

AF SOLUTIONS PRODUCT CATALOGUE EUROPE

2019



Arctic Front Advance™
Cardiac Cryoablation Catheter



PVAC™ GOLD
Pulmonary Vein Ablation Catheter



CardioInsight™
Mapping Vest



Medtronic
Further. Together

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Arctic Front Advance™
Cardiac Cryoablation Catheter

ARCTIC FRONT ADVANCE™

Cardiac Cryoablation Catheter
10.5 Fr, 23 mm & 28 mm Balloon Diameter

FLEXCATH ADVANCE™

Steerable Sheath
12 Fr

ACHIEVE™ & ACHIEVE ADVANCE™

Mapping Catheter
15 mm, 20 mm & 25 mm Loop Size

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER

2AF233	Arctic Front Advance 23 mm
2AF283	Arctic Front Advance 28 mm

Catheter Specifications

SIZE

Inflated Balloon Diameter	23 mm or 28 mm
Catheter Size Outer Diameter	10.5 Fr
Total Length	140 cm
Useable Length	95 ± 2 cm
Distal Tip Length	13.5 mm

COMPATIBILITY

Recommended Introducer Sheath	FlexCath Advance 12 Fr
Guidewire Compatibility	0.032"-0.035"

DEFLECTION

Deflection	Bidirectional 45°
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MATERIAL

Tip and Shaft	Biocompatible copolymer (Pebax™) with barium sulfate blend (BaSO4)
Outer Balloon	Polyurethane

INDICATIONS FOR USE

- Treatment of Atrial Fibrillation (AF)

BENEFITS*

- Single shot Cryo technology
- Proven efficacy and safety outcomes
- Reproducible outcomes
- Shorter and more consistent procedure times compared to point-by-point RF ablation

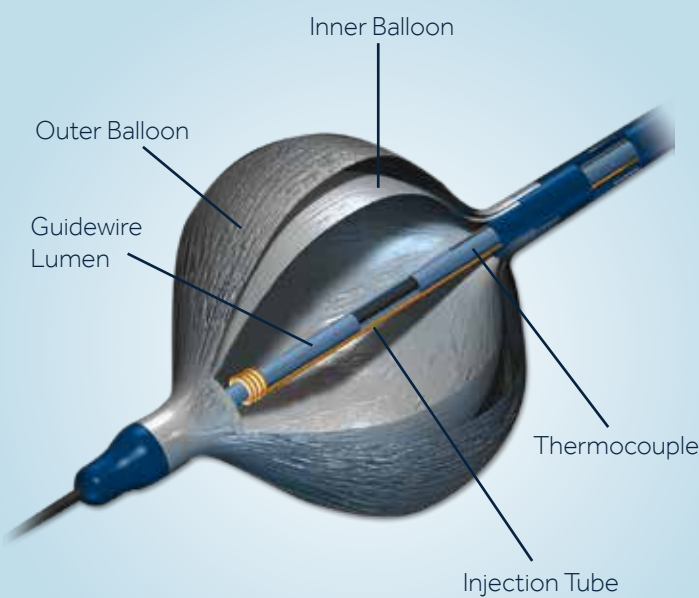
FEATURES

- 2 shaft and 2 radiopaque marker rings to confirm the position of the balloon relative to the FlexCath sheath and patient anatomy
- EvenCool™ Cryo Technology optimizes the delivery of coolant inside the balloon
- A dual balloon structure optimizes safety in the unlikely event that one balloon is compromised

*Refer to the full bibliography.



Arctic Front Advance™
Cardiac Cryoablation Catheter



Arctic Front Advance™
Cardiac Cryoablation Catheter

FLEXCATH ADVANCE™

STEERABLE SHEATH

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
4FC12	FlexCath Advance 12 Fr

Sheath Specifications

SIZE	
Sheath Inner Diameter	12 Fr
Sheath Outer Diameter	15 Fr
Overall Length	81 cm
Useable Length	65 cm

COMPATIBILITY	
Catheter Compatibility	Up to 10.5 Fr
Guidewire Compatibility	0.032"-0.035"

DEFLECTION AND REACH	
Maximum Deflection	Unidirectional 135°
Reach	5.5 cm at 90°

MATERIAL	
Shaft	Biocompatible copolymer (Pebax™) with barium sulfate blend (BaSO4)

DILATOR	
Overall Length	87 cm
Material	Biocompatible low-density polyethylene (LDPE) with barium sulfate blend (BaSO4)

INDICATIONS FOR USE

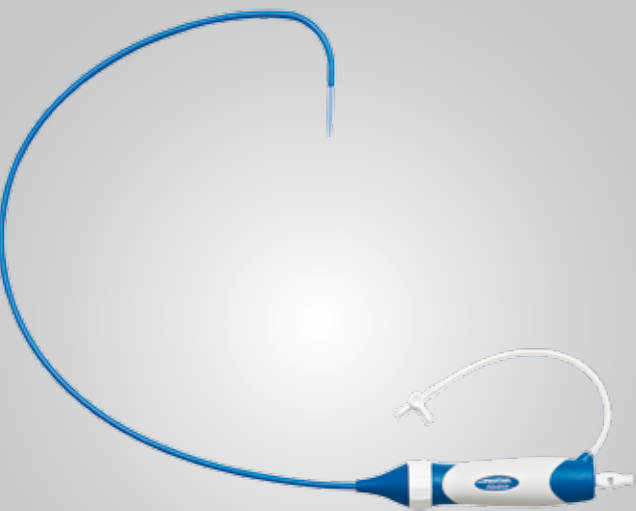
- Percutaneous catheter introduction into the vasculature and into the chambers of the heart

BENEFITS

- Specifically designed and tested for use with Arctic Front Advance™ Cryoballoon

FEATURES

- Hemostasis valve to prevent air ingress and minimize blood loss
- Radiopaque marker band to visually confirm the position of the Cryoballoon within the sheath
- Unidirectional deflection of 135° to improve maneuverability



FlexCath Advance™
Steerable Sheath

ACHIEVE™ AND ACHIEVE ADVANCE™

MAPPING CATHETERS

PRODUCT SPECIFICATIONS

Ordering Information

LOOP SIZE	ACHIEVE™	ACHIEVE™ ADVANCE™
15mm	990063-015	2ACH15
20mm	990063-020	2ACH20
25mm		2ACH25
Connecting cable		2ACHC

Catheter Specifications

SIZE	
Catheter Shaft Size	3.3 Fr, 1.1 mm (0.043")
Total Length	165 cm
Usable Length	146 cm

LOOP			
Loop Size	15 mm	20 mm	25 mm
Number of Electrodes	8	8	10
Electrode Length	1 mm	1 mm	1 mm
Electrode Spacing	4 mm	6 mm	6 mm

COMPATIBILITY	
Compatible Device	Minimum Internal Diameter (ID) of 3.4 Fr, 1.12 mm (0.044")

Cable Specifications

SIZE	
Length	196 cm

INDICATIONS FOR USE

- Multiple electrode EP mapping of cardiac structure

BENEFITS

- Allows for signal recording pre-, peri- and post-Cryo ablation to assess PVI
- Can be used for cardiac stimulation
- Allows single transeptal puncture and reduction/elimination of catheter exchanges

FEATURES

- Circular loop for mapping electrical conduction between LA and PV
- Nitinol circular loop to accommodate various PV anatomies
- Can be used during cardioversion†

† Applies to Achieve™ Advance™

NEW



Achieve Advance™
Mapping Catheter

FREEZOR™ FAMILY CATHETERS

FOCAL CRYOABLATION CATHETERS

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER		
207F1	Freezor 1	Short/Red
207F3	Freezor 3	Medium/Blue
207F5	Freezor 5	Long/Orange
217F1	Freezor Xtra 1	Short/Red
217F3	Freezor Xtra 3	Medium/Blue
217F5	Freezor Xtra 5	Long/Orange
209F3	Freezor MAX 3	Medium/Blue
209F5	Freezor MAX 5	Long/Orange

