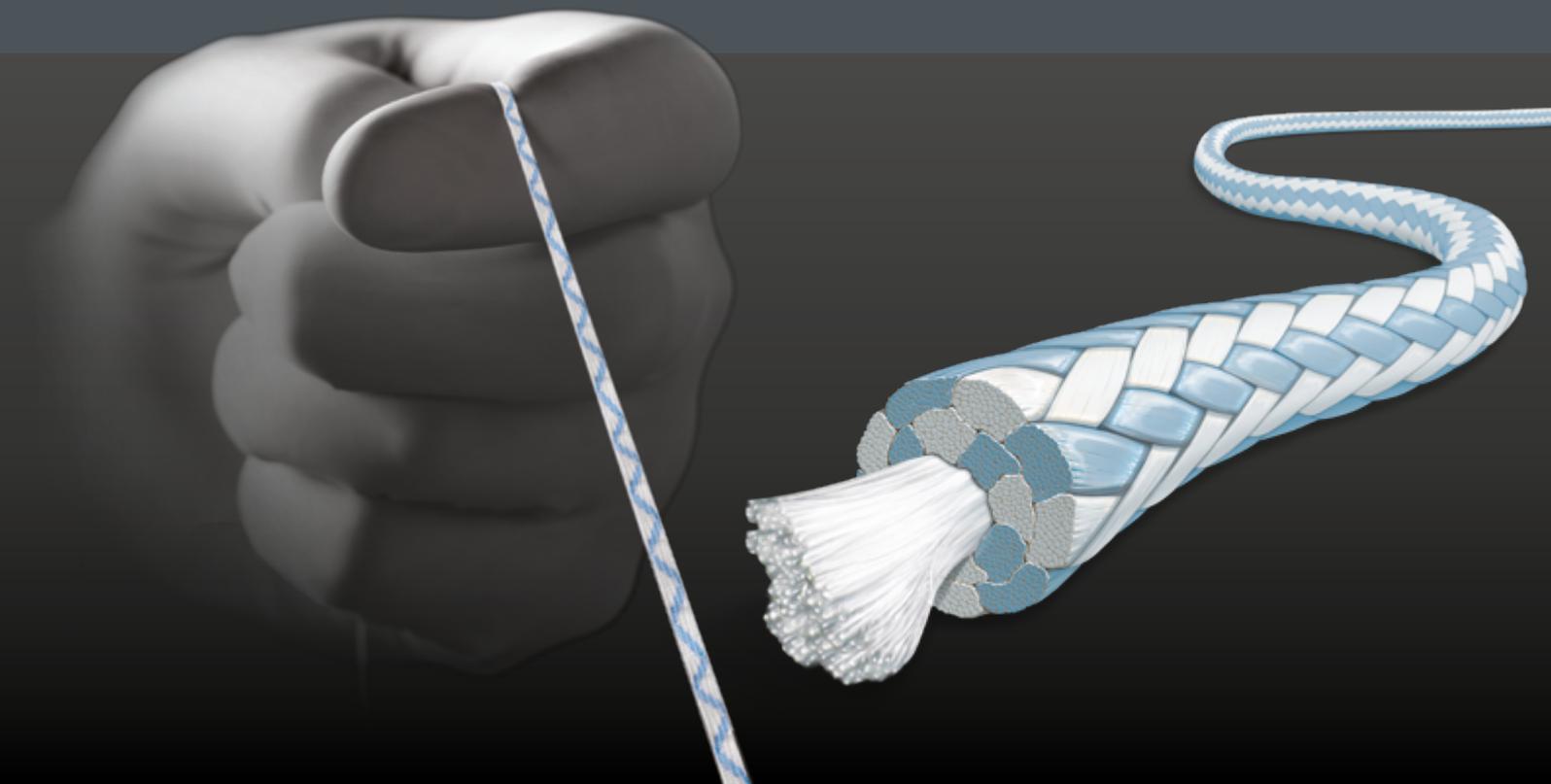


FiberWire® and FiberWire® Family

Braided Composite Suture



Arthrex® 

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Revolutionizing Orthopedic Surgery

FiberWire®

FiberWire®

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 orthopedic surgery. Suture breakage during knot tying is virtually eliminated, which is especially critical during arthroscopic procedures. FiberWire represents a major advancement in orthopedic surgery.



Revolutionizing Orthopedic Surgery

Knot Security

■ Strength

FiberWire has greater strength than comparably 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.¹

■ 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 orthopedic procedures substantiate excellent biocompatibility. Biocompatibility, strength and testing results are available upon request.²

■ Tieability and Knot Profile

Orthopedic 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 over five times more abrasion-resistant than standard polyester suture.

