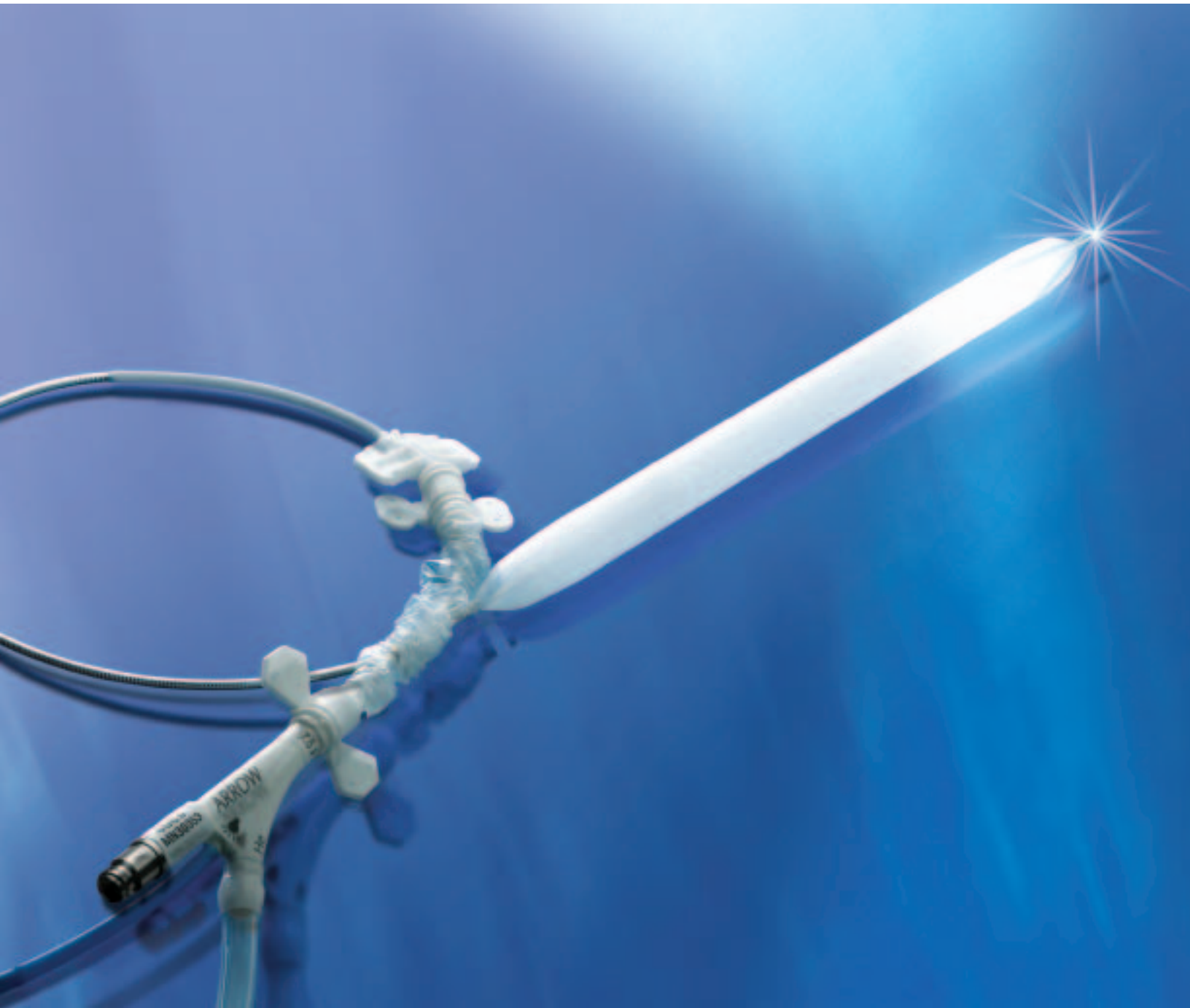


# Respond to Arrhythmias in Real Time

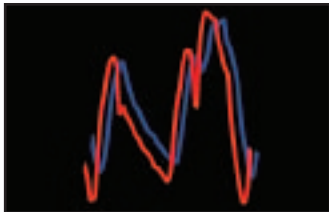
 **FIBEROPTIX™**  
INTRA-AORTIC BALLOON CATHETER



CARDIAC ASSIST

 **ARROW®**  
INTERNATIONAL

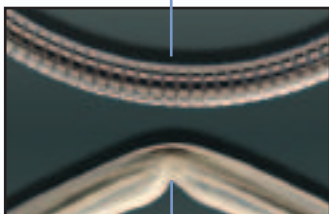
# The First and Only Fiber Optic Series of Catheters



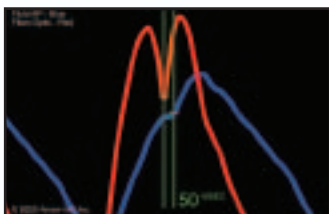
FiberOptix vs  
traditional fluid-filled system  
**Red** = FiberOptix **Blue** = Fluid



Arrow's wire-reinforced  
catheter at a 20% bend



Competitor's urethane  
catheter at a 20% bend



FiberOptix vs  
traditional fluid-filled system  
**Red** = FiberOptix **Blue** = Fluid  
*Showing a 50 mSec AP signal  
time delay with fluid-filled system*

## Consistently Captures AP Signal

FiberOptix technology reliably captures consistent AP information from aorta to pump. Unlike conventional fluid-filled systems, the FiberOptix sensor is unaffected by routine conditions such as dampening, flushing, blood draws, noise, and transducer movement. So, you can be confident in the AP signal the catheter captures.