INDICATIONS FOR USE

- Treatment of cardiac arrhythmias

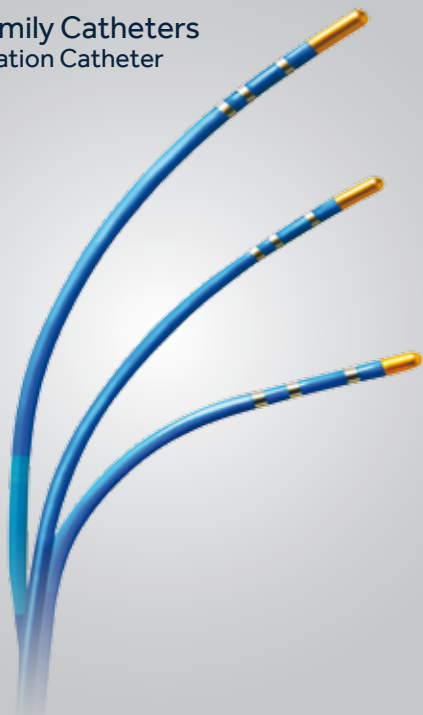
BENEFITS

- Hypothermic site testing to confirm the target ablation site
- Unique catheter stability due to Cryoadhesion resulting in precise lesion creation
- Minimized incidence of thrombus formation
- Minimized risk of damage to cardiac structures
- Minimized patient discomfort

FEATURES

- Allow for 4-pole EGM recording
- Thermocouple integrated in the tip for temperature monitoring
- Various combinations of diameters, tip sizes, and reaches for flexibility to ablate target cardiac arrhythmias (incl. AVNRT, Accessory Pathways, AFL , AF, AT and VT)

Freezor™ Family Catheters
Focal Cryoablation Catheter



FREEZOR™

CARDIAC CRYOABLATION CATHETER

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER		
207F1	Freezor 1	Short/Red
207F3	Freezor 3	Medium/Blue
207F5	Freezor 5	Long/Orange

Catheter Specifications

SIZE	
Tip Length	4 mm
Electrode Spacing	2-5-2
Catheter Diameter	7 Fr
Shaft Length	108 cm
COMPATIBILITY	
Recommended Compatible Introducer	8 Fr
CURVE REACH	
207F1	47 mm
207F3	53 mm
207F5	58 mm

INDICATIONS FOR USE

- Most commonly used in Pediatrics

FEATURES

- Temperature-controlled in CryoMapping mode
- Flow-controlled in Cryoablation mode
- Operating flow: 2.0 – 2.1 L/min

Freezor™
Cardiac Cryoablation Catheter



FREEZOR™ XTRA

CARDIAC CRYOABLATION CATHETER

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER		
217F1	Freezor Xtra 1	Short/Red
217F3	Freezor Xtra 3	Medium/Blue
217F5	Freezor Xtra 5	Long/Orange

Catheter Specifications

SIZE	
Tip Length	6 mm
Electrode Spacing	2-5-2
Catheter Diameter	7 Fr
Shaft Length	108 cm
COMPATIBILITY	
Recommended Compatible Introducer	8 Fr
CURVE REACH	
217F1	49 mm
217F3	55 mm
217F5	60 mm

MOST COMMONLY USED FOR SVTs:

- AVNRT
- Accessory Pathways
- Ectopic AT

FEATURES

- CryoMapping mode - reduce the risk of undesired cardiac damage
- Flow-controlled in CryoAblation mode
- Operating flow: 2.5 – 2.7 L/min

Freezor™ Xtra
Cardiac Cryoablation Catheter



FREEZOR™ MAX

CARDIAC CRYOABLATION CATHETER

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER		
209F3	Freezor MAX 3	Medium/Blue
209F5	Freezor MAX 5	Long/Orange

Catheter Specifications

SIZE	
Tip Length	8 mm
Electrode Spacing	3-5-2
Catheter Diameter	9 Fr
Shaft Length	90 cm
COMPATIBILITY	
Recommended Compatible Introducer	10 Fr
CURVE REACH	
209F3	55 mm
209F5	66 mm

USED WHEN LARGER LESIONS ARE REQUIRED, MAINLY FOR:

- AFI
- RVOT
- VT
- AF

FEATURES

- Flow-controlled
- Operating flow: 3.5 – 3.6 L/min

Freezor™ MAX
Cardiac Cryoablation Catheter



PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
106E2	CryoConsole Gen V RoHS configured for use with the Arctic Front Advance and Freezor Family catheters

Console Specifications

SIZE	
Height (Max)	157 cm (62")
Height (Min)	126 cm (52")
Depth	59 cm (23")
Width	55 cm (22")
Weight	131 kg (without nitrous oxide tank)

OTHER SPECIFICATIONS

Operation Temperature and Humidity Limitations	15 °C to 30 °C at altitudes less than 2400 meters above sea level at humidity between 30% and 75%
Refrigerant Specifications	Liquefied N2O 99.5% purity with humidity level < 50 ppm

INDICATIONS FOR USE

- Management of the delivery, recovery, and disposal of N₂O during cryoablation procedures

BENEFITS

- Advanced technology for efficient operation
- Flexible and ergonomic
- Intuitive operation

FEATURES

- Ergonomic design
- Height-adjustable monitor
- Touch-screen interface



CryoConsole
Cardiac Cryoablation System

Ordering Information

ORDER NUMBER	STERILE ACCESSORIES
203CX	Coaxial Umbilical (each)
203CXC	Coaxial Umbilical (case of 12)
2035U	Electrical Umbilical (each)
2035UC	Electrical Umbilical (case of 12)
20MRK	Manual Retraction Kit
ORDER NUMBER	NON-STERILE ACCESSORIES
2037A	Auto Connection Box
2035W	ECG Cable - Used with Freezor Family Only
1035C	Scavenging Hose Yellow - 6.0 m
1035D	Scavenging Hose Yellow - 7.5 m
1035E	Scavenging Hose Yellow - 9.0 m
1035F	Scavenging Hose Yellow - 12.0 m
1035G	Scavenging Hose Purple - 12.0 m (7.5 mm)
1035H	Scavenging Hose Purple - 12.0 m (5.5 mm)
1038E	Power Cord CE - 2.5 m
1038U	Power Cord UK
1038Y	Power Cord Italy
1036W	Wrench 28.6 mm for CryoConsole
103NE	N ₂ O Refrigerant
113NE	Empty Tank for N ₂ O Refrigerant
AFAKITU	Cryoballoon Procedure Kit (case of 6)

COAXIAL UMBILICAL

- Refrigerant transport to the catheter and vapor recovery to the CryoConsole

ELECTRICAL UMBILICAL

- Electrical connection between catheter and CryoConsole

AUTO CONNECTION BOX

- Electrical interface to the catheter

ECG CABLE

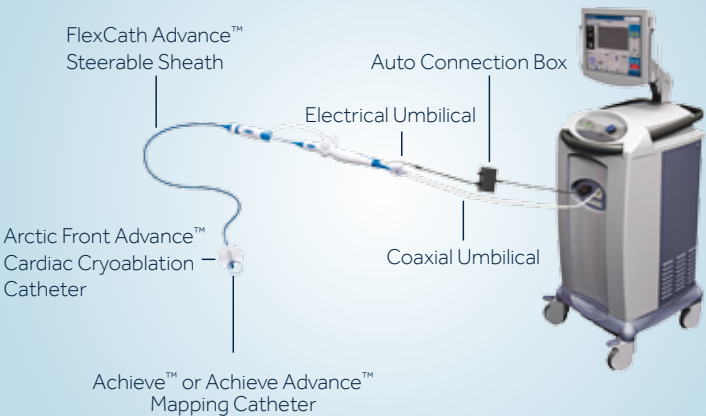
- Interface between focal cryoablation catheter and standard EP system

SCAVENGING HOSE

- Connecting CryoConsole to the hospital gas-s scavenging system

CRYO PROCEDURE KIT

- Sterile kit consisting of commonly used components needed to set up a Cryo AF ablation procedure



PHASED RF PORTFOLIO

PHASED RF TECHNOLOGY



PVAC™ GOLD
Pulmonary Vein Ablation Catheter™

PVAC™ GOLD

Multi-electrode ablation catheter
Ablation, mapping, and pacing through all or selected bipolar pairs

GENIUS™ WITH CONTACT IQ

Multi-Channel RF Generator



GENIUS™
Multi-Channel RF Generator
with Contact IQ

PVAC™ GOLD

PULMONARY VEIN ABLATION CATHETER

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
990078	PVAC™ GOLD

Catheter Specifications

SIZE	
Catheter Size	9 Fr
Total Length	145 cm ± 5 cm
Usable Length	105 cm ± 5 cm
Number of Electrodes	9
Electrode Size	3 mm
Electrode Spacing	3.75 mm
Spiral Diameter	25 mm
Forward Tilt	20°

COMPATIBILITY	
Recommended Introducer Sheath	9.5 Fr or greater inner diameter transseptal sheath
Guidewire Compatibility	0.032" outer diameter, 200 cm length with 3 mm J tip

DEFLECTION AND REACH	
Deflection (Maximum)	Bidirectional 180°
Reach	40 mm at 90°

MATERIAL	
Electrode	100% Gold
Shaft	Braided Pebax™

INDICATIONS FOR USE

- Treatment of symptomatic AF

BENEFITS*

- Control in energy delivery
- Confidence in safe ablation
- Convenience with procedural efficiency
- Consistent predictable outcomes
- Short learning curve
- Single operator system

FEATURES

- Allows mapping, ablating and PVI validation with single catheter
- Over-the-wire stability
- Duty-cycling allows sufficient electrode cooling and accurate temperature measurement
- Phasing - controlled deep and contiguous lesion creation
- Uniform contact and stable positioning

*Refer to the full bibliography.