■ Variety

The FiberWire family has expanded to sizes #4-0 through #5, including 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 multi-strand tendon repairs.

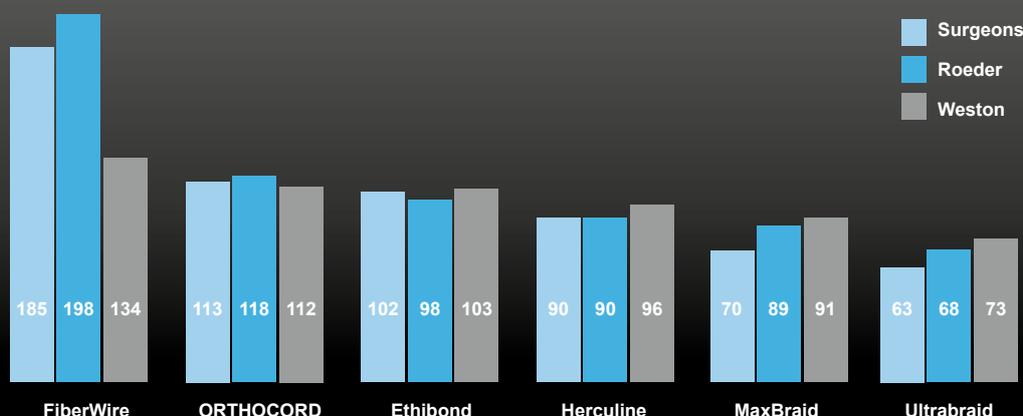
■ Safety in Numbers

Trusted by leading orthopedic surgeons worldwide since its introduction in 2002, FiberWire has contributed to successful surgical outcomes in several million orthopedic procedures ranging from Achilles tendon repair to rotator cuff repair. Multiple scientific publications have confirmed the advantages of FiberWire in orthopedic surgery.^{3,4}

Knot Security

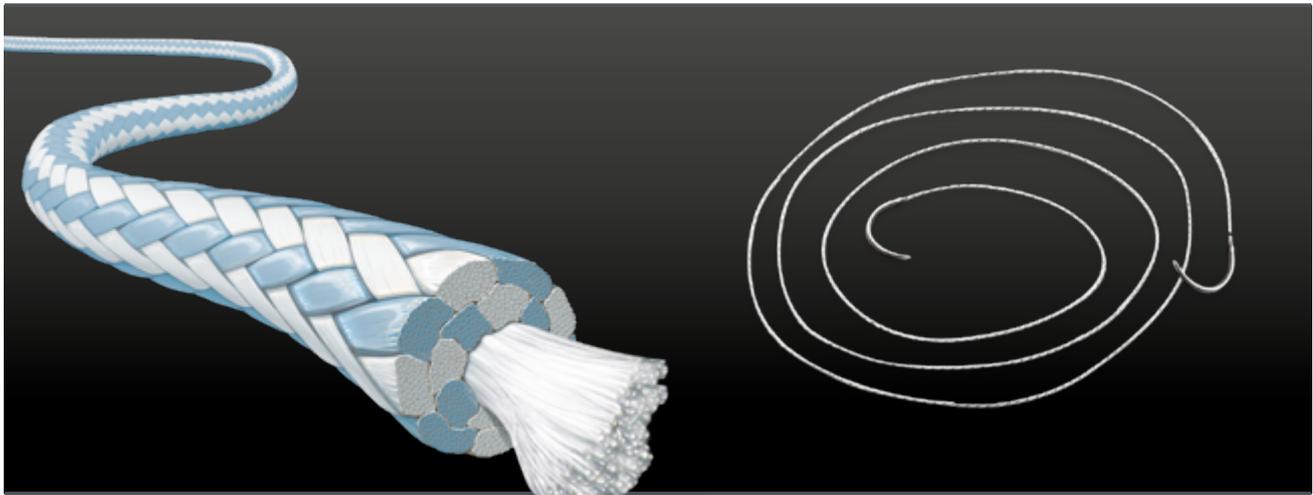
Average force (N) applied resulting in 3 mm loop displacement (#2 suture)

