

Crossing Every Lesion

Peripheral Vascular Interventions

**Boston
Scientific**

Advancing science for life™



TruePath™
CTO Device



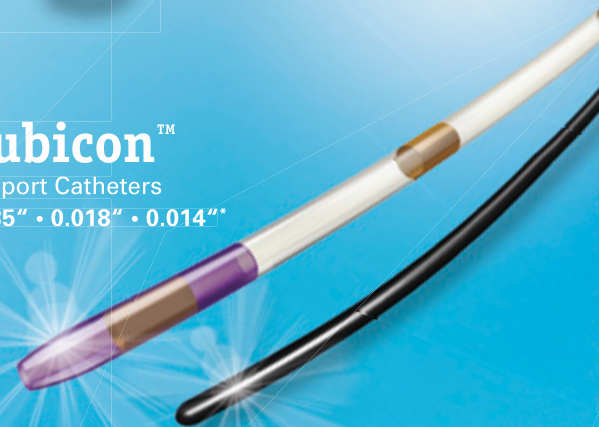
OffRoad™
Re-entry Catheter System

MASTER THE CROSS



Victory™
Guidewires
Tip Loads 12 • 18 • 25 • 30 grams

Rubicon™
Support Catheters
0.035" • 0.018" • 0.014"



V-14™ & V-18™
ControlWire™ Guidewires
Tip Loads V-14™ 3 • 6 grams
V-18™ 6 • 8 grams

0.035" = 0.89mm • 0.018" = 0.46mm • 0.014" = 0.36mm

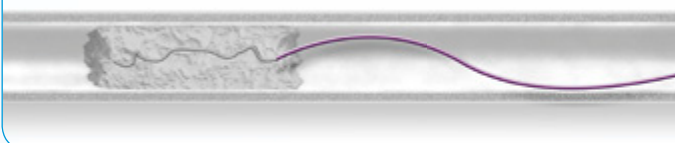
Troubleshooting

Wire fails to select side branch



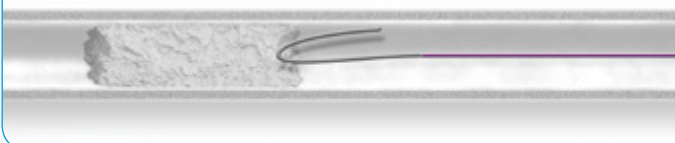
- ↑ Steerability**
 - Increase wire torque response
 - Add a torque device
 - Add a torquable diagnostic catheter
- ↑ Push**
 - Increase Wire Rail Support
- ↓ Friction**
 - Increase Lubricity
 - Increase Catheter lubricity

Tip enters lesion but wire fails to follow + Wire body curves and buckles



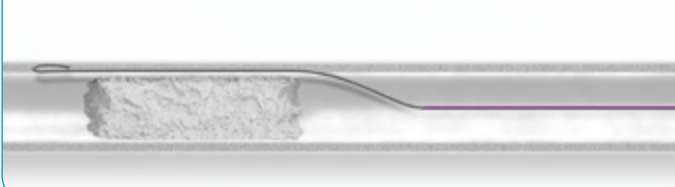
- ↓ Friction**
 - Increase Lubricity
 - Decrease Diameter
- and/or
- ↑ Push**
 - Increase Wire Rail Support
 - Increase Wire Support by adding a Support Catheter

Tip fails to enter lesion – Wire tip buckles against lesion



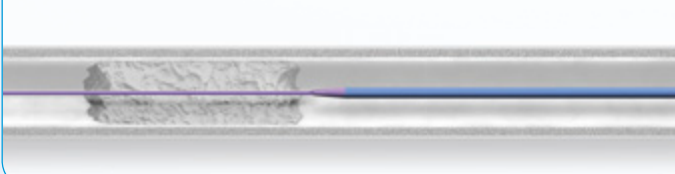
- ↑ Penetrating power**
 - Increase Tip Load
 - Decrease Wire Tip Diameter
 - Focus tip force by adding a support Catheter
- or
- Exchange for a Crossing Device**
 - Mechanically breakthrough the lesion

Wire enters Subintimal space but fails to re-enter true lumen



- Change Support to the wire tip**
Change catheter shape will provide backup support
- and
- Try different wire types**
Smaller wires, stiffer tips, different torque control
- or
- Use a Re-entry device**
To provide direction and to puncture back into the true lumen allowing wire to re enter

Wire Crosses but device fails to cross



- ↓ Profile**
 - Smaller Wire Platform
 - Lower profile devices
- and/or
- ↑ Support**
 - Increase Wire Rail Support
 - Increase Wire Support by adding a Guiding Catheter

Wire Prolapses on entry or Flips out on Device Delivery



- Change the Taper Length ...**
- ... For Navigation**
Increase Taper length, **longer tapers** allow the wire to follow the tip minimising prolapse
- ... For Device Delivery**
Decrease Taper length, **shorter tapers** supports the device closer to the tip of the wire minimising “flip out” particularly in areas of short distal wire purchase

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Peripheral Guidewires

THE MOST COMPREHENSIVE SELECTION TO HELP YOU ACCESS, CROSS AND DELIVER

ACCESS GUIDEWIRES

Designed to be flexible, have a soft atraumatic tip, and provide enough support to deliver diagnostic devices

NAVIGATING GUIDEWIRES

Designed to be flexible, steerable and navigate tortuous anatomy

CROSSING GUIDEWIRES




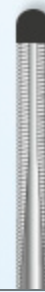

Designed to provide increasing tip stiffness and excellent torque response to successfully cross lesions

DELIVERY SUPPORT GUIDEWIRES





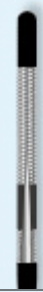
Designed to provide additional support for delivery of large devices and may aid in vessel straightening

| GUIDEWIRE NAME | TIP LOAD (GRAMS) | RAIL SUPPORT | LUBRICITY | WIRE LENGTH (CM) | TIP SHAPE | | | DISTAL COATING | | | DESCRIPTIONS |
|----------------|------------------|--------------|-----------|------------------|-----------|--------|------------|----------------|-----------------|-------------|--------------|
| | | | | | STRAIGHT | ANGLED | ATRAUMATIC | NITINOL | STAINLESS STEEL | HYDROPHILIC | |

0.035" (0.89 mm) +/- Guidewires

| | | | | | | | | | | | |
|------------------|---|---------------|------|-----------------------------------|---|---|--------|---|---|---|--|
| Access |  | Moderate | Low | 40/80/100/ 125/150/ 180/260 | • | • | J | • | • | • | Standard diagnostic and access guidewire available in Fixed Core, Moveable Core, Bentson, Newton and Rosen |
| Navigating |  | Moderate | High | 180 260 | • | • | • | • | • | • | Moderate access wire for catheter placement and exchange |
| Crossing |  | Moderate | High | 80 150 180 260 | • | • | J | • | • | • | Hydrophilic guidewire for access and crossing |
| Delivery Support |  | Extra Support | Low | 75 145 180 260 | • | • | J | • | • | • | Extra stiff access wire for strength and stability during catheter placement and exchange, ideal for contralateral access and carotid procedures |
| |  | Super | Low | 185 300 | • | • | J C | • | • | • | Super stiff access wire for strength and stability placing large devices such as thoracic sheaths, and AAA procedures |