PVAC™ GOLD
Pulmonary Vein Ablation Catheter

FLEXCATH™ SELECT

STEERABLE SHEATH

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
990065	FlexCath™ Select Steerable Sheath

Sheath Specifications

SIZE	
Sheath Inner Diameter	10 Fr
Sheath Outer Diameter	13 Fr
Overall Length	81 cm
Usable Length	65cm

COMPATIBILITY	
Catheter Compatibility	Medtronic Freezor Family of catheters and devices and Medtronic PVAC™ GOLD catheter
Guidewire Compatibility	0.032"-0.035"
Transseptal Needle	89 cm and 98 cm Merit™ HeartSpan® Transseptal Needle

DEFLECTION AND REACH	
Maximum Deflection	135° with PVAC™ GOLD deployed
Reach	5.5 cm at 90°

MATERIAL	
Shaft	Biocompatible copolymer (Pebax®) with Barium sulfate blend (BaSO4)

DILATOR	
Shape	Pre-curved, included in package
Overall Length	86 cm
Material	Hytrell, silicone coated

INDICATIONS FOR USE

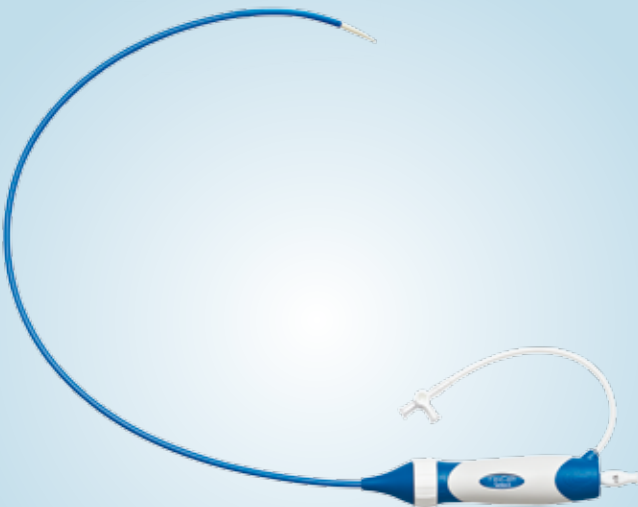
- Percutaneous catheter introduction into the vasculature and chambers of the heart, including the left side of the heart through the interatrial septum

BENEFITS

- One sheath for both transseptal puncture and catheter placement

FEATURES

- SureValve™ technology
- Radiopaque marker band to visually confirm the position of the PVAC™ GOLD within the sheath
- Unidirectional deflection of 135° with PVAC™ GOLD and GW inserted



FlexCath™ Select
Steerable Sheath

GREATBATCH STEERABLE SHEATH

STEERABLE SHEATH

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
10876-002	Greatbatch Steerable Sheath

Catheter Specifications

SIZE	
Catheter Size	9 Fr
Total Length	86 cm
Useable Length	67 cm
Sheath Inner Diameter	9.6 Fr
Sheath Outer Diameter	12.6 Fr

DEFLECTION AND REACH	
Deflection (Maximum)	180°
Reach	3.81 cm at 180°

INDICATIONS FOR USE

- Placement of interventional devices into the peripheral and coronary system

FEATURES

- Single pull-wire steerable platform
- Articulating sheath tip for improved access to difficult-to-reach or tortuous anatomy
- Ergonomic, single-handed operator slide handle with integrated locking mechanism
- Customizable tip, eliminating need for multiple exchanges
- Integrated valve to reduce air embolism and blood loss

ARRIVE™

FIXED CURVE BRAIDED TRANSSEPTAL SHEATH

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	990061 (61cm)	990079 (79cm)
55 Degree	990061-055	990079-055
70 Degree	990061-070	990079-070
90 Degree	990061-090	990079-090
120 Degree	990061-120	990079-120

Sheath Specifications

ORDER NUMBER	990061	990079
Sheath Size	10 Fr	10 Fr
Total Length	63 cm	81 cm
Useable Length	61 cm	79 cm
Curve Profile	55°, 70°, 90° and 120°	55°, 70°, 90° and 120°
Distal Tip Length	3.5 mm	3.5mm

Dilator Specifications

ORDER NUMBER	990061	990079
Total Length	68 cm	86 cm
Usable Length	66 cm	84 cm

Compatibility

ORDER NUMBER	990061	990079
Guidewire Compatibility	0.032" (0.035" max)	0.032" (0.035" max)
Transseptal Needle Compatibility	71 cm	89 cm

INDICATIONS FOR USE

- Percutaneous introduction of various types of cardiovascular catheters to all heart chambers, including LA via TSP

BENEFITS

- One sheath for both TSP and catheter placement

FEATURES

- Hemostasis valve
- Atraumatic tip reduces collateral tissue damage
- Radiopaque marker
- Braided shaft provides 1:1 torque response



Arrive™
Fixed Curve Braided Transseptal Sheath

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
990045	Guidewire PV Tracker

Guidewire Specifications

SIZE	
Length	200 cm (79")
Diameter	0.8 mm (0.032")
MATERIAL	
Material	Stainless steel
Coating	Polytetrafluoroethylene (PTFE)

INDICATIONS FOR USE

- Placement of devices during diagnostic and interventional procedures

BENEFITS

- Provides over-the-wire stability during PVAC™ GOLD procedure

FEATURES

- The dispenser tube fitted with a luer hub to facilitate flushing of GW prior to use
- The "J" tip configuration on the distal end of GW packaged with a "J" straightener to aid in the GW insertion

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
990018	GENius™ with ContactIQ generator

Generator Specifications

SIZE	
Physical Dimensions (H x W x L)	24.13 cm x 44.4 cm x 43.4 cm (9.5" x 17.5" x 17.1")
Weight	17.6 kg (38 lbs)
Input Voltage	120 VAC, 60 Hz / 220–240 VAC, 50 Hz

Accessories

ORDER NUMBER	
990029	GENius™ Jr. remote control
990041	4.6 m (15 ft) remote control cable
990042	7.6 m (25 ft) remote control cable
990028	ECG interface box
990004	Catheter interface cable
990020	ECG interface box cable
990027	ECG 12-lead amplifier cable
990023	Power Cord: Continental Europe
E7506	ValleyLab patient return electrodes (2 required)

INDICATIONS FOR USE

- Delivery of temperature controlled RF energy to user-selectable electrodes on PVAC™ GOLD catheter

BENEFITS

- Controlled energy delivery
- Controlled lesions creation

FEATURES

- Precise temperature & power management
- Electrode contact recognition
- RF energy mode selections: bipolar, unipolar, and combination ratios
- Integrated color monitor display

