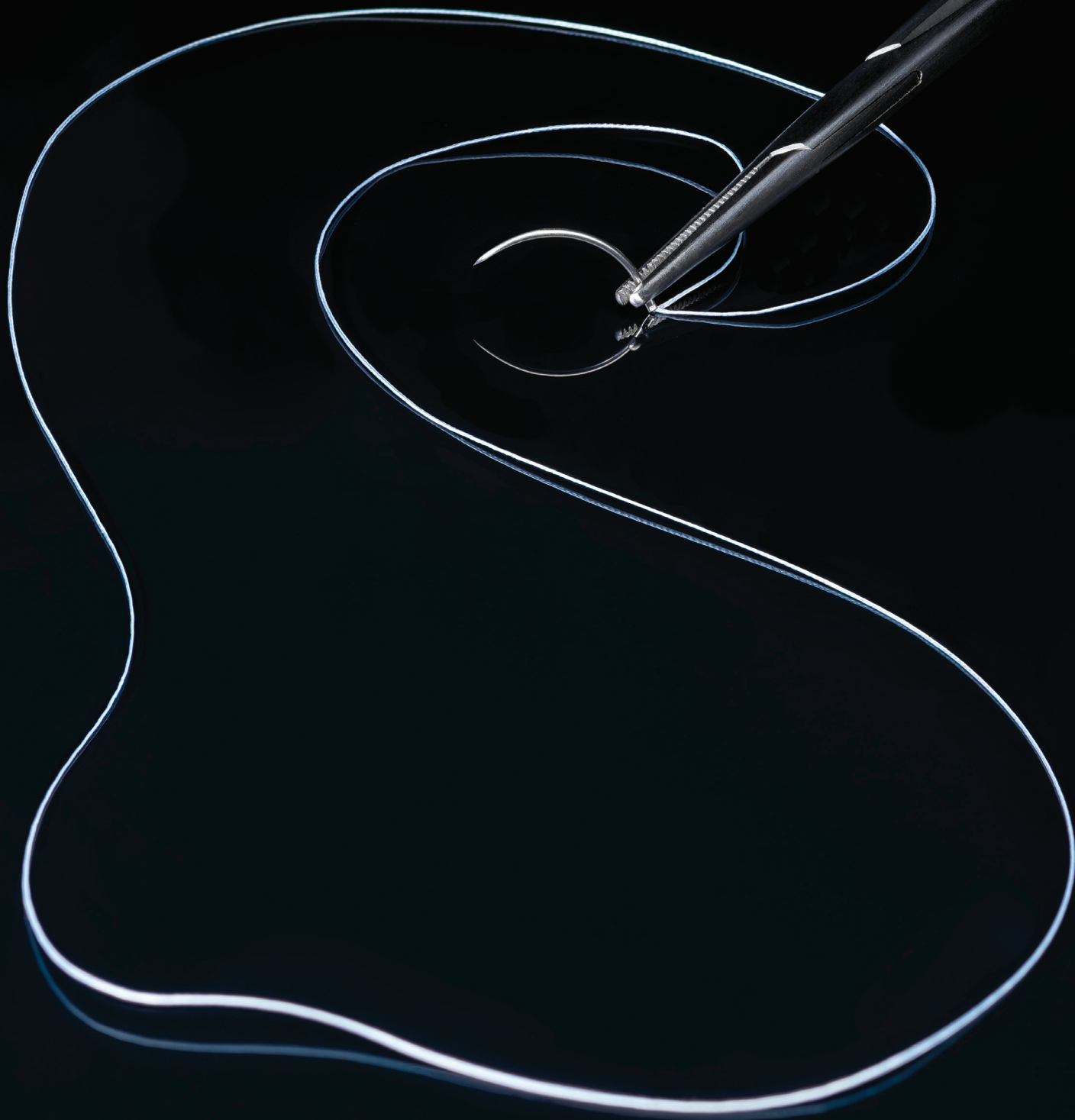


DISTAL EXTREMITIES

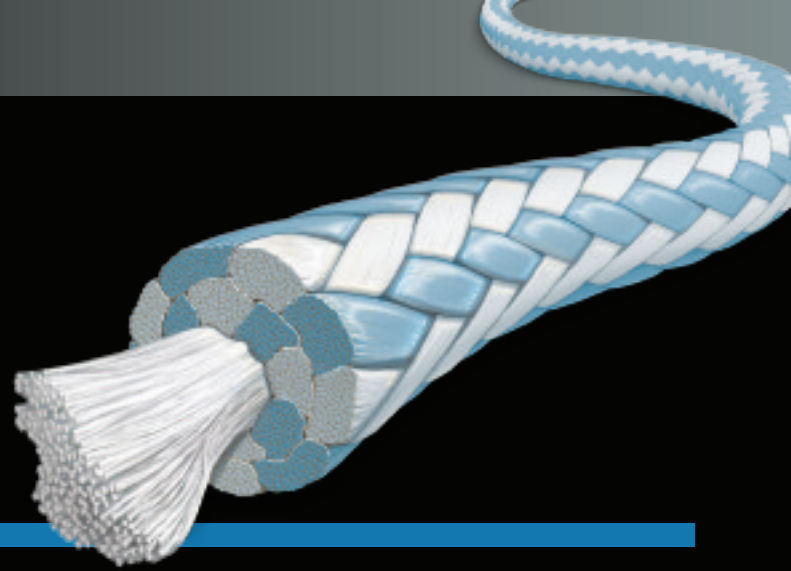
FiberWire[®]

Braided Composite Suture



REVOLUTIONIZING Orthopaedic Surgery

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 unequalled 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.

Biocompatibility

Extensive biocompatibility, animal and clinical testing shows 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

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.

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

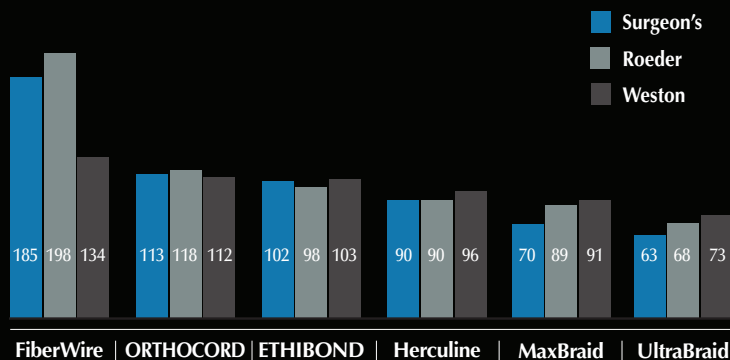