0.018" (0.46 mm) Guidewires

| | | | | | | | | | | | |
|------------------|---|---------------|----------|--------------------------|---|---|---|---|---|---|--|
| Navigating |  | Extra Support | Moderate | 130 190 300 | • | • | J | • | • | • | Access and crossing lesions within acutely angled vessels, such as renal arteries |
| Crossing |  | Moderate | High | 110 150 200 300 | • | • | • | • | • | • | Crossing stenosed lesions / ideal for step-up strategy combined with higher gram load wires |
| |  | Moderate | High | 150 180 | • | • | • | • | • | • | Hydrophilic guidewire for access and crossing |
| Delivery Support |  | Moderate | High | 195 300 | • | • | • | • | • | • | Dedicated guidewires for Intraluminal technique to cross calcified lesions or tight plaque or chronic total occlusions |
| |  | Extra Support | Moderate | 145 180 260 | • | • | • | • | • | • | Crossing stenosed lesions / extra support for device delivery |

0.014" (0.36 mm) Guidewires

| | | | | | | | | | | | |
|------------------|---|------------------------|----------|-------------------|---|---|---|---|---|---|--|
| Navigating |  | Light | High | 185 300 | • | • | • | • | • | • | Navigating highly tortuous, distal and difficult-to-access anatomy |
| Crossing |  | Extra Support | Moderate | 130 190 300 | • | • | J | • | • | • | Access and crossing lesions within acutely angled vessels, such as renal arteries |
| |  | Moderate Extra Support | High | 182 300 | • | • | • | • | • | • | Crossing stenosed lesions / ideal for step-up strategy combined with higher gram load wires |
| Delivery Support |  | Moderate | High | 195 300 | • | • | • | • | • | • | Dedicated guidewires for Intraluminal technique to cross calcified lesions or tight plaque or chronic total occlusions |
| |  | Extra Support | Moderate | 180 300 | • | • | • | • | • | • | Crossing stenosed lesions / extra support for device delivery |

* Shapeable tip

** Hybrid Wire (SS and Nitinol)

1 Starter, ZIPWire, Thruway, Victory, are trademarks owned by Lake Region Medical, USA

2 This product could be also used for subminimal approach

Journey has a 1.27 cm uncoated distal tip

Magic Torque has 4 distal RO markers

Thruway 0.014" (0.36mm) has 3 distal RO markers

Platinum Plus is also available in 0.025" (0.64mm) diameter

ZIPWire is also available in 0.025" (0.64mm) and 0.038" (0.97mm) diameters

Amplatz Super Stiff and Starter are also available in 0.038" (0.97mm) diameters

CLINICAL RELEVANCE

Relates to stiffness of the tip. Tip stiffness relates to tip prolapse-ability and lesion cross-ability.

Relates to frictional resistance felt between the surface of the wire and the vasculature as the wire is tracked in the anatomy.

Relates to ability of the wire to support device delivery.

Tip load

Lubricity

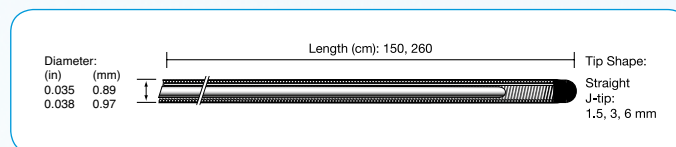
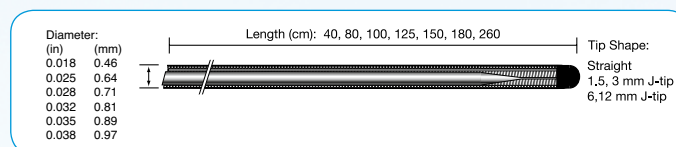
Rail Support

PTFE-coated Starter™ Access

Guidewire – Fixed Core^b

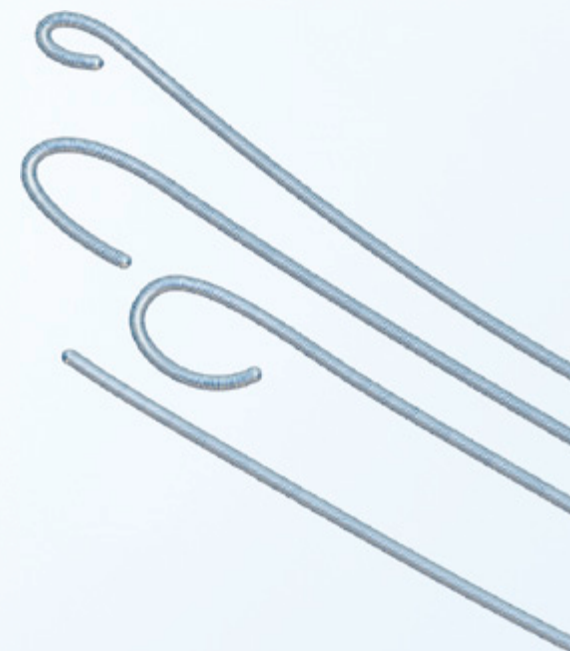
- For selective catheterization and all diagnostic and interventional procedures

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|-------------------------|---------------|---------------|-------------|----------------|-----------|
| M001492001 | 0.018 | 0.46 | 150 | 3 | Straight |
| M001492011 | 0.025 | 0.64 | 40 | 3 | Straight |
| M001492031 | 0.025 | 0.64 | 125 | 3 | Straight |
| M001491001 | 0.025 | 0.64 | 150 | 3 | Straight |
| M001492051 | 0.028 | 0.71 | 40 | 3 | Straight |
| M001492081 | 0.032 | 0.81 | 150 | 4 | Straight |
| M001492091 | 0.035 | 0.89 | 40 | 4 | Straight |
| M001492311 | 0.035 | 0.89 | 80 | 4 | Straight |
| M001492101 | 0.035 | 0.89 | 100 | 4 | Straight |
| M001492111 | 0.035 | 0.89 | 125 | 4 | Straight |
| M001491011 | 0.035 | 0.89 | 150 | 4 | Straight |
| M001492121 ^c | 0.035 | 0.89 | 180 | 4 | Straight |
| M001491031 ^c | 0.035 | 0.89 | 260 | 4 | Straight |
| M001491021 | 0.038 | 0.97 | 150 | 4 | Straight |
| M001492131 ^c | 0.038 | 0.97 | 260 | 4 | Straight |



J-Curved Fixed Core^b

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|-------------------------|---------------|---------------|-------------|----------------|-----------|
| M001491161 | 0.025 | 0.64 | 150 | 3 | 3mm J |
| M001492211 | 0.032 | 0.81 | 150 | 11 | 3mm J |
| M001491151 | 0.035 | 0.89 | 150 | 4 | 1.5mm J |
| M001492221 | 0.035 | 0.89 | 40 | 8 | 3mm J |
| M001492301 | 0.035 | 0.89 | 80 | 10 | 3mm J |
| M001492231 | 0.035 | 0.89 | 100 | 8 | 3mm J |
| M001491171 | 0.035 | 0.89 | 125 | 10 | 3mm J |
| M001491181 | 0.035 | 0.89 | 150 | 10 | 3mm J |
| M001491201 ^c | 0.035 | 0.89 | 180 | 10 | 3mm J |
| M001491211 ^c | 0.035 | 0.89 | 260 | 10 | 3mm J |
| M001492251 | 0.035 | 0.89 | 150 | 9 | 6mm J |
| M001492261 ^c | 0.035 | 0.89 | 180 | 9 | 6mm J |
| M001492271 | 0.035 | 0.89 | 150 | 8 | 12mm J |
| M001491191 | 0.038 | 0.97 | 150 | 11 | 3mm J |
| M001492281 | 0.038 | 0.97 | 150 | 8 | 12mm J |