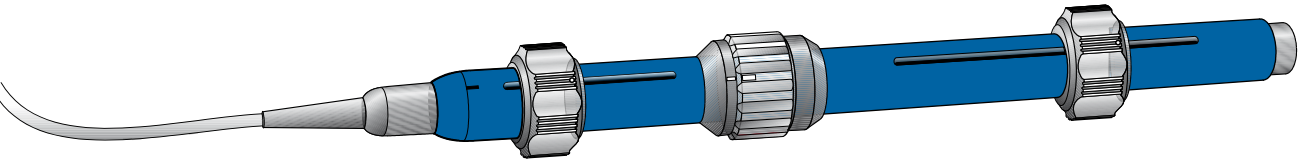


GENius™
Multi-Channel RF Generator
with Contact IQ

CONVENTIONAL EP PORTFOLIO

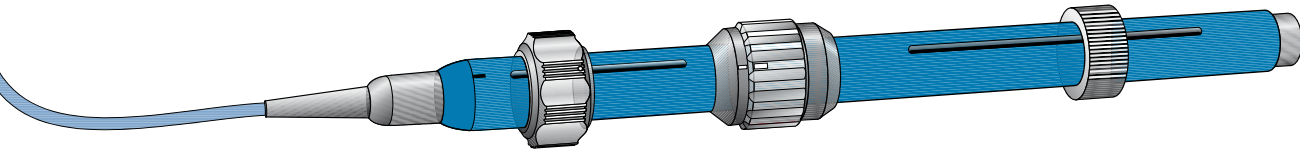
RF CONTACTR™

Dual-Curve
7 French Catheter Shaft



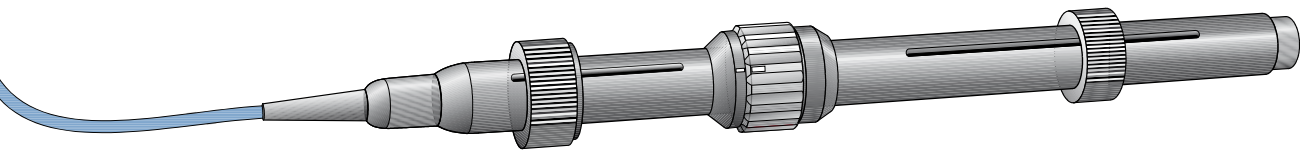
RF CONDUCTR™ MC

Bi-Directional Multi-Curve
7 French Catheter Shaft



RF MARINR™ MC

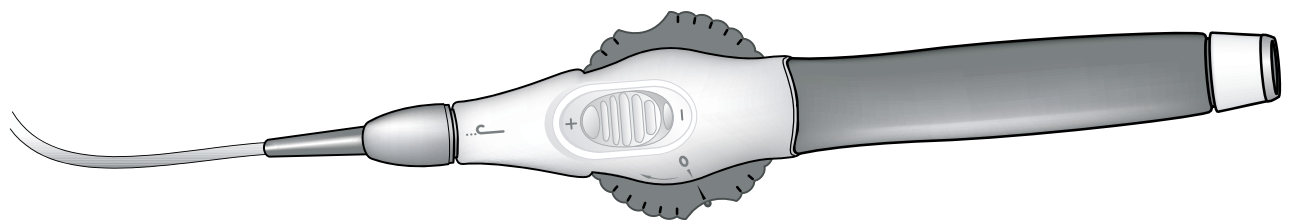
Multi-Curve
7 French Catheter Shaft



ABLATION CATHETERS WITH THERMOCOUPLE TEMPERATURE CONTROL

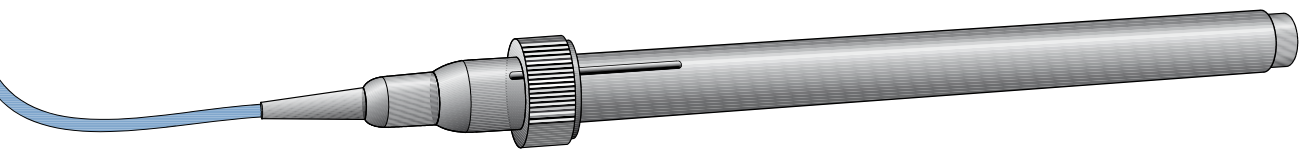
RF ENHANCER™ II

Single-Curve
7 French Catheter Shaft



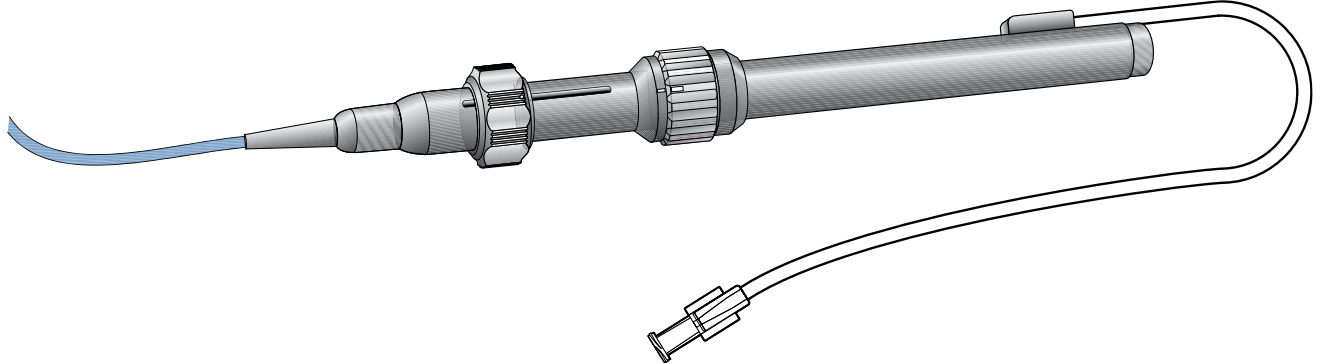
RF MARINR™ 5 Fr

Single-Curve
5 French Catheter Shaft



SPRINKLR™

Single-Curve
Irrigated Tip
7 French Catheter Shaft



RF CONTACTR™

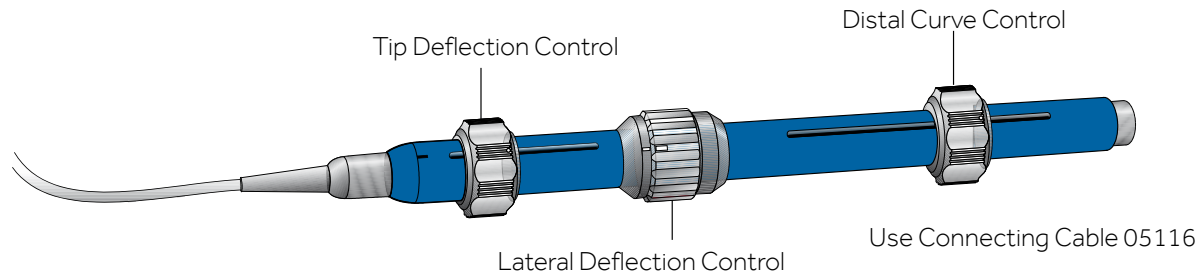
DUAL-CURVE ABLATION CATHETERS

For right AFI procedures

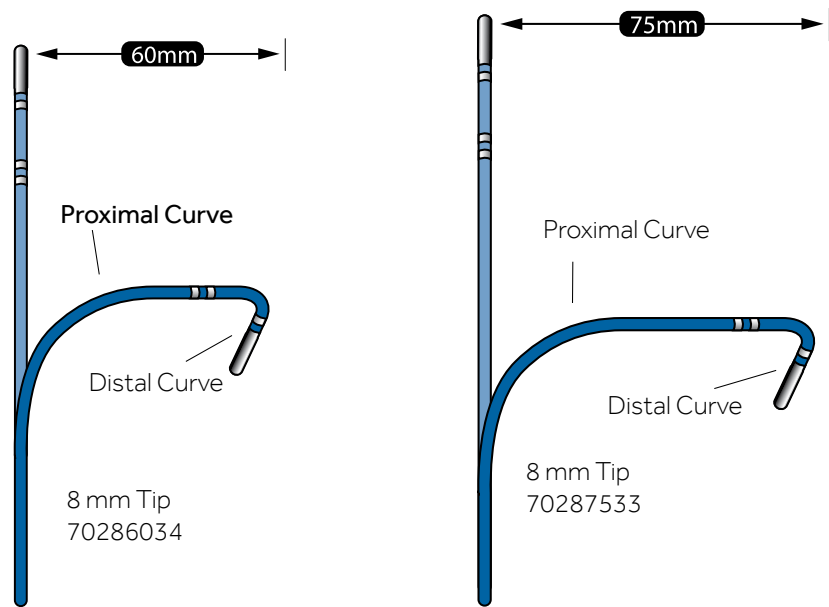
PRODUCT SPECIFICATIONS

ORDER NUMBER	70286034	70287533
Shaft Size (Fr)	7	7
Curve Reach at 90° (mm)	60	75
Shaft Stiffness	Medium	Medium
Tip Stiffness	Firm	Medium
Distal Electrode	8	8
No. of Electrodes	4	4
Electrode Spacing (mm)	2/15/2	2/15/2
Usable Length (cm)	110	110