Suture Products
Data on file



FiberWire® Suture Family

FiberWire® and TigerWire®

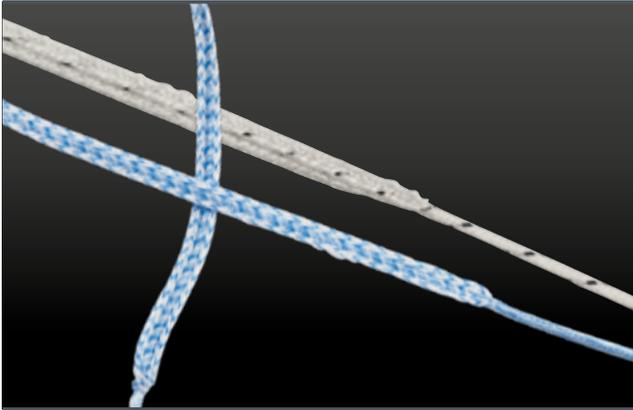


High-strength sutures constructed from a UHMWPE core with a braided jacket of polyester and UHMWPE

- High tensile strength, superior feel and knot-tying characteristics
- Resistant to abrasion
- TigerWire (same construction as FiberWire) is white with a black marker strand for better visualization

Product Description	Item Number
#0 FiberWire®, 97 cm, with tapered needle, 22.2 mm, 1/2 circle	AR-7250
#0 FiberWire®, 97 cm, with diamond point needle, 22.2 mm, 1/2 circle	AR-7251
#0 FiberWire®, 97 cm (white)	AR-7255
#1 FiberWire®, 97 cm (blue)	AR-7216
#1 TigerWire®, 97 cm (white/black)	AR-7216T
#2 FiberWire®, 97 cm (blue) with tapered needle, 26.5 mm, 1/2 circle	AR-7200
#2 FiberWire®, 97 cm (blue, white/black)	AR-7201
#2 FiberWire®, 97 cm (blue) with reverse cutting needle, 36.6 mm, 1/2 circle	AR-7202
#2 TigerWire®, 97 cm (white/black)	AR-7203
#2 FiberWire®, 97 cm (blue) with two tapered needles, 26.5 mm, 1/2 circle	AR-7205
#2 TigerWire®, 97 cm (white/black) with two tapered needles, 26.5 mm, 1/2 circle	AR-7205T
#2 FiberWire®, 97 cm (blue) with tapered needle, 36.6 mm, 1/2 circle	AR-7206
#2 FiberWire®, 97 cm (one blue, one white/black) with tapered needle, 26.5 mm, 1/2 circle	AR-7208
#2 FiberWire®, 97 cm (three blue, one white, one white/black) with tapered needle, 26.5 mm, 1/2 circle	AR-7214
#2 FiberWire®, 97 cm (one blue, one white/black) with reverse cutting needle, 36.6 mm, 1/2 circle	AR-7217
#2 FiberWire®, 97 cm (blue)	AR-7233
#2 FiberWire®, 97 cm (one white, one blue/black)	AR-7240
#5 FiberWire®, 97 cm	AR-7210
#5 FiberWire®, 97 cm, with conventional cutting needle, 48 mm, 1/2 circle	AR-7211
#5 FiberWire®, 97 cm (one blue, one white, one white/black) with conventional cutting needle, 48 mm, 1/2 circle	AR-7212
#5 FiberWire®, 97 cm, with conventional cutting needle, 48 mm, 1/2 circle, and tapered needle, 26.5 mm, 1/2 circle	AR-7213
FiberWire® suture kit with four #5 FiberWire® (blue), four #5 FiberWire® (white), four #5 FiberWire® (white/black), six #2 FiberWire® (blue) with tapered needle and three free needles	AR-7219

FiberTape® and TigerTape™



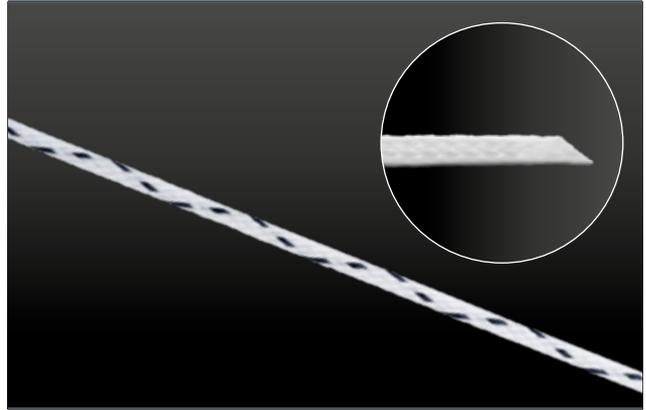
2mm wide, high-strength braided polyblend suture

- Same material as FiberWire and similar in structure
- Ends tapered to #2 FiberWire for easy suture passage
- Increased contact area distributes the pressure, ideal where tissue pull-through may be a concern
- Option for high-demand applications such as AC joint reconstruction