The FiberWire family range in sizes 4-0 through #5, including designs such as FiberStick, FiberSnare, FiberTape, LabralTape and TigerTail that provide innovative solutions to arthroscopic suture passing. TigerWire has a black spiral thread for easier arthroscopic visualization, identification, sizing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

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 surgery^{3,4}

Knot Security

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

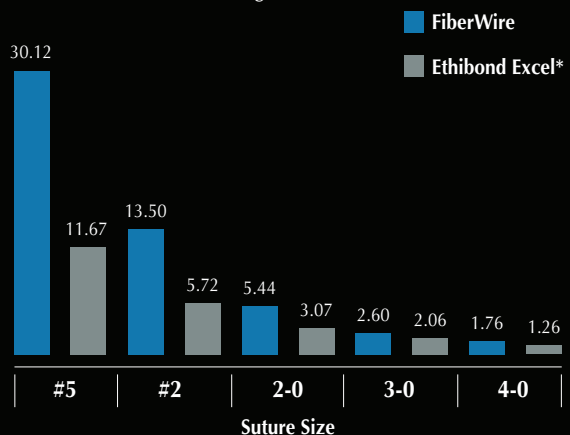


Suture Products

Data on file

Knot Strength Comparison

Peak Load in KG Force (average)



* ETHIBOND EXCEL is a registered trademark of Johnson & Johnson

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.