HANDLE CONTROLS



CURVE REACH AT 90°



RF CONDUCTR™ MC

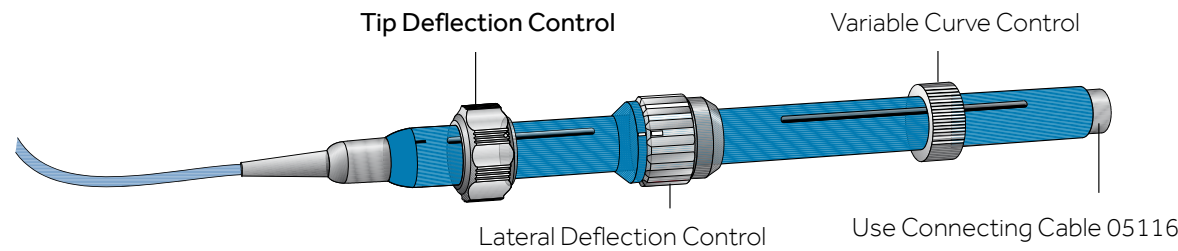
BI-DIRECTIONAL MULTI-CURVE ABLATION CATHETERS

Anatomically optimized bidirectional ablation catheter with multi-curve technology

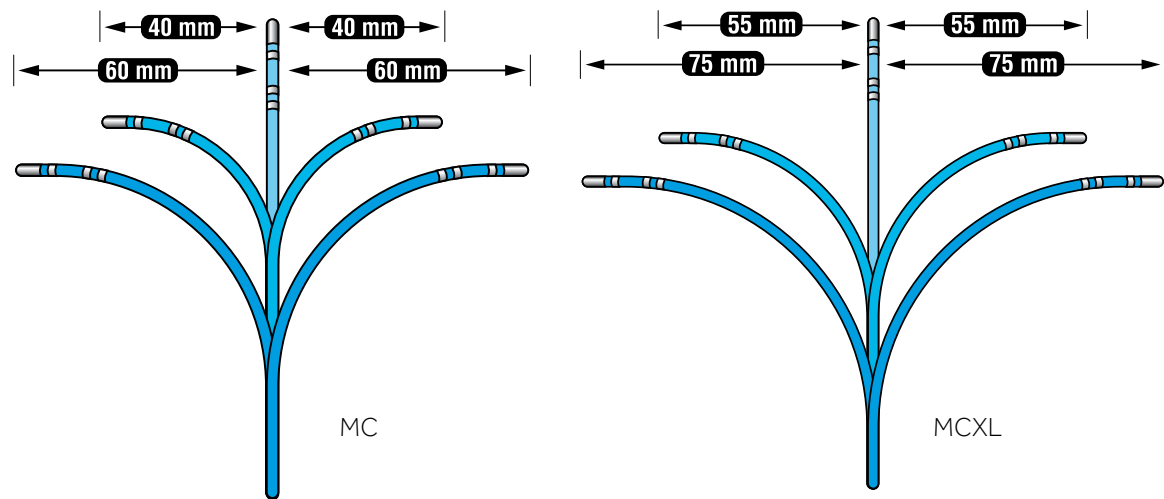
PRODUCT SPECIFICATIONS

ORDER NUMBER	0786042	0786044	0787533	0787544	07886042	07886044	07887544	07887533
Shaft Size (Fr)	7	7	7	7	7	7	7	7
Curve Reach at 90° (mm)	40-60, MC	40-60, MC	55-75, MCXL	55-75, MCXL	40-60, MC	40-60, MC	55-75, MCXL	55-75, MCXL
Shaft Stiffness	Firm	Firm	Medium	Firm	Firm	Firm	Firm	Medium
Tip Stiffness	Soft	Firm	Medium	Firm	Soft	Firm	Firm	Medium
Distal Electrode (mm)	4	4	4	4	8	8	8	8
No. of Electrodes	4	4	4	4	4	4	4	4
Electrode Spacing (mm)	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2
Usable Length (cm)	110	110	110	110	110	110	110	110

HANDLE CONTROLS



CURVE REACH AT 90°



RF MARINR™ MC

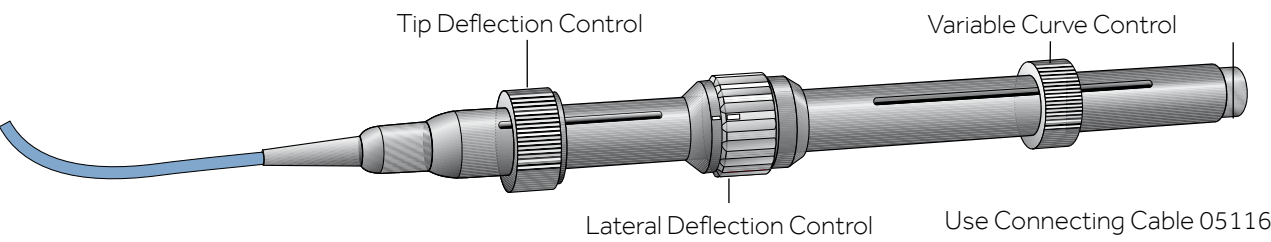
MULTI-CURVE ABLATION CATHETERS

For hard-to-access anatomical locations with its patented lateral deflection and multi-curve capabilities

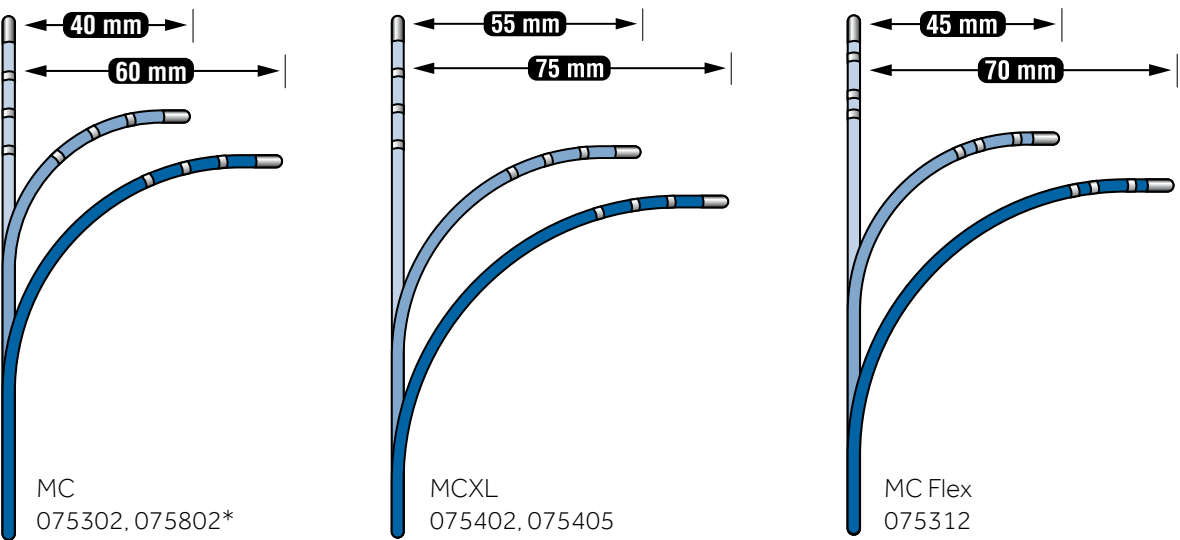
PRODUCT SPECIFICATIONS

ORDER NUMBER	075302	075312	075402	075405	075802*
Shaft Size (Fr)	7	7	7	7	7
Curve Reach at 90° (mm)	40-60, MC	45-70, MC Flex	55-75, MCXL	55-75, MCXL	40-60, MC
Distal Electrode (mm)	4	4	4	4	4
No. of Electrodes	4	4	4	4	4
Electrode Spacing (mm)	2/5/2	2/5/2	2/5/2	5/5/5	2/2/250
Usable Length (cm)	110	112	110	110	110

HANDLE CONTROLS



CURVE REACH AT 90°



* RF Marinr MC Unipolar "Self Reference" has 250 mm spacing between proximal electrode pair.