Product Description	Item Number
FiberTape®, 2 mm, 91.4 cm (blue) each end tapered to #2 FiberWire®	AR-7237
FiberTape®, 2 mm, 17.8 cm (blue) each end tapered to #2 FiberWire®	AR-7237-7
FiberTape®, 2 mm, 17.8 cm each end tapered to #2 FiberWire®, collagen-coated	AR-7237-7B
FiberTape®, 2 mm, 43.1 cm (blue) each end tapered to #2 FiberWire® with tapered needle, 26.5 mm, 1/2 circle	AR-7237-17N
TigerTape™, 2 mm, 17.8 cm (white/black) each end tapered to #2 FiberWire®	AR-7237-7T
FiberTape® loop, 2 mm, 20.3 cm (blue), tapered to #2 FiberWire®	AR-7275
TigerTape loop, 2 mm, 20.3 cm (white/black), tapered to #2 TigerWire®	AR-7275T

FiberTape® (not LabralTape™) is tapered to #2 FiberWire® on both ends. The specified lengths refer to the length of the FiberTape® section only.

LabralTape™

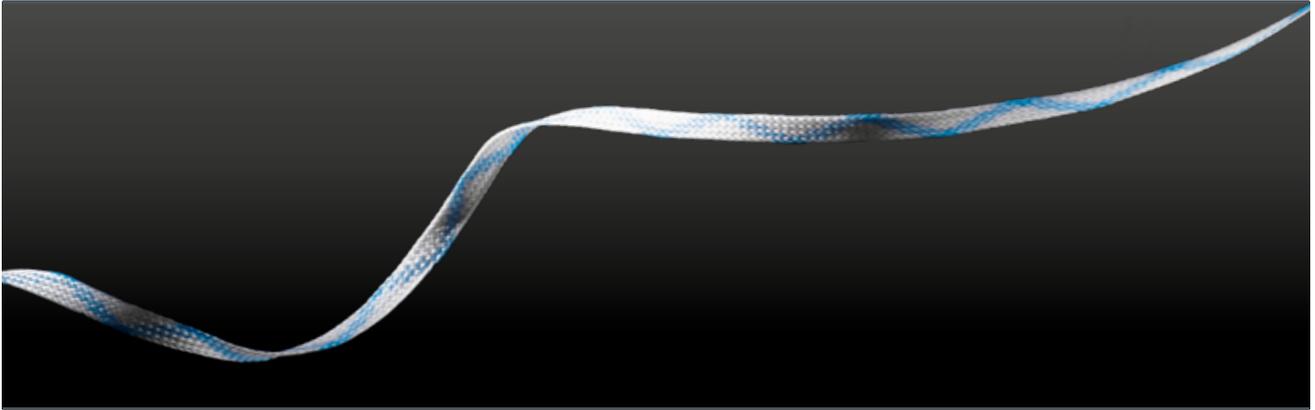


1.5 mm wide, low profile polyethylene suture

- Made of the same material as the FiberWire core
- Increased contact area distributes the pressure, ideal where tissue pull-through may be a concern (37% more resistant)

Product Description	Item Number
LabralTape™, 1.5 mm, 91 cm, braided polyethylene suture (white/black)	AR-7276T
LabralTape™, 1.5 mm, 91 cm, braided polyethylene suture, white, UHMWPE	AR-7276

SutureTape



Wide woven #2 suture

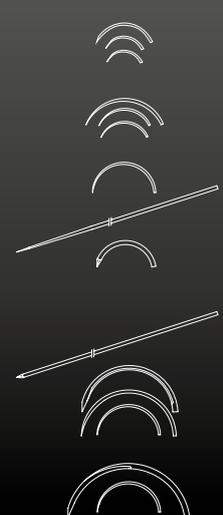
- 1.3 mm polyblend suture braided flat
- Limbs tapered to #2 FiberWire
- Increased contact area distributes the pressure, ensuring that the suture cuts into the soft tissue less easily
- Easy to tie knots; suture is less likely to cut into the fingers during knot tying
- SutureTape knot stacks are smaller than FiberWire knot stacks and, at the same time, more resistant to knot slippage

Product Description	Item Number
SutureTape, 1.3 mm, 91.4 cm, braided polyethylene suture with round suture tails with tapered needle (white/blue)	AR-7500