#1 FiberWire, 38 inches (blue)	AR-7216
0 FiberWire, 38 inches (white)	AR-7255
0 FiberWire, 38 inches (blue), w/Tapered Needle, 22.2 mm 1/2 circle	AR-7250
0 FiberWire, 38 inches (blue), w/Diamond Point Needle, 22.2 mm 1/2 circle	AR-7251
2-0 FiberWire, 18" (blue) w/Tapered Needle, 17.9 mm 3/8 circle	AR-7220
2-0 FiberWire, 38" (blue)	AR-7221
2-0 FiberWire, 18" (blue) w/Tapered Needle, 26.5 mm 1/2 circle	AR-7242
3-0 FiberWire, 18" (blue) w/Diamond Point Needle, 26.2 mm 3/8 circle	AR-7225
3-0 FiberWire, 18" (blue) w/Tapered Needle, 15 mm 3/8 circle	AR-7227-01
3-0 FiberWire, 18" (blue) w/Reverse Cutting Needle, 16.3 mm 3/8 circle	AR-7227-02
4-0 FiberWire, 18" (blue) w/Diamond Point Needle, 18.7 mm 3/8 circle	AR-7228
4-0 FiberWire, 18" (blue) w/Tapered Needle, 12.3 mm 3/8 circle	AR-7230-01
4-0 FiberWire, 18" (blue) w/Reverse Cutting Needle, 11.9 mm 3/8 circle	AR-7230-02
4-0 FiberWire, 18" (white) w/Tapered Needle, 12.7 mm 1/2 circle	AR-7248

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.

2-0 FiberStick, 2-0 FiberWire, 50" (blue) one end stiffened, 12"	AR-7222
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FiberWire Scissor

The FiberWire Scissor was designed to cut any size or style suture, especially FiberWire. Suture Cutter is not necessary. It cuts FiberWire cleanly and effortlessly without frayed edges.

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



FingerShield™

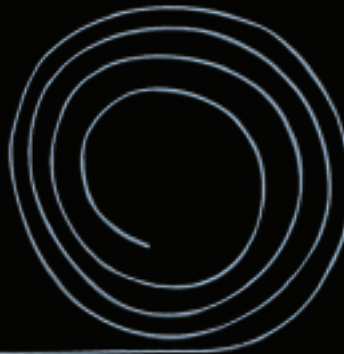
The FingerShield is a woven polyester sleeve with an embedded radiopaque blue marker designed to reduce pressure induced lacerations to the digits of the hand caused by repetitive knot tying during surgery. The tips are left open to allow pinch grasp of suture strands.

FingerShield, 2/pk	AR-7199
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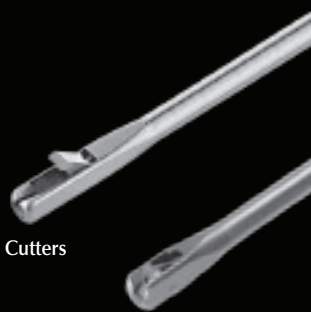
FiberLoop®

FiberLoop is a suture option for multi-strand tendon repairs. These small diameter looped FiberWire products allow for strong multi-strand flexor and extensor tendon repairs while reducing tendon damage from multiple needle passes.

0 FiberLoop w/Straight Needle, 13" (blue), 76 mm needle w/7 mm loop	AR-7253
0 TigerLoop w/Straight Needle, 13" (white/black), 76 mm needle w/7 mm loop	AR-7253T
2-0 FiberLoop, 30" (blue) w/Diamond Point Needle, 48 mm 1/2 circle	AR-7232-01
2-0 FiberLoop, 24" (blue) w/Diamond Point Needle, 26.2 mm 3/8 circle	AR-7232-02
2-0 FiberLoop, 13" (blue) w/Diamond Point Straight Needle, 64.8 mm	AR-7232-03
4-0 FiberLoop, 6" (white) w/Tapered Needle, 12.7 mm 1/2 circle	AR-7249-12
4-0 FiberLoop, 10" (white) w/Tapered Needle, 12.7 mm 1/2 circle	AR-7249-20
4-0 FiberLoop, 6" (blue) w/Tapered Needle, 17.9 mm 3/8 circle	AR-7229-12
4-0 FiberLoop, 10" (blue) w/Tapered Needle, 17.9 mm 3/8 circle	AR-7229-20