RF ENHANCER™ II

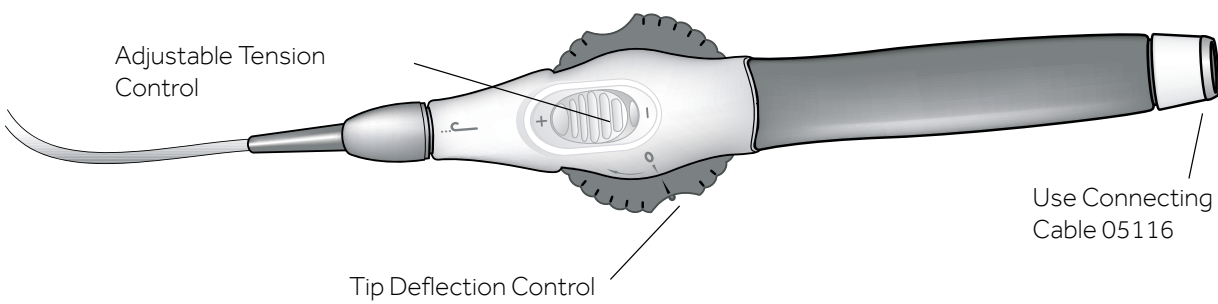
SINGLE-CURVE ABLATION CATHETERS

Intuitive, comfortable, and stable for your everyday SVT procedures

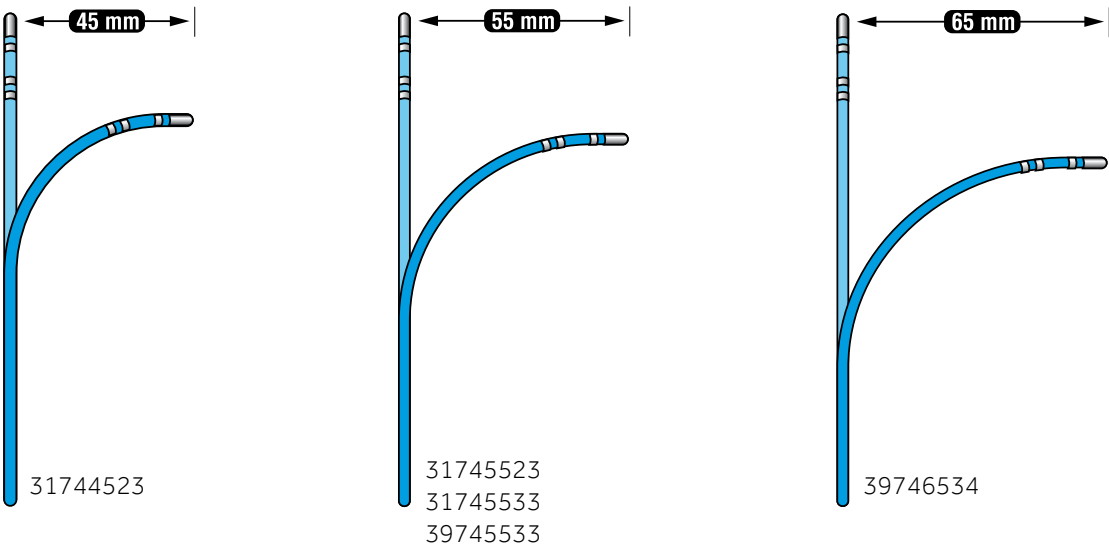
PRODUCT SPECIFICATIONS

ORDER NUMBER	31744523	31745523	31745533	39745533	39746534
Shaft Size (Fr)	7	7	7	7	7
Curve Reach at 90° (mm)	45	55	55	55	65
Shaft Stiffness	Soft	Soft	Medium	Medium	Medium
Tip Stiffness	Medium	Medium	Medium	Medium	Firm
Distal Electrode (mm)	4	4	4	4	4
No. of Electrodes	4	4	4	4	4
Electrode Spacing (mm)	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2
Usable Length (cm)	110	110	110	90	90

HANDLE CONTROLS



CURVE REACH AT 90°



RF MARINR™ 5 FR

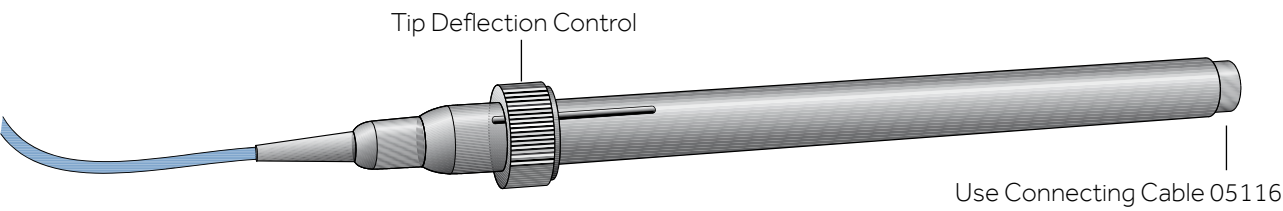
SINGLE-CURVE ABLATION CATHETERS

For small vasculatures, pediatric ablations and challenging spaces

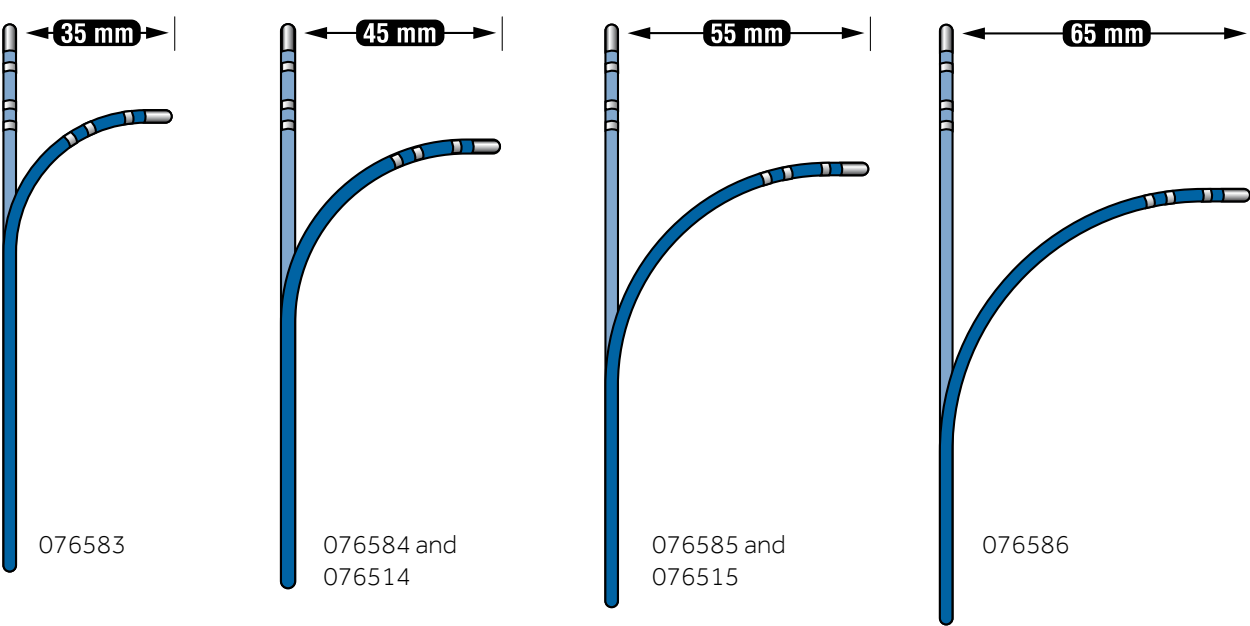
PRODUCT SPECIFICATIONS

ORDER NUMBER	076583	076584	076585	076586	076514	076515
Shaft Size (Fr)	5	5	5	5	5	5
Curve Reach at 90° (mm)	35	45	55	65	45	55
Distal Electrode (mm)	4	4	4	4	4	4
No. of Electrodes	4	4	4	4	4	4
Electrode Spacing (mm)	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2	2/5/2
Usable Length (cm)	80	80	80	80	110	110