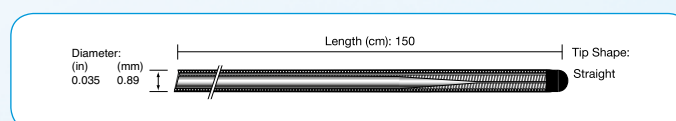


PTFE-coated Starter™ Access

Guidewire – Newton^a

- For access in tortuous and highly diseased vessels and smooth advancement during peripheral interventions^b

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|----------------|-----------|
| M001491501 | 0.035 | 0.89 | 150 | 10 | Straight |
| M001491511 | 0.035 | 0.89 | 150 | 15 | Straight |

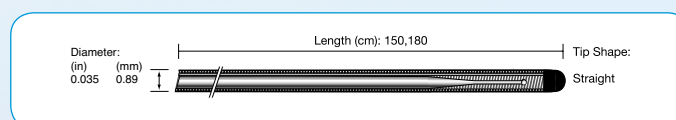


PTFE-coated Starter™ Access

Guidewire – New Bentson™^b

- For smooth advancement during peripheral intervention and for all extremely delicate diagnostic and interventional procedures^c

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|-------------------------|---------------|---------------|-------------|----------------|-----------|
| M001491451 ^b | 0.035 | 0.89 | 150 | 15 | Straight |
| M001491471 ^c | 0.035 | 0.89 | 180 | 15 | Straight |



a Packaged 10/box
 b Packaged 10/box for lengths up to 150cm included.
 c Packaged 5/box for lengths up to 150 cm included.
 d Packaged 3/box

* Data on file at Boston Scientific.

PTFE-coated Starter™ Access

Guidewire – Heavy Duty Fixed Core^a

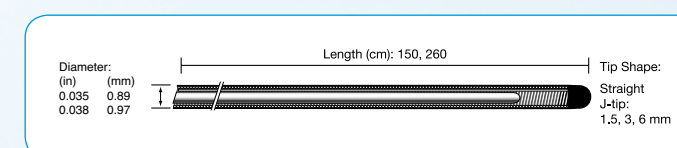
| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|----------------|-----------|
| M001492501 | 0.035 | 0.89 | 150 | 3 | Straight |

PTFEcoated Starter™ Access

Guidewire – Moveable Core

- Offering varying tip flexibility for tortuous vessels and all diagnostic and interventional procedures

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|-------------------------|---------------|---------------|-------------|----------------|-----------|
| M001491101 ^a | 0.035 | 0.89 | 150 | 0 | Straight |
| M001491111 ^a | 0.038 | 0.97 | 150 | 0 | Straight |



| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|-------------------------|---------------|---------------|-------------|----------------|-----------|
| M001491301 ^b | 0.035 | 0.89 | 150 | 0 | 1.5mm J |
| M001491321 ^b | 0.035 | 0.89 | 150 | 0 | 3mm J |
| M001491351 ^b | 0.035 | 0.89 | 150 | 0 | 6mm J |
| M001491341 ^b | 0.035 | 0.89 | 260 | 0 | 3mm J |
| M001491331 ^b | 0.038 | 0.97 | 150 | 0 | 3mm J |

PTFE-coated Starter™ Access

Guidewire – Double Ended^a

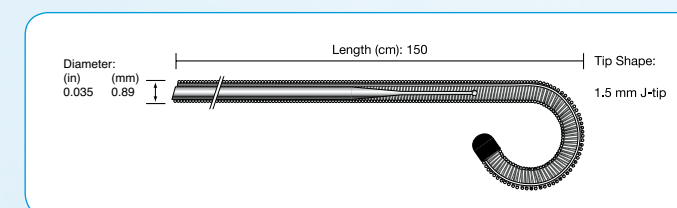
| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|----------------|-----------|
| M001492201 | 0.035 | 0.89 | 150 | 4 | 1.5mm J |
| M001492241 | 0.035 | 0.89 | 150 | 4 | 3mm J |

PTFE-coated Starter™ Access

Guidewire – Rosen Heavy Duty^a

- For additional support during procedures in highly diseased vessels, renal procedures and interventions in anatomy with short distal purchase

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|----------------|-----------|
| M001491551 | 0.035 | 0.89 | 150 | 4 | 1.5mm J |



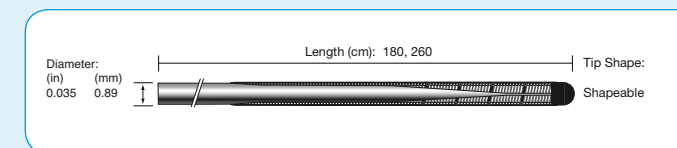
Magic Torque™ Navigating

Glidex™ Coated Hydrophilic Guidewire^d

- Glidex hydrophilic coating on 10cm distal tip
- 3cm shapeable distal tip
- Navigating wire indicated for catheter placement and exchange.

| UPN – Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip taper* (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|-----------------|-----------|
| M001465911 | 0.035 | 0.89 | 180 | 5 | Straight |
| M001465921 | 0.035 | 0.89 | 260 | 5 | Straight |

* 4 distal platinum Magic™ markers spaced at 1 cm increment



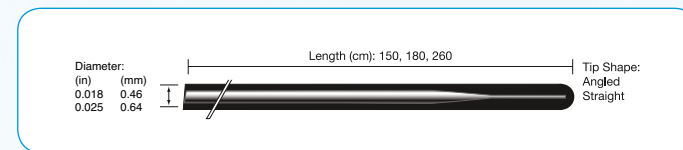
ZIPWire™ Crossing

Hydrophilic Guidewire

- Secure control when sub-selecting distal and angulated branch vessels
- Excellent visibility for accurate positioning

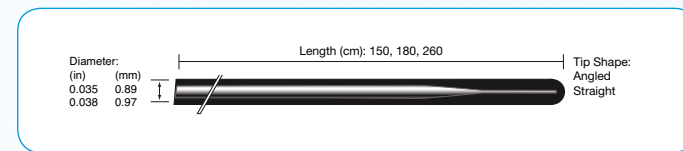
- Excellent kink-resistance
- Indicated for enhance steerability and control for maneuvering through difficult anatomy

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M00146125B1 | 0.025 0.64 | 150 | 3 | Angled |
| M00146126B1 | 0.025 0.64 | 150 | 3 | Straight |
| M00146240B1 | 0.025 0.64 | 180 | 3 | Angled |
| M00146249B1 | 0.025 0.64 | 180 | 3 | Straight |
| M00146254B1 | 0.025 0.64 | 260 | 3 | Angled |