FiberWire® and TigerWire® with Needle

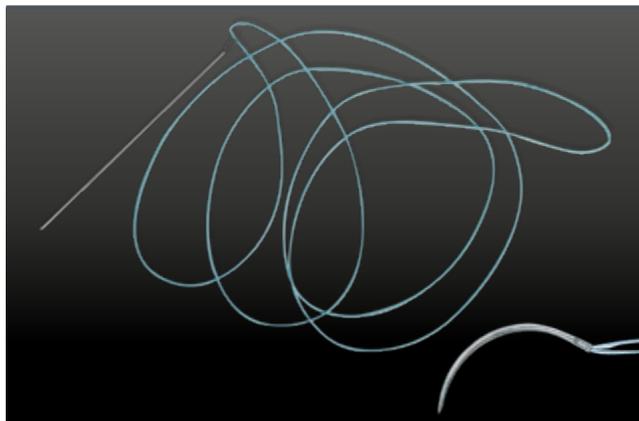
FiberWire® and TigerWire®			
Size	Available Colors	Needle Descriptions	Needle Dimensions
#4 - 0 (1.5 metric)	Blue White	Diamond point Tapered Reverse cutting	18.7 mm, 3/8 circle 12.3 mm, 3/8 circle 11.9 mm, 3/8 circle
#3 - 0 (2 metric)	Blue	Diamond point Tapered Reverse cutting	26.2 mm, 3/8 circle 15 mm, 3/8 circle 16.3 mm, 3/8 circle
#2 - 0 (3 metric)	Blue	Tapered (heavy-duty) Tapered	26.5 mm, 1/2 circle 17.9 mm, 3/8 circle
#0 (3.5 metric)	Blue White/black White White/green	Tapered Tapered Diamond point	76 mm, straight 26.5 mm, 5/8 circle 22.2 mm, 1/2 circle
#1 (4 metric)	Blue N/A White/black	N/A	N/A
#2 (5 metric)	Blue White/black White Blue/black	Diamond point Reverse cutting Tapered Tapered	76 mm, straight 36.6 mm, 1/2 circle 36.6 mm, 1/2 circle 26.5 mm, 1/2 circle
#5 (7 metric)	Blue White/black White	Conventional cutting Tapered	48 mm, 1/2 circle 26.5 mm, 1/2 circle
Additional Needles	Reverse cutting needle with nitinol loop Tapered needle with nitinol loop	AR-7280 AR-7281	



Images of the needles are not drawn to scale

Product Description	Item Number		
#5 FiberWire®, 96.5 cm (blue) with conventional cutting needle, 48 mm, 1/2 circle	AR-7211	#0 FiberWire®, 96.5 cm (blue), with tapered needle, 22.2 mm, 1/2 circle	AR-7250
#5 FiberWire®, 96.5 cm (one blue, one white, one white/black) with conventional cutting needle, 48 mm, 1/2 circle	AR-7212	#0 FiberWire®, 96.5 cm (blue), with diamond point needle, 22.2 mm, 1/2 circle	AR-7251
#5 FiberWire®, 96.5 cm (blue) with conventional cutting needle, 48 mm, 1/2 circle, and tapered needle, 26.5 mm, 1/2 circle	AR-7213	#2 - 0 FiberWire®, 45.7 cm (blue) with tapered needle, 17.9 mm, 3/8 circle	AR-7220
#2 FiberWire®, 96.5 cm (blue) with tapered needle, 26.5 mm, 1/2 circle	AR-7200	#2 - 0 FiberWire®, 45.7 cm (blue) with tapered needle, 26.5 mm, 1/2 circle	AR-7242
#2 FiberWire®, 96.5 cm (blue) with reverse cutting needle, 36.6 mm, 1/2 circle	AR-7202	#3 - 0 FiberWire®, 45.7 cm (blue) with diamond point needle, 26.2 mm, 3/8 circle	AR-7225
#2 FiberWire®, 96.5 cm (blue) with two tapered needles, 26.5 mm, 1/2 circle	AR-7205	#3 - 0 FiberWire®, 45.7 cm (blue) with tapered needle, 15 mm, 3/8 circle	AR-7227-01
#2 FiberWire®, 96.5 cm (blue) with tapered needle, 36.6 mm, 1/2 circle	AR-7206	#3 - 0 FiberWire®, 45.7 cm (blue) with reverse cutting needle, 16.3 mm, 3/8 circle	AR-7227-02
#2 FiberWire®, 96.5 cm (one blue, one white/black) with tapered needle, 26.5 mm, 1/2 circle	AR-7208	#4 - 0 FiberWire®, 45.7 cm (blue) with diamond point needle, 18.7 mm, 3/8 circle	AR-7228
#2 FiberWire®, 96.5 cm (three blue, one white, one white/black) with tapered needle, 26.5 mm, 1/2 circle	AR-7214	#4 - 0 FiberWire®, 45.7 cm (blue) with tapered needle, 12.3 mm, 3/8 circle	AR-7230-01
#2 FiberWire®, 96.5 cm (one blue, one white/black) with reverse cutting needle, 36.6 mm, 1/2 circle	AR-7217	#4 - 0 FiberWire®, 45.7 cm (blue) with reverse cutting needle, 11.9 mm, 3/8 circle	AR-7230-02
#2 FiberWire®, 96.5 cm (one blue, one white/black)	AR-7201	#4 - 0 FiberWire®, 45.7 cm (white) with tapered needle, 12.7 mm, 1/2 circle	AR-7248
#2 FiberWire®, 96.5 cm (one white, one blue/black)	AR-7240		