## Transmits Better Information Faster

With FiberOptix, you can depend on faster transmission of the AP signal through the catheter. The unique FiberOptix sensor in the tip of the catheter uses reflected light traveling at 186,000 miles per second to measure changes in AP. The result: better AP information communicated faster than conventional fluid-filled transducers.

## Resists Kinking

The FiberOptix 7.5 Flex wire-reinforced catheter delivers easy and reliable intra-aortic balloon (IAB) performance. It features a better kink-resistant body and large gas lumen for optimal, consistent gas flow between balloon and pump. The small 7.5 Fr. catheter body also maximizes arterial flow around the catheter, reducing the risk of limb ischemia.

## Reliable Support, Even During Arrhythmias

FiberOptix supports the clinical needs of intra-aortic balloon pump (IABP) therapy patients when used in combination with Arrow's AutoCAT2 WAVE® pump console. Both FiberOptix 7.5 Flex and FiberOptix 8 catheters utilize speed-of-light signal acquisition and transmission, facilitating accurate balloon timing—even in patients with severe arrhythmias.



## Reliable, Speed-of-Light Response

- Speed-of-light AP signal acquisition overcomes the delays of fluid-filled systems to set timing accurately during arrhythmias
- AP signal converted to aortic flow calculates the future AV closure with 98% accuracy during severe arrhythmias<sup>1</sup>
- FiberOptix AP signal is unaffected by dampening, noise, and movement—and will not degrade over time

## Built-In Performance Features

- **Optional wire-reinforced catheter:** Choose either the original FiberOptix 8 or the FiberOptix 7.5 Flex with wire-reinforced, kink-resistant catheter body
- **Abrasion-resistant balloon membrane:** Our Cardiothane™ II balloon offers a unique design of abrasion-resistant material with hydrophilic coating
- **Universal design:** Sheathed or sheathless insertion options and optional hemostasis device for post-insertion bleeding control are available
- **Flexible fit:** Fits through 8 Fr. sheaths (available in 30cc or 40cc sizes)
- **Easy and reliable:** Eliminates many routine user-intervention and signal problems:
  - No maintenance of fiber optic signal
  - No electrical interference from cautery
  - No transducer-induced motion artifact
  - No re-zeroing of transducers

*The accurate, real-time advantages of FiberOptix catheters are available only when the catheter is used with the AutoCAT2 WAVE pump console. However, FiberOptix can be used as a conventional catheter with any IABP, ensuring continuity and ease in cases of patient transfer.*



 **FIBEROPTIX™**  
INTRA-AORTIC BALLOON CATHETER

## Product Specifications

## All Arrow IAB catheters are latex-free.

Product Number	Catheter Size	Balloon Volume	Insertable Length*	Catheter O.D.	Sheath Length	Central Lumen I.D. (inch)	Maximum Guidewire (inch)	Balloon Membrane Material	Catheter Material	Balloon Membrane Length	Inflated Diameter
IAB-05840-LWS	8.0 Fr.	40cc	27.3" (69.3cm)	8.0 Fr. 0.105"	6" (15cm)	.027	.025	Cardiothane II	Polyurethane/ Nylon	10.2" (260mm)	15mm
IAB-05830-LWS	8.0 Fr.	30cc	25.3" (64.3cm)	8.0 Fr. 0.105"	6" (15cm)	.027	.025	Cardiothane II	Polyurethane/ Nylon	9.1" (230mm)	13.9mm
IAB-06840-LWS	7.5 Fr.	40cc	27.3" (69.3cm)	7.5 Fr. 0.100"	6" (15cm)	.027	.025	Cardiothane II	Polyurethane/ Stainless Steel†	10.2" (260mm)	15mm
IAB-06830-LWS	7.5 Fr.	30cc	25.3" (64.3cm)	7.5 Fr. 0.100"	6" (15cm)	.027	.025	Cardiothane II	Polyurethane/ Stainless Steel†	9.1" (230mm)	13.9mm
IAB-06850-LWS‡	9.0 Fr.	50cc	26.0" (66.0cm)	9.0 Fr. 0.121"	6" (15cm)	.027	.025	Cardiothane II	Polyurethane/ Stainless Steel†	10.2" (260mm)	16mm

### ORDERING INFORMATION

Each balloon catheter is packaged with a pre-mounted hemostasis device, 60cc syringe, one-way valve, and driveline tubing for Arrow IABP consoles. Each IAB package contains an Insertion Kit (see components below) and separately packaged driveline tubing for TransAct® and Datascope® pump consoles.