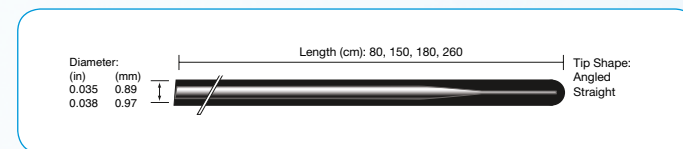
Standard shaft^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M00146151B1 | 0.035 0.89 | 150 | 3 | Angled |
| M00146152B1 | 0.035 0.89 | 180 | 3 | Angled |
| M00146154B1 | 0.035 0.89 | 260 | 3 | Angled |
| M00146155B1 | 0.035 0.89 | 150 | 3 | Straight |
| M00146156B1 | 0.035 0.89 | 180 | 3 | Straight |
| M00146159B1 | 0.035 0.89 | 260 | 3 | Straight |
| M00146161B1 | 0.038 0.97 | 150 | 3 | Angled |
| M00146162B1 | 0.038 0.97 | 180 | 3 | Angled |
| M00146165B1 | 0.038 0.97 | 150 | 3 | Straight |



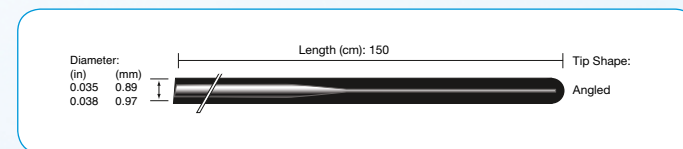
Stiff shaft^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M00146300B1 | 0.035 0.89 | 80 | 3 | Angled |
| M00146305B1 | 0.035 0.89 | 150 | 3 | Angled |
| M00146306B1 | 0.035 0.89 | 150 | 3 | Straight |
| M00146308B1 | 0.035 0.89 | 180 | 3 | Angled |
| M00146309B1 | 0.035 0.89 | 180 | 3 | Straight |
| M00146316B1 | 0.035 0.89 | 260 | 3 | Angled |
| M00146317B1 | 0.035 0.89 | 260 | 3 | Straight |
| M00146301B1 | 0.038 0.97 | 80 | 3 | Angled |
| M00146311B1 | 0.038 0.97 | 150 | 3 | Angled |
| M00146312B1 | 0.038 0.97 | 150 | 3 | Straight |
| M00146315B1 | 0.038 0.97 | 180 | 3 | Straight |



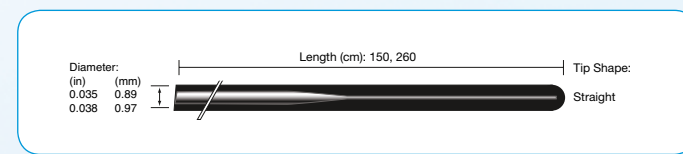
Standard Long Taper^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M00146325B1 | 0.035 0.89 | 150 | 8 | Angled |



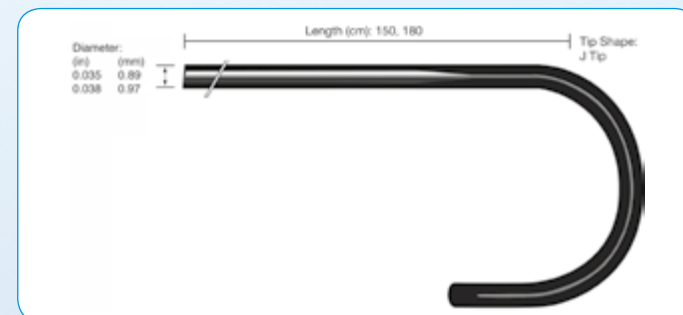
Stiff Long Taper^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M00146318B1 | 0.035 0.89 | 150 | 5 | Angled |
| M00146319B1 | 0.035 0.89 | 260 | 5 | Angled |
| M00146320B1 | 0.035 0.97 | 150 | 5 | Straight |



J-Tip^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M00146350B1 | 0.035 0.89 | 150 | 3 | 3mm J |



^a Packaged 5/box for lengths up to 150cm included.

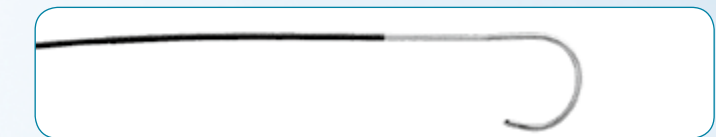
Back-up Meier™ Device Delivery

Steerable Guidewire

- Stiff shaft in stainless steel provides excellent support, while flexible tip reduces the risk of vessel trauma during diagnostic and interventional procedures including AAA endovascular graft procedures
- Highly radiopaque gold-plated tungsten spring coil tip for a good visualization

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper* (cm) | Tip Shape |
|----------------------|--------------------|-------------|-----------------|-----------|
| H965SCH306001 | 0.035 0.89 | 185 | 16 | J |
| H965SCH306011 | 0.035 0.89 | 300 | 11 | C |

* 185 cm has 16cm radiopaque tip
300 cm has 11 cm radiopaque tip



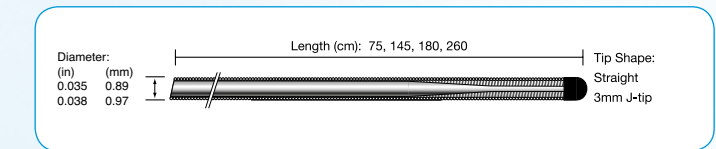
Amplatz Super Stiff™ Device Delivery

Guidewire

- Stainless steel flat coiled wire construction to increase strength for easier access and better stability
- PTFE coating and atraumatic soft floppy tip
- 3 cm shapeable distal tip
- Indicated for catheter placement and exchange. Ideal for contralateral approach.

Straight^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M001465631 | 0.035 0.89 | 75 | 7 | Straight |
| M001465231 | 0.035 0.89 | 145 | 7 | Straight |
| M001465251 | 0.035 0.89 | 180 | 7 | Straight |
| M001465261 | 0.035 0.89 | 260 | 7 | Straight |
| M001465641 | 0.038 0.97 | 75 | 6 | Straight |
| M001465171 | 0.038 0.97 | 145 | 6 | Straight |
| M001465191 | 0.038 0.97 | 180 | 6 | Straight |
| M001465201 | 0.038 0.97 | 260 | 6 | Straight |



Short Tip^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M001465091 | 0.035 0.89 | 260 | 1 | Straight |
| M001465241 | 0.035 0.89 | 145 | 4 | Straight |
| M001465101 | 0.038 0.97 | 260 | 1 | Straight |
| M001465181 | 0.038 0.97 | 145 | 4 | Straight |

3mm J^c

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|--------------------|-------------|----------------|-----------|
| M001465001 | 0.035 0.89 | 145 | 7 | 3mm J |
| M001465011 | 0.035 0.89 | 180 | 7 | 3mm J |
| M001465021 | 0.035 0.89 | 260 | 7 | 3mm J |
| M001465031 | 0.038 0.97 | 145 | 6 | 3mm J |
| M001465041 | 0.038 0.97 | 180 | 6 | 3mm J |

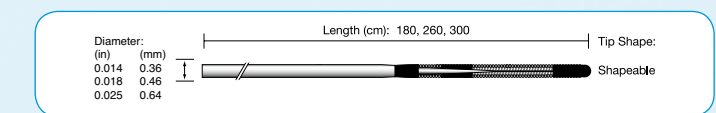
Platinum Plus™ Device Delivery

Guidewire with Mediglide™ Silicone Coating

- Extra support wire for device delivery
- Distal platinum coils for good visualization
- Indicated for negotiation of tortuous anatomy and contralateral approaches including smaller vessels and those with short distal purchase