FiberLoop®

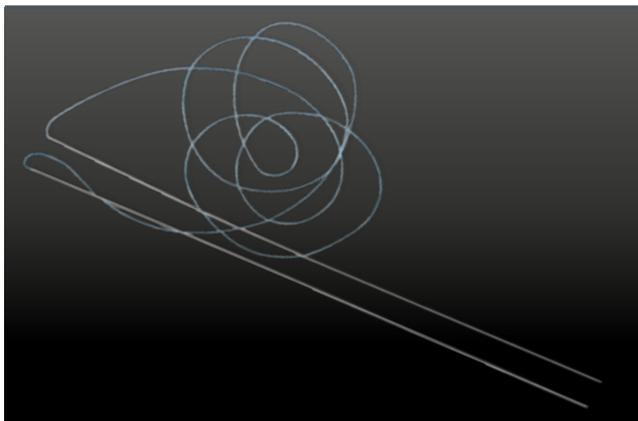


FiberLoop, a continuous loop of FiberWire with multiple needle options

- For quick preparation of tendon limbs with the SpeedWhip technique
- The needle can be used after cutting the loop, e.g., shuttling through buttons (#0, #2 suture versions)
- SpeedWhip rip-stop technique using FiberLoop with FiberTag suture

Product Description	Item Number
#2 FiberLoop® with straight needle, 50 cm (blue), 76 mm needle with 7 mm loop	AR-7234
#2 FiberLoop® with straight needle, 50 cm (blue), 76 mm needle with 7 mm loop, collagen-coated	AR-7234B
#2 FiberLoop® with straight needle, 50 cm (white), 76 mm needle with 7 mm loop	AR-7234-01
#2 TigerLoop™ with straight needle, 50 cm with TigerWire® (white/green), 76 mm needle with 7 mm loop	AR-7234T
#2 FiberLoop® with curved needle, 50 cm (blue), 1/2 circle	AR-7234C
#0 FiberLoop® with straight needle, 33 cm (blue), 76 mm needle with 7 mm loop	AR-7253
FiberLoop® with FiberTag® and straight needle	AR-7264
FiberLoop® with FiberTag® with swaged straight needle	AR-7266
#0 TigerLoop™ with straight needle, 33 cm (white/black), 76 mm needle with 7 mm loop	AR-7253T
#2-0 FiberLoop®, 76.2 cm (blue) with diamond point needle, 48 mm, 1/2 circle	AR-7232-01
#2-0 FiberLoop®, 61 cm (blue) with diamond point needle, 26.2 mm, 3/8 circle	AR-7232-02
#2-0 FiberLoop®, 33 cm (blue) with diamond point straight needle, 64.8 mm	AR-7232-03
#4-0 FiberLoop®, 15.2 cm (white) with tapered needle, 12.7 mm, 1/2 circle	AR-7249-12
#4-0 FiberLoop®, 25.4 cm (white) with tapered needle, 12.7 mm, 1/2 circle	AR-7249-20
#4-0 FiberLoop®, 15.2 cm (blue) with tapered needle, 17.9 mm, 3/8 circle	AR-7229-12
#4-0 FiberLoop®, 25.4 cm (blue) with tapered needle, 17.9 mm, 3/8 circle	AR-7229-20