#### Product No. Description

#### FIBEROPTIX 8 INTRA-AORTIC BALLOON CATHETERS

**IAB-05840-LWS** FiberOptix 8 40cc 8.0 Fr. IAB Catheter  
**IAB-05830-LWS** FiberOptix 8 30cc 8.0 Fr. IAB Catheter

#### FIBEROPTIX 7.5 FLEX INTRA-AORTIC BALLOON CATHETERS

**IAB-06840-LWS** FiberOptix 7.5 Flex 40cc 7.5 Fr. IAB Catheter with wire-reinforced catheter body  
**IAB-06830-LWS** FiberOptix 7.5 Flex 30cc 7.5 Fr. IAB Catheter with wire-reinforced catheter body

#### FIBEROPTIX 9 FLEX INTRA-AORTIC BALLOON CATHETER

**IAB-06850-LWS‡** FiberOptix 9 Flex 50cc 9.0 Fr. IAB Catheter with wire-reinforced catheter body

### REPLACEMENT INSERTION KITS

<b>IAK-05845</b>	Replacement Insertion Kit for use with FiberOptix 8, 30cc and 40cc (IAB-05830-LWS and IAB-05840-LWS) catheters. Each kit contains the following: <ul style="list-style-type: none"> <li>• One: 18 Ga. x 2 1/2" Arterial Needle</li> <li>• One: 8.0 Fr. Sheath Dilator Assembly</li> <li>• One: 8.0 Fr. Wire-Reinforced Sheath with Sideport and Dilator</li> <li>• Two: .025 x 175cm Teflon® Coated 3mm 'J' Extra Stiff Wire Guides</li> <li>• One: 8.0 Fr. Vessel Pre-Dilator</li> <li>• One: #11 Scalpel</li> </ul>
<b>IAK-06845</b>	Replacement Insertion Kit for use with FiberOptix 7.5 Flex, 30cc and 40cc (IAB-06830-LWS and IAB-06840-LWS) catheters. Each kit contains the following: <ul style="list-style-type: none"> <li>• One: 18 Ga. x 2 1/2" Arterial Needle</li> <li>• One: 8.0 Fr. Sheath Dilator Assembly</li> <li>• One: 8.0 Fr. Sheath with Sideport and Dilator</li> <li>• Two: .025 x 175cm Teflon Coated 3mm 'J' Extra Stiff Wire Guides</li> <li>• One: 8.0 Fr. Vessel Pre-Dilator</li> <li>• One: #11 Scalpel</li> </ul>
<b>IAK-06855†</b>	Replacement Insertion Kit for use with FiberOptix 9 Flex, 50cc (IAB-06850-LWS) catheter
<b>IAK-02691</b>	Driveline Tubing with Pre-Attached Arrow 30cc Pump Connector for use with Arrow pump consoles and FiberOptix 30cc IAB Catheters
<b>IAK-02692</b>	Driveline Tubing with Pre-Attached Arrow 40cc Pump Connector for use with Arrow pump consoles and FiberOptix 40cc IAB Catheters
<b>IAK-02693</b>	Driveline Tubing with Pre-Attached Arrow 50cc Pump Connector for use with Arrow pump consoles and FiberOptix 50cc IAB Catheters
<b>IAK-02262</b>	Driveline Tubing for use with TransAct pump consoles and FiberOptix Series IAB Catheters
<b>IAK-02263</b>	Driveline Tubing for use with Datascope Balloon Pumps and FiberOptix 30cc and 40cc IAB Catheters
<b>IAK-02271</b>	Driveline Tubing for use with Datascope Balloon Pumps and FiberOptix 50cc IAB Catheters

\*Sheathless insertions without hemostasis device.

†Wire-reinforced catheter body.

‡Contact Arrow for availability.

**Reference:** 1. Donelli A, Jansen JRC, Hoeksel B, et al. Performance of a real-time dirotic notch detection and prediction algorithm in arrhythmic human aortic pressure signals. *J Clin Monit.* 2002;17:181-185.

Caution: U.S. Federal law restricts this device to sale by or on order of a physician. Contents of unopened, undamaged package are sterile.

Disposable. Refer to package insert for current warnings, indications, contraindications, precautions, and instructions for use.

U.S. Patent Nos. 6,258,035 and 6,569,103. Datascope is a registered trademark of Datascope, Inc. Teflon is a registered trademark of DuPont Corporation.

#### Distribution Worldwide:

Arrow offices are located in Belgium, Canada, Czech Republic, France, Germany, Greece, India, Italy, Japan, Mexico, Netherlands, Slovakia, South Africa, Spain, and the United States.

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