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper* (cm) | Tip Shape |
|----------------------|--------------------|-------------|-----------------|-----------|
| M001466100 | 0.025 0.64 | 180 | Short | Straight |
| M001466050 | 0.025 0.64 | 260 | Short | Straight |

* 9cm Radiopaque Tip



Thruway™ Navigating

Peripheral Guidewire^a

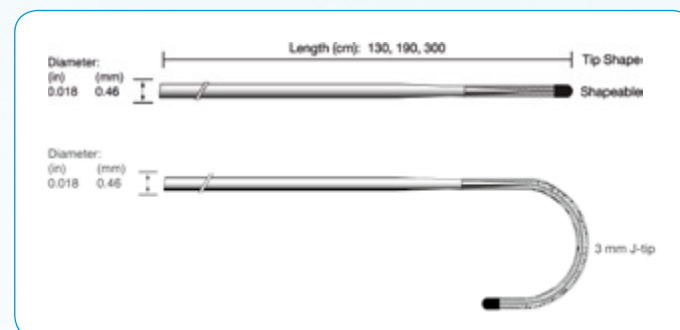
- Combining precision and strength
- Secure control when sub-selecting distal and angulated branch vessels
- Indicated for diagnostic and interventional intravascular procedures, above all for renal intervention

| UPN - Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper* | Tip Shape |
|----------------------|---------------|---------------|-------------|-----------------------------------|-----------|
| M001492751 | 0.018 | 0.46 | 130 | Short | Straight |
| M001492761 | 0.018 | 0.46 | 130 | Short | J |
| M001492771 | 0.018 | 0.46 | 130 | Long | Straight |
| M001492781 | 0.018 | 0.46 | 130 | Long | J |
| M001492791 | 0.018 | 0.46 | 190 | Short | Straight |
| M001492801 | 0.018 | 0.46 | 190 | Short | J |
| M001492811 | 0.018 | 0.46 | 190 | Long | Straight |
| M001492831 | 0.018 | 0.46 | 300 | Short | Straight |
| M001492841 | 0.018 | 0.46 | 300 | Short | J |
| M001492851 | 0.018 | 0.46 | 300 | Long | Straight |
| H74922150010 | 0.014 | 0.36 | 145 | Trooper Patriot™ Extension Wire** | |

* Short and Long Tapered have a 5 cm platinum radiopaque distal coil followed by three platinum radiopaque marker bands spaced 5 millimeters apart

** Compatible with 130 cm and 190 cm Thruway™ Guidewires

Note: Thruway™ Guide Wires have brachial and femoral markers located on the proximal segment of the guidewire to aid in estimating a guidewire position



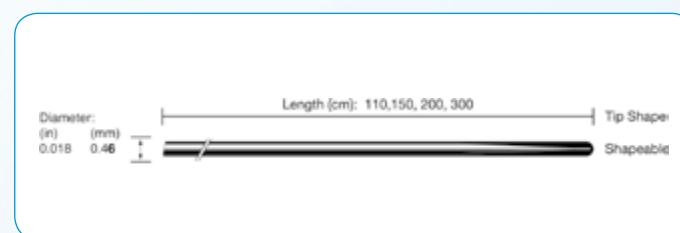
V-18™ ControlWire™ Crossing

Guidewire with ICE™ Hydrophilic Coating^a

- Offers the choice of two tip loads (6g & 8g) options with an excellent balance between rail support and distal flexibility
- Indicated for crossing stenosed lesions and occlusions

| UPN - Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper* | Tip Shape |
|----------------------|---------------|---------------|-------------|------------|-----------|
| M001468480 | 0.018 | 0.46 | 110 | Short | Straight |
| M001468500 | 0.018 | 0.46 | 150 | Short | Straight |
| M001468560 | 0.018 | 0.46 | 150 | Long | Straight |
| M001468520 | 0.018 | 0.46 | 200 | Short | Straight |
| M001468580 | 0.018 | 0.46 | 200 | Long | Straight |
| M001468540 | 0.018 | 0.46 | 300 | Short | Straight |
| M001468600 | 0.018 | 0.46 | 300 | Long | Straight |

* Short taper has 8 cm radiopaque tip
Long taper has 12 cm radiopaque tip



^a Packaged 1/box
^b Packaged 5/box

Victory™ Crossing

Guidewires^a

- Designed to break through and cross resistant lesions, offering increasing tip loads from 12 g to 30 g for control and a range of pushability
- Shapeable distal tip
- Hydrophilic distal coating
- Indicated for intraluminal crossing of chronic total occlusions

| UPN - Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Length* (cm) | Tip Load (g) |
|----------------------|---------------|---------------|-------------|------------------|--------------|
| H74939232195120 | 0.018 | 0.46 | 195 | 2.5 | 12 |
| H74939232300120 | 0.018 | 0.46 | 300 | 2.5 | 12 |
| H74939232195180 | 0.018 | 0.46 | 195 | 2 | 18 |
| H74939232300180 | 0.018 | 0.46 | 300 | 2 | 18 |
| H74939233195250 | 0.018 | 0.46 | 195 | 2 | 25 |
| H74939233300250 | 0.018 | 0.46 | 300 | 2 | 25 |
| H74939233195300 | 0.018 | 0.46 | 195 | 2 | 30 |
| H74939233300300 | 0.018 | 0.46 | 300 | 2 | 30 |

*2 cm or 2.5 cm radiopaque tip length

ZIPWire™ Crossing

Hydrophilic Guidewire^b

- Secure control when sub-selecting distal and angulated branch vessels
- Excellent visibility for accurate positioning
- Excellent kink-resistance
- Indicated for enhance steerability and control for maneuvering through difficult anatomy

| UPN - Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|----------------|-----------|
| M00146231B1 | 0.018 | 0.46 | 150 | 3 | Angled |
| M00146232B1 | 0.018 | 0.46 | 180 | 3 | Angled |
| M00146235B1 | 0.018 | 0.46 | 150 | 3 | Straight |
| M00146236B1 | 0.018 | 0.46 | 180 | 3 | Straight |



Platinum Plus™ Device Delivery

Guidewire

- Extra support wire for device delivery
- Distal platinum coils for good visualization
- Indicated for negotiation of tortuous anatomy and contralateral approaches including smaller vessels and those with short distal purchase

Guidewires with Mediglide™ Silicone Coating – Long tip

| UPN - Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper* (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|-----------------|-----------|
| M001466000 | 0.018 | 0.46 | 145 | Long | Straight |
| M001466010 | 0.018 | 0.46 | 180 | Long | Straight |
| M001466020 | 0.018 | 0.46 | 260 | Long | Straight |

*15cm radiopaque tip



Guidewires with Mediglide™ Silicone Coating – Short tip

| UPN - Catalog Number | Diameter (in) | Diameter (mm) | Length (cm) | Tip Taper* (cm) | Tip Shape |
|----------------------|---------------|---------------|-------------|-----------------|-----------|
| M001466040 | 0.018 | 0.46 | 180 | Short | Straight |
| M001466050 | 0.018 | 0.46 | 260 | Short | Straight |