HANDLE CONTROLS



CURVE REACH AT 90°



SPRINKLR™

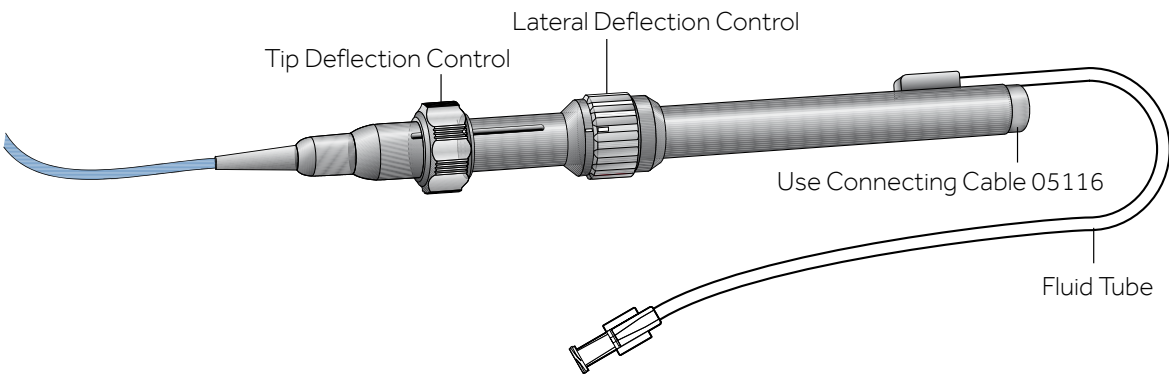
SINGLE-CURVE, IRRIGATED TIP ABLATION CATHETERS

Delivers RF energy with your preferred power settings and the added benefits of irrigation

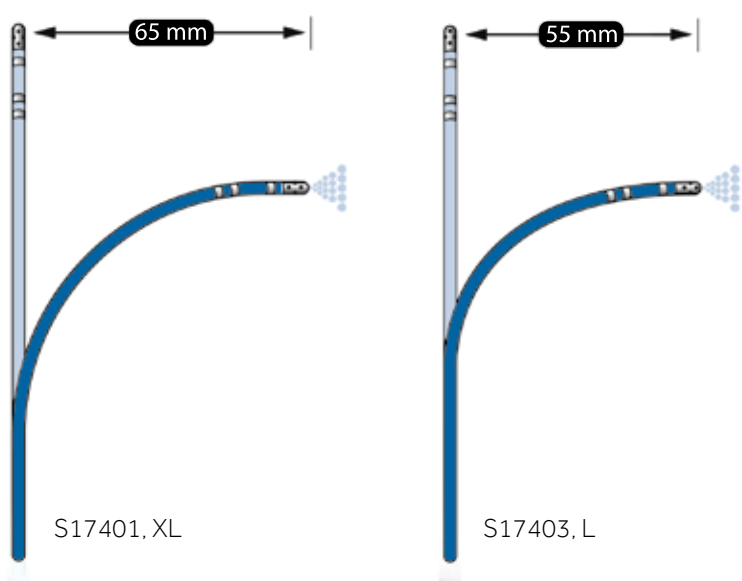
PRODUCT SPECIFICATIONS

ORDER NUMBER	S17401	S17403
Shaft Size (Fr)	7	7
Curve Reach at 90° (mm)	65, XL	55, L
Distal Electrode (mm)	4	4
No. of Electrodes	4	4
Electrode Spacing (mm)	2/5/2	2/5/2
Usable Length (cm)	110	110

HANDLE CONTROLS



CURVE REACH AT 90°

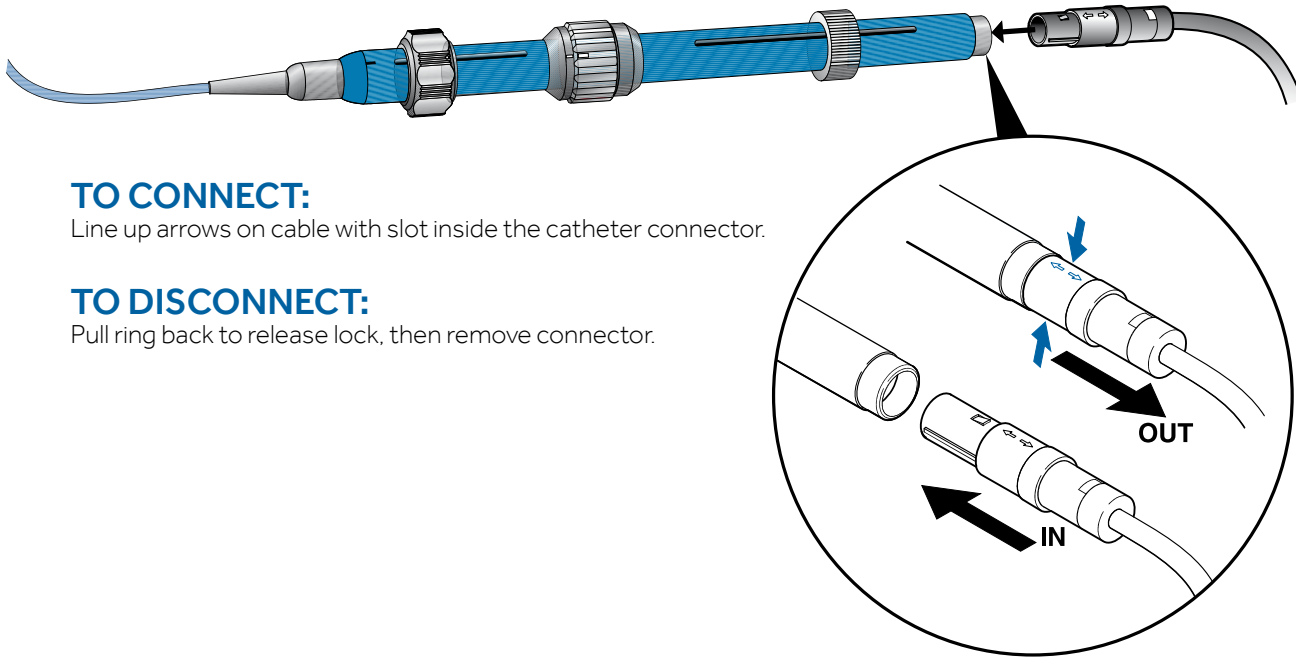


ABLATION CONNECTING CABLES

ATAKR™ FAMILY OF RF ABLATION CONNECTING CABLES

PRODUCT SPECIFICATIONS

ORDER NUMBER	05116	05106S	05106E25
Description	RF Generator to RF Catheter Cable – Sterile	RF Generator to RF Catheter Cable – Sterile	RF Catheter Extension Cable – Non-sterile
Colour	Teal	Teal	Teal
Length	366 cm	183 cm	762 cm
No. of Pins	10	10	10



TO CONNECT:
Line up arrows on cable with slot inside the catheter connector.

TO DISCONNECT:
Pull ring back to release lock, then remove connector.