Suture Cutters



FiberTape Cutters

Suture Cutters












The Suture Cutter's precision jaws prevent knot cutting by leaving a length of reproducible suture tail, 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 FiberTape Cutters were designed to cut two strands of FiberTape flush to the anchor site without direct visual control.







2-0 Suture Cutter, 2.75 mm, straight	AR-11790
2-0 Suture Cutter, 15° up curve	AR-11791
Mini Suture Cutter, 3.4 mm, straight (used w/#2 FiberWire and LabralTape)	AR-13255
Mini Suture Cutter, 3.4 mm, straight w/WishBone Handle (used w/#2 FiberWire and LabralTape)	AR-13255W



FiberWire Needle Reference Chart

Suture Size	Needle Descriptions	Reference Number	Catalog Number	
0 (3.5 metric)	22.2 mm ½ circle	T-4	AR-7250	
0 (3.5 metric)	22.2 mm ½ circle	D-10	AR-7251	
0 (3.5 metric)	26.5 mm ⅝ circle	T-29	AR-7256	
2-0 (3 metric)	17.9 mm ⅜ circle	T-13	AR-7220	
2-0 (3 metric)	26.5 mm ½ circle	T-5	AR-7242	
3-0 (2 metric)	15 mm ⅜ circle	T-43	AR-7227-01	
3-0 (2 metric)	16.3 mm ⅜ circle	C-22	AR-7227-02	
3-0 (2 metric)	26.2 mm ⅜ circle	DE-14	AR-7225	
4-0 (1.5 metric)	11.9 mm ⅜ circle	C-17	AR-7230-02	
4-0 (1.5 metric)	12.3 mm ⅜ circle	T-12	AR-7230-01	
4-0 (1.5 metric)	18.7 mm ⅜ circle	DE-10	AR-7228	

FiberLoop Reference Chart

Suture Size	Needle Descriptions	Reference Number	Catalog Number	
0 (3.5 metric)	76 mm w/ 7 mm loop	-	AR-7253 and AR-7253T	
2-0 (3 metric)	48 mm ½ circle	D-17	AR-7232-01	
2-0 (3 metric)	26.2 mm ⅜ circle	DE-14	AR-7232-02	
2-0 (3 metric)	64.8 mm	SD-2	AR-7232-03	
4-0 (1.5 metric)	17.9 mm ⅜ circle	T-13	AR-7229-12 and AR-7229-20	
4-0 (1.5 metric)	12.7 mm ½ circle	T-22	AR-7249-12, AR-7249-20 and AR-7248	

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- Lo I KY, Burkhart SS, Chan KC, Athanasiou K, Arthroscopic Knots: The Optimal Balance of Loop Security and Knot Security, *Arthroscopy*, 2004; 20(5):489–502.
- FiberWire: Collective Summary of Strength and Biocompatibility Testing Data Comparisons of Polyester and Polyblend Sutures, study presented from in-house testing, 2001; LA0235
- Lo I KY, Burkhart SS, Biomechanical Principles of Arthroscopic Repair of the Rotator Cuff, *Operative Techniques in Orthopaedics*, 2002; 12(3):140–155.
- Deakin M, Stubbs D, Goldberg J, Bruce W, Gillies RM, Walsh WR, Effect of Suture Type, Anchor and Testing Orientation of the Static Properties of Suture Anchors, A Poster Presentation, #1536 (50th Annual Meeting of the Orthopaedic Research Society).



U.S. PATENT NOS. 6,716,234; 7,029,490; 7,147,651; 7,803,173; 8,012,172 and PATENTS PENDING.
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