*7cm radiopaque tip



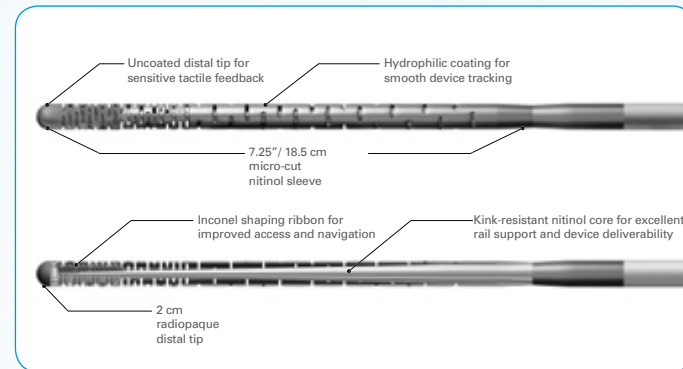
Journey™ Navigating

Peripheral Guidewire^a

- Designed to exceed conventional guidewire performance by providing far superior torque control and so a great navigability without compromising flexibility.
- Indicated for navigating highly tortuous, distal and difficult-to-access anatomy

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper* (cm) | Tip Shape |
|----------------------|--------------------|-------------|-----------------|-----------|
| M001391260 | 0.014 0.36 | 185 | 7 | Straight |
| M001391270 | 0.014 0.36 | 185 | 7 | Angled |
| M001391280 | 0.014 0.36 | 300 | 7 | Straight |
| M001391290 | 0.014 0.36 | 300 | 7 | Angled |

*2 cm radiopaque tip



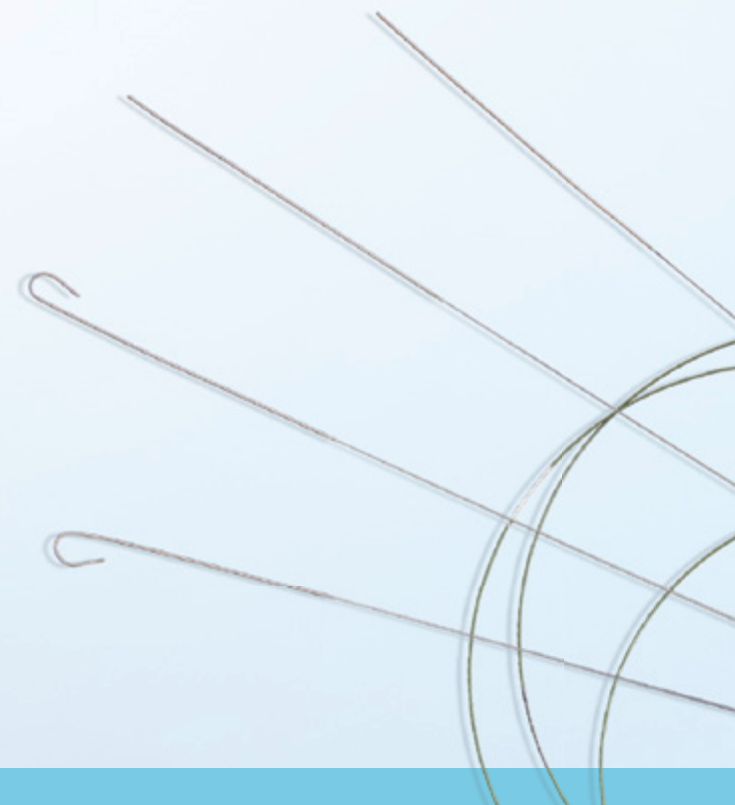
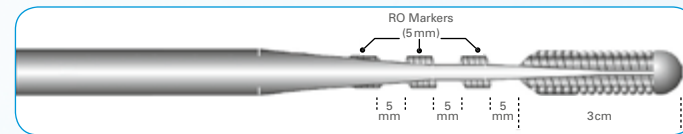
Thruway™ Navigating

Peripheral Guidewire^a

- Combining precision and strength
- Secure control when sub-selecting distal and angulated branch vessels
- Indicated for diagnostic and interventional intravascular procedures, above all for renal intervention

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper* | Tip Shape |
|----------------------|--------------------|-------------|------------|-----------|
| M001492871 | 0.014 0.36 | 130 | Short | Straight |
| M001492881 | 0.014 0.36 | 130 | Short | J |
| M001492891 | 0.014 0.36 | 130 | Long | Straight |
| M001492911 | 0.014 0.36 | 130 | Extra Long | Straight |
| M001492921 | 0.014 0.36 | 190 | Short | Straight |
| M001492931 | 0.014 0.36 | 190 | Short | J |
| M001492941 | 0.014 0.36 | 190 | Long | Straight |
| M001492971 | 0.014 0.36 | 300 | Short | Straight |
| M001492981 | 0.014 0.36 | 300 | Long | Straight |

* Short and Long Tapered have a 3 cm platinum radiopaque distal coil followed by three platinum radiopaque marker bands spaced 5 mm apart. Extra Long Tapered Guides have a platinum 5 cm radiopaque distal coil followed by four platinum radiopaque marker bands spaced 5 mm apart
 Note: Thruway™ Guide Wires have brachial and femoral markers located on the proximal segment of the guidewire to aid in estimating a guidewire position relative to the distal guide catheter tip



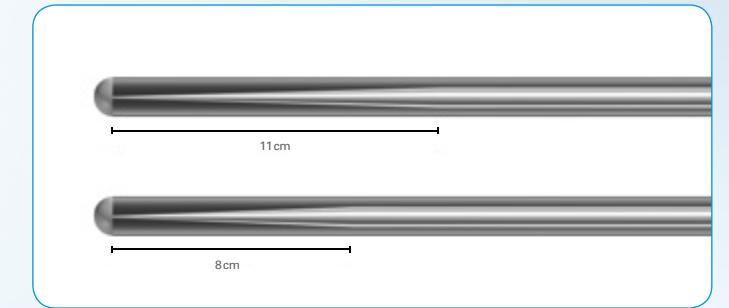
V-14™ ControlWire™ Crossing

Guidewire with ICE™ Hydrophilic Coating^a

- Offers the choice of two tip loads options with an excellent balance between rail support and distal flexibility
- Indicated for crossing stenosed lesions and occlusions

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper* | Tip Shape |
|----------------------|--------------------|-------------|------------|-----------|
| H74939216718210 | 0.014 0.36 | 182 | Short | Straight |
| H74939216718220 | 0.014 0.36 | 182 | Short | Angled |
| H74939216730010 | 0.014 0.36 | 300 | Short | Straight |
| H74939216730020 | 0.014 0.36 | 300 | Short | Angled |
| H74939216918210 | 0.014 0.36 | 182 | Long | Straight |
| H74939216918220 | 0.014 0.36 | 182 | Long | Angled |
| H74939216930010 | 0.014 0.36 | 300 | Long | Straight |
| H74939216930020 | 0.014 0.36 | 300 | Long | Angled |

*2 cm radiopaque tip



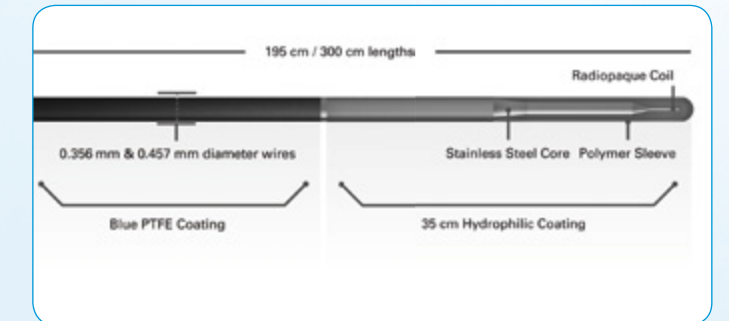
Victory™ Crossing

Guidewires^a

- Designed to break through and cross resistant lesions, offering increasing tip loads from 12 g to 30 g for control and a range of pushability
- Shapeable distal tip
- Hydrophilic distal coating
- Indicated for intraluminal crossing of chronic total occlusions