RF ABLATION GENERATOR

ATAKR™ PLUS RF ABLATION SYSTEM

PRODUCT SPECIFICATIONS

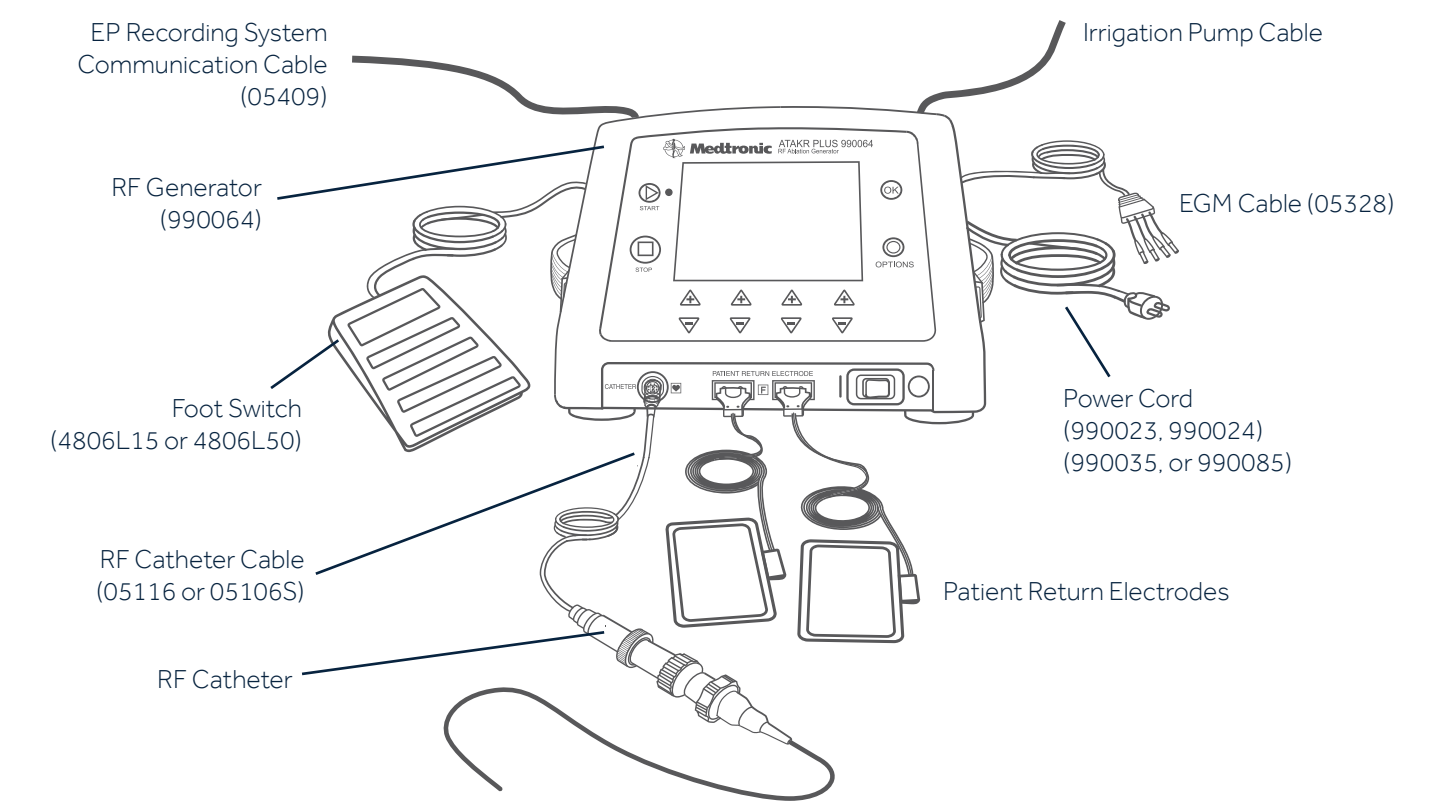
Power Output	1-100 W +/- 7% or 1 W, whichever is greater @ 100 Ω
Impedance Range	40-300 Ω
Operating Tip Temperature	40-80 °C
Operating Frequency	462 kHz +/- 5% @ 100 Ω
Power Supply	100-240 VAC, 50/60 Hz
Dimensions	35 x 28 x 19 cm
Weight	5.9 kg

ORDER NUMBER	SYSTEM INCLUDES
990064	RF Power Generator 100 W (1) Foot Switch (1) RF Catheter Cable, 12 ft (3.66 m), non-sterile (1) EGM Cable, 8 ft (2.44 m), non-sterile (1) Power Cord (1)



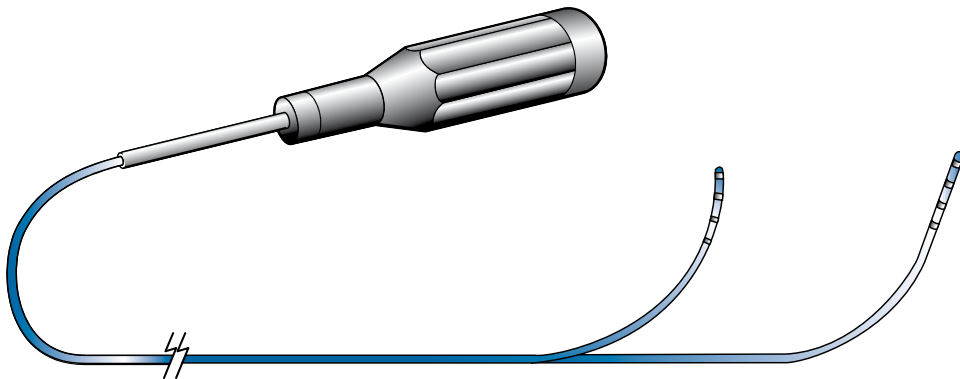
PRODUCT SPECIFICATIONS

ORDER NUMBER	DESCRIPTION
05116	RF Catheter Cable, sterile, 3,66 m (12 ft) - Atakr to RF Catheter
05106S	RF Catheter Cable, Sterile, 1,83 m (6 ft) - Atakr to RF Catheter
05106E25	RF Catheter Extension Cable, non-sterile, 7,62 m (25 ft)
05328	EGM Cable, non-sterile, 2,44 m (8 ft), 4 shrouded pins
05308E25	EGM Extension Cable, non-sterile, 7,62 m (25 ft)
05409	Computer Cable, non-sterile, RS232, for EP Recording System and/or irrigation pump control
4806L15	Foot Switch, Remote Control, non-sterile, 4,57 m (15 ft)
4806L50	Foot Switch, Remote Control, non-sterile, 15,24 m (50 ft)
04821	Medtronic Ablation Catheter Adaptor (RF Cable to BW Stockert)
4825	RF Catheter Adapter Cable (RF Cable to IBI)
E7506	ValleyLab Patient Return Electrode, 2,7 m (9 ft)
990023	Power Cord: Continental Europe



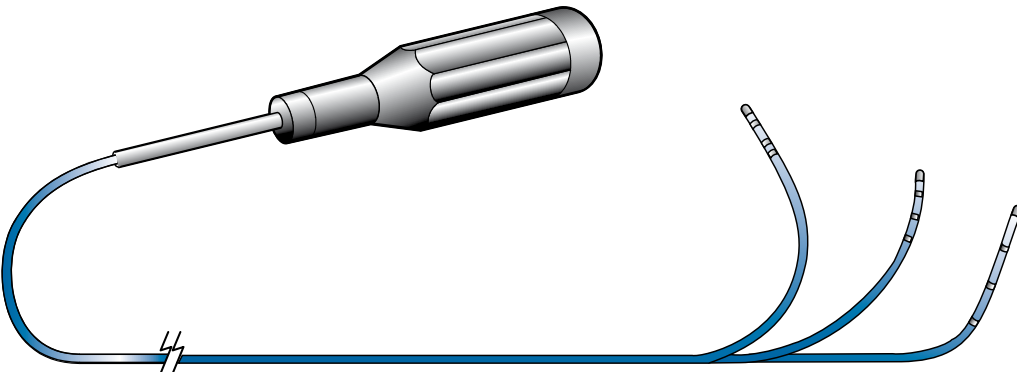
SOLOIST™

Quadripolar
Multi-lumen shaft design
6 French



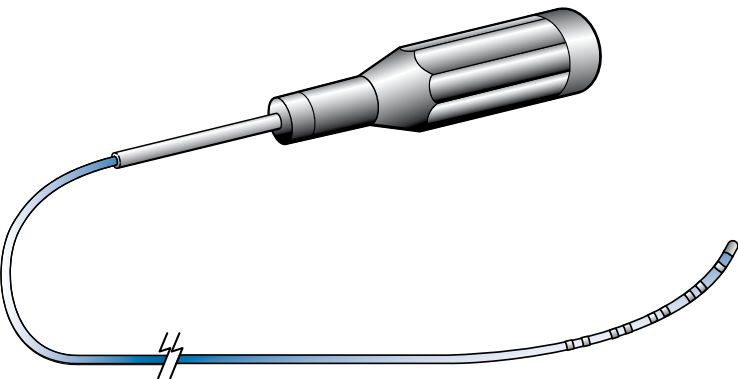
TORQR™

Quadripolar
Braided shaft design
5 and 6 French



TORQR™ CS

Decapolar
5 French



DIAGNOSTIC CATHETERS

STEERABLE

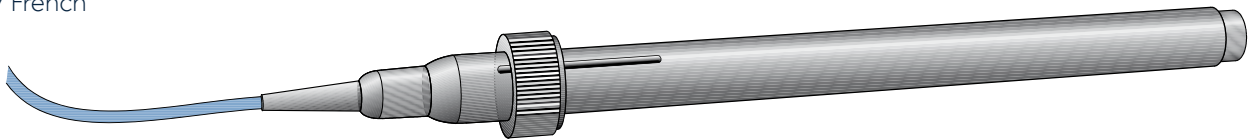
SOLOIST™

FIXED-CURVE DIAGNOSTIC CATHETER

Record and pace from HRA, HIS or RVA