#2-0 FiberWire® Meniscus Repair Needles

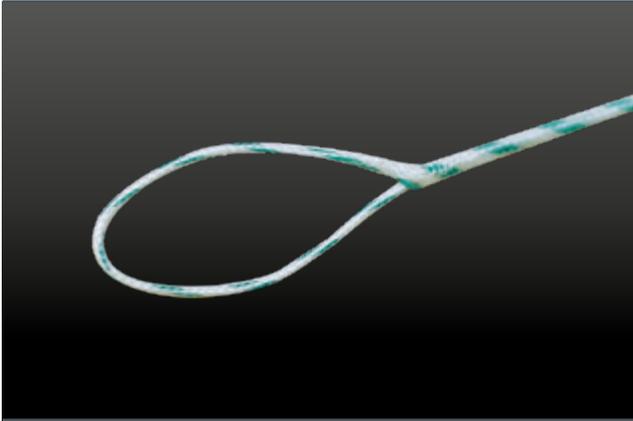


#2-0 FiberWire suture swaged onto the back end of two standard length needles

- Ideal for standard inside/out meniscus repair
- The stainless steel needles easily pass through meniscal and soft tissues
- Benefits of FiberWire's superior strength, feel, abrasion resistance, smooth tieability and lower knot profile

Product Description	Item Number
#2-0 FiberWire® meniscus repair needles	AR-7223
#2-0 FiberWire® meniscus repair needles, small	AR-7223SM

FiberSnare®



FiberWire with traction loop and stiffened suture end

- 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

Product Description	Item Number
FiberSnare®, #2 FiberWire®, 66 cm (green), stiffened with closed loop, 30.5 cm	AR-7209SN

FiberChain®

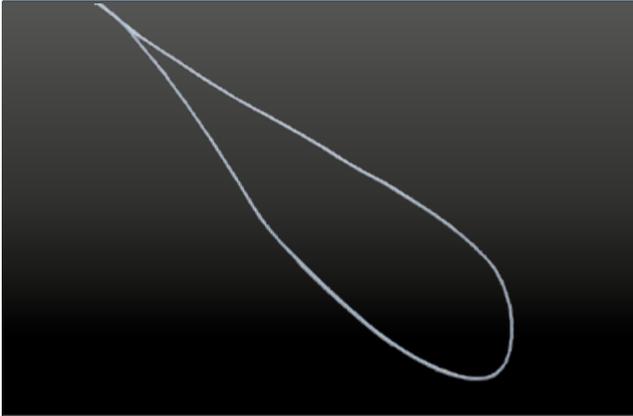


A single-stranded, #2 FiberWire suture that transitions to chain links of interwoven FiberWire

- It is intended for use with the forked tip SwiveLock

Product Description	Item Number
FiberChain®, #2 FiberWire® with ten 7 mm long loops (required with SwiveLock®)	AR-7209SN

FiberLink™



#2 FiberWire that transitions from a single strand to an extended loop

- Simple method of creating a cinch stitch
- Can also be used as a suture shuttle to pass multiple sutures at once

Product Description	Item Number
FiberLink™, #2 FiberWire® (blue) with loop	AR-7235
TigerLink™, #2 TigerWire® (white/black) with loop	AR-7235T

FiberWire® Suture Kit

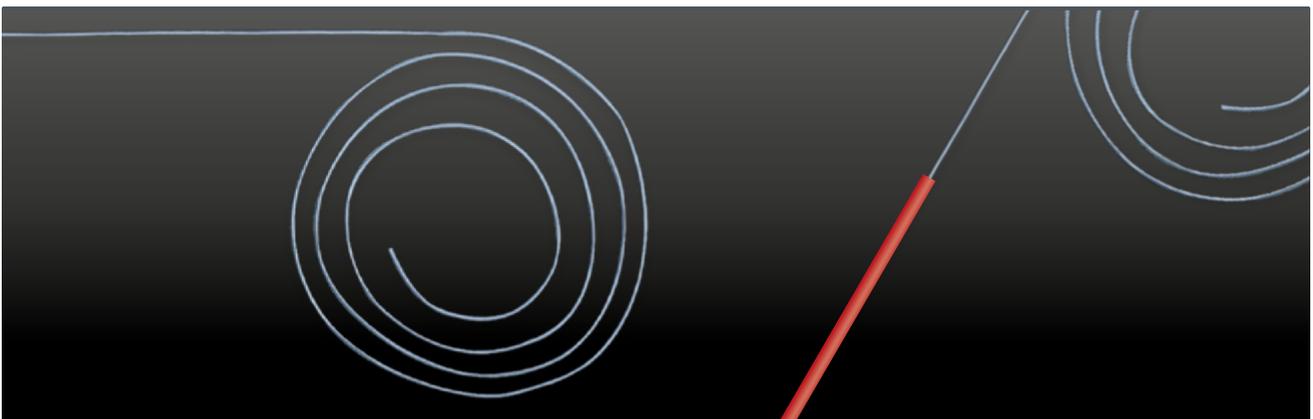


A variety of suture sizes and needle options contained in one kit

- Contains 18 sutures including three different colored versions of #5 FiberWire, large cutting spring eye free needles and #2 FiberWire