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Length* (cm) | Tip Load (g) |
|----------------------|--------------------|-------------|------------------|--------------|
| H74939230195120 | 0.014 0.36 | 195 | 2.5 | 12 |
| H74939230300120 | 0.014 0.36 | 300 | 2.5 | 12 |
| H74939230195180 | 0.014 0.36 | 195 | 2.5 | 18 |
| H74939230300180 | 0.014 0.36 | 300 | 2.5 | 18 |
| H74939231195250 | 0.014 0.36 | 195 | 2 | 25 |
| H74939231300250 | 0.014 0.36 | 300 | 2 | 25 |
| H74939231195300 | 0.014 0.36 | 195 | 2 | 30 |
| H74939231300300 | 0.014 0.36 | 300 | 2 | 30 |

*2 cm or 2.5 cm radiopaque tip length



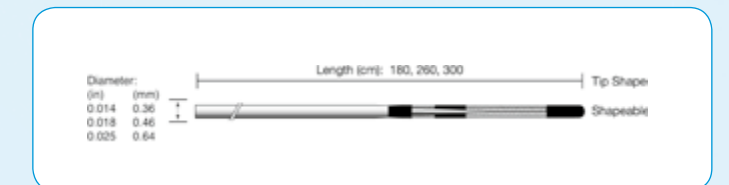
Platinum Plus™ Device Delivery

Guidewire with Glidex™ Hydrophilic Coating^a

- Extra support wire for device delivery
- Distal platinum coils for good visualization
- 8 cm Glidex distal hydrophilic coating
- Indicated for negotiation of tortuous anatomy and contralateral approaches including smaller vessels and those with short distal purchase

| UPN - Catalog Number | Diameter (in) (mm) | Length (cm) | Tip Taper* (cm) | Tip Shape |
|----------------------|--------------------|-------------|-----------------|-----------|
| M001467400 | 0.014 0.36 | 180 | 9 | Straight |
| M001467120 | 0.014 0.36 | 300 | 7 | Straight |

* 5 cm Radiopaque tip length for 180 cm
 3 cm Radiopaque tip length for 300 cm



Rubicon™

Support Catheters

- Enhances lesion access and entry
- Facilitates crossing of tight occlusions & challenging vasculature
- Enables delivery with and exchange of 0.014" (0.36 mm), 0.018" (0.46 mm) & 0.035" (0.89 mm) guidewires

Rubicon 14

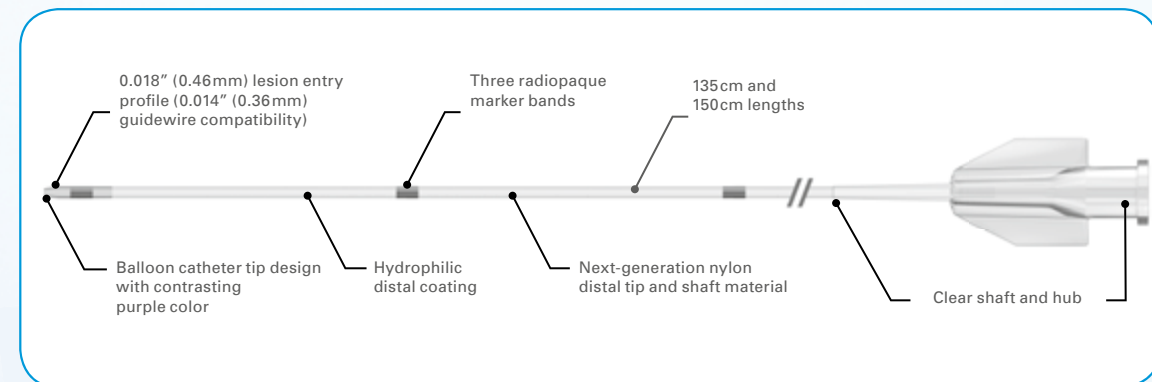
| Order Number | Guidewire Compatibility (in/mm) | Sheath Compatibility | Length (cm) | Tip Shape | Tip Entry Profile | Proximal Shaft Profile | Marker Band Spacing |
|-----------------|---------------------------------|----------------------|-------------|-----------|-------------------|------------------------|---------------------|
| H74939212014131 | 0.014" (0.36 mm) | 4F* | 135 | Straight | 1.4F* | 3.4F* | 15 mm |
| H74939212014151 | 0.014" (0.36 mm) | 4F* | 150 | Straight | 1.4F* | 3.4F* | 15 mm |

Rubicon 18

| Order Number | Guidewire Compatibility (in/mm) | Sheath Compatibility | Length (cm) | Tip Shape | Tip Entry Profile | Proximal Shaft Profile | Marker Band Spacing |
|-----------------|---------------------------------|----------------------|-------------|-----------|-------------------|------------------------|---------------------|
| H74939239018091 | 0.018" (0.46 mm) | 4F* | 90 | Straight | 1.7F* | 4F* | 15 mm |
| H74939239018131 | 0.018" (0.46 mm) | 4F* | 135 | Straight | 1.7F* | 4F* | 15 mm |
| H74939239018151 | 0.018" (0.46 mm) | 4F* | 150 | Straight | 1.7F* | 4F* | 15 mm |

Rubicon 35

| Order Number | Guidewire Compatibility (in/mm) | Sheath Compatibility | Length (cm) | Tip Shape | Tip Entry Profile | Proximal Shaft Profile | Marker Band Spacing |
|-----------------|---------------------------------|----------------------|-------------|-----------|-------------------|------------------------|---------------------|
| H74939240035061 | 0.035" (0.89 mm) | 5F* | 65 | Straight | 2.84F* | 5.1F* | 50 mm |
| H74939240035091 | 0.035" (0.89 mm) | 5F* | 90 | Straight | 2.84F* | 5.1F* | 50 mm |
| H74939240035131 | 0.035" (0.89 mm) | 5F* | 135 | Straight | 2.84F* | 5.1F* | 50 mm |
| H74939240035151 | 0.035" (0.89 mm) | 5F* | 150 | Straight | 2.84F* | 5.1F* | 50 mm |



Rubicon 14 support catheter

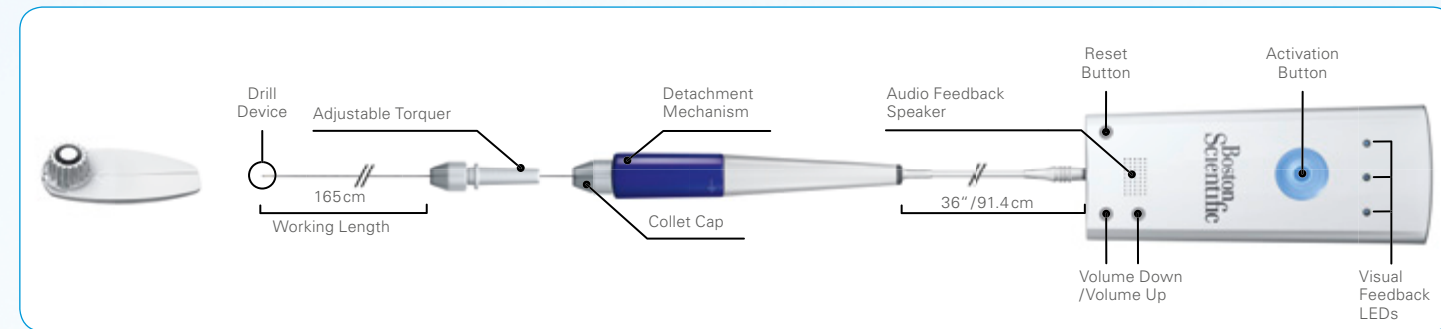


* 1.4F = 0.47 mm (0.019")
 1.7F = 0.57 mm (0.022")
 2.84F = 0.95 mm (0.037")
 3.4F = 1.13 mm (0.044")
 4F = 1.33 mm (0.052")
 5F = 1.67 mm (0.066")
 5.1F = 1.7 mm (0.067")

TruePath™

CTO Device

A powerful new solution for intraluminal treatment of chronic total occlusions. At 0.018"/0.46 mm in diameter, the guidewire-like profile is nearly half the size of competitive offerings, designed for optimal steering and crossing. Once positioned, the self-rotating tip works effortlessly



TruePath™ CTO Device

| Order Number | Description |
|-----------------|----------------------------------|
| H74939208181650 | TruePath CTO Device |
| H74939208001601 | TruePath Extension Wires (5/box) |

TruePath™ Compatibility

| Size OD (in) | Length (mm) | Length (cm) | Sheath Compatibility | | Min. Guide Catheter ID | | Tip Profile | |
|-----------------|----------------|----------------|----------------------|------|------------------------|------|-------------|------|
| | | | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| 0.018 | 0.46 | 165 | 0.018 | 0.46 | 0.014 | 0.36 | 0.017 | 0.43 |

compatible catheters*

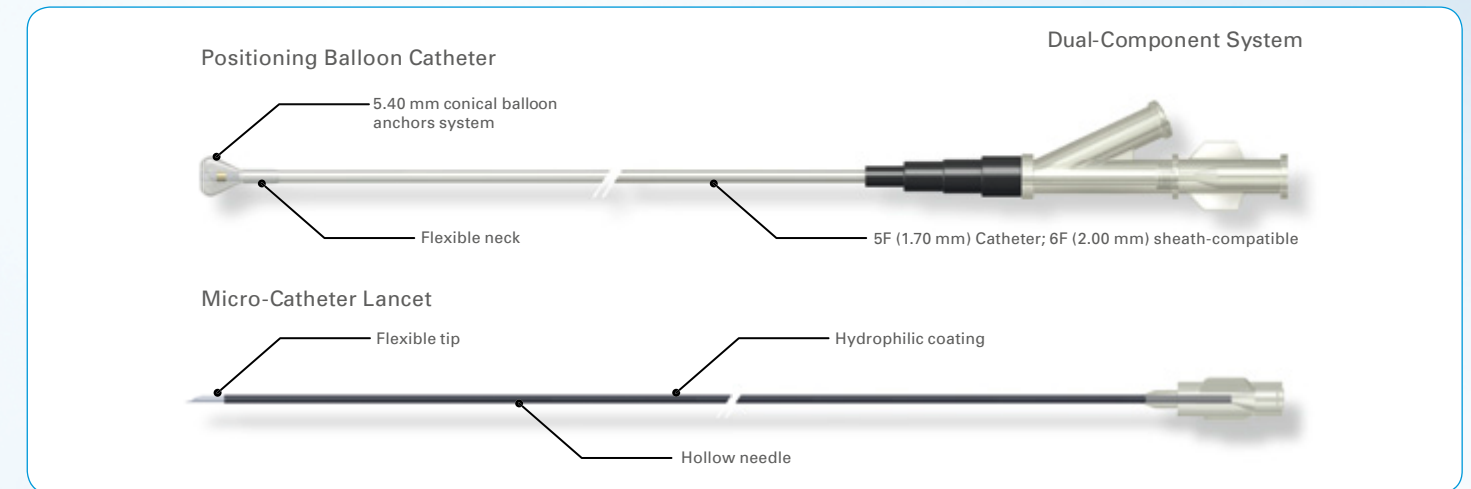
* With usable lengths of ≤ 135 cm



OffRoad™

Re-entry Catheter System

The industry's most elegant dual-component solution for challenging lesions. Re-entry is intuitive as the 5.4 mm articulating Positioning Balloon directs the system, creating a path for the Micro-Catheter Lancet to re-enter the vessel with precision



Compatibility Chart for OffRoad™ Re-entry Catheter – Short (70 cm)

| Order Number | Length (cm) | Catheter Shaft OD (F) (mm) | Nominal Balloon Diameter (mm) | Nominal Inflation Pressure (ATM) (kPa) | Maximum Inflation Pressure (ATM) (kPa) | Sheath Diameter (F) (mm) | Recommended Guidewire OD (in) (mm) |
|-----------------|------------------------------|----------------------------------|----------------------------------|--|--|--------------------------------|--|
| H74939202070540 | Positioning Balloon Catheter | 70 | 5 1.75 | 5.4 | 2 203 | 3.25 329 | 6 2 0.035 0.89 |
| | Micro-Catheter Lancet | 100 | 2.4 0.85 | N/A | N/A | N/A | N/A N/A 0.014* 0.36* |

Compatibility Chart for OffRoad™ Re-entry Catheter – Long (100 cm)

| Order Number | Length (cm) | Catheter Shaft OD (F) (mm) | Nominal Balloon Diameter (mm) | Nominal Inflation Pressure (ATM) (kPa) | Maximum Inflation Pressure (ATM) (kPa) | Sheath Diameter (F) (mm) | Recommended Guidewire OD (in) (mm) |
|-----------------|------------------------------|----------------------------------|----------------------------------|--|--|--------------------------------|--|
| H74939202100540 | Positioning Balloon Catheter | 100 | 5 1.75 | 5.4 | 2 203 | 3.25 329 | 6 2 0.035 0.89 |
| | Micro-Catheter Lancet | 109 | 2.4 0.85 | N/A | N/A | N/A | N/A N/A 0.014* 0.36* |

* Non-Coated. Do not use a 0.014 in (0.36 mm) guidewire that has a polymer (plastic) cover/sleeve with the Micro-Catheter Lancet. If using a 0.014 in (0.36 mm) PTFE coated guidewire, do not manipulate the PTFE coated part of the wire (i.e. back-and-forth movements) beyond the tip of the Micro-Catheter Lancet. Using an inappropriate guidewire may result in damage to the guidewire such as abrasion of the coating, release of polymer fragments or separation of the guidewire.

Recommended Guidewire: Platinum Plus™ Guidewire

| Order Number | Length | | Diameter | |
|--------------|--------|-------|----------|------|
| | (cm) | (in) | (in) | (mm) |
| M001467400 | 180 | 0.014 | 0.014 | 0.36 |
| M001467120 | 300 | 0.014 | 0.014 | 0.36 |





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