Product Description	Item Number
FiberWire® suture kit	AR-7219

FiberStick™ and TigerStick®



FiberWire with a 30 cm long stiff "waxed" section

- Allows convenient and easy advancement through most cannulated instruments
- FiberSticks come with a thin plastic tube which protects the stiffened suture until use
- TigerStick is similar to FiberStick but white with a black stripe in the suture, making suture identification easier

Product Description	Item Number
#2 FiberStick™	AR-7209
#2 TigerStick®	AR-7209T
#2-0 FiberStick™	AR-7222

Accessories

Suture Cutters

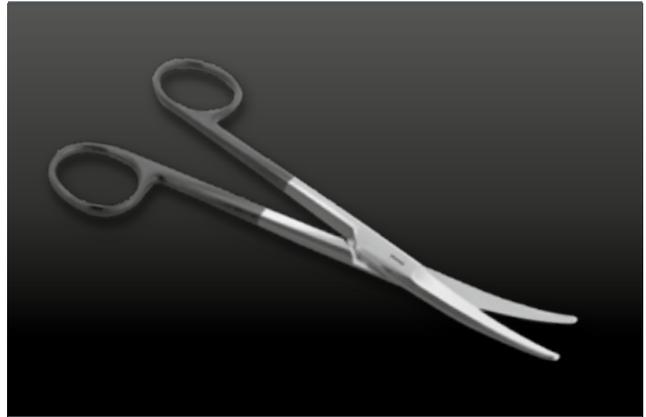


Comprehensive offering of open and arthroscopic suture cutters designed specifically for use with FiberWire or FiberTape sutures

- The uniquely designed jaws remain sharp through repeated use
- Available with open or closed tips
- Standard ring or WishBone handles and flush-cut or knot-preserving suture tail options
- FiberTape cutters designed to cut two strands of FiberTape flush to the anchor without direct visual control

Product Description	Item Number
Suture cutter, 4.2 mm, straight	AR-12250
Suture cutter, 4.2 mm with WishBone™ handle, straight	AR-12250W
Suture cutter, 3.4 mm, straight	AR-13255
Suture cutter, 3.4 mm, with WishBone™ handle, straight	AR-13255W
#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 with WishBone™ handle	AR-11794LW
FiberTape® cutter	AR-13250
FiberTape® cutter with WishBone™ handle	AR-13250W

FiberWire® Scissor

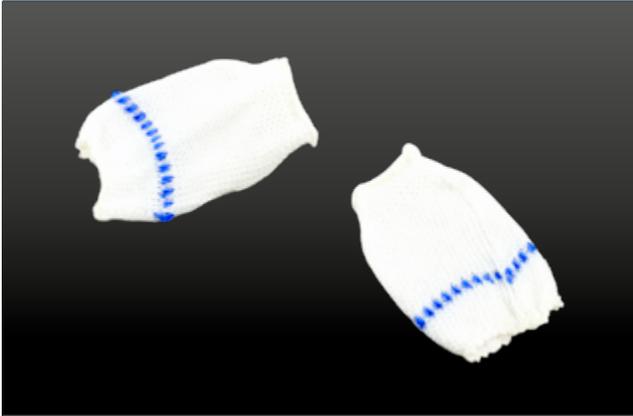


The FiberWire scissor was designed to cut any size or style suture, especially FiberWire

- Specially designed cutting edges cut FiberWire cleanly and effortlessly without frayed edges
- Perfect for open cases where an arthroscopic suture cutter is not necessary

Product Description	Item Number
FiberWire® scissor	AR-11796
FiberWire® scissor, small	AR-11797

FingerShield™



Polyester sleeve with a radiopaque blue marker to protect fingers during knot tying

- Reduces pressure-induced lacerations caused by repetitive knot tying
- Protection of the IP joint area
- Soft, finger-conforming weave will stand up to repetitive hand tying during a case without constraining the fingers

Product Description	Item Number
FingerShield™, qty. 2	AR-7199

References

1. 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.
2. FiberWire: Collective Summary of Strength and Biocompatibility Testing Data Comparisons of Polyester and Polyblend Sutures, study presented from in-house testing, 2001; LA0235.
3. Lo I KY, Burkhart SS, Biomechanical Principles of Arthroscopic Repair of the Rotator Cuff, *Operative Techniques in Orthopaedics*, 2002; 12(3):140-155.
4. 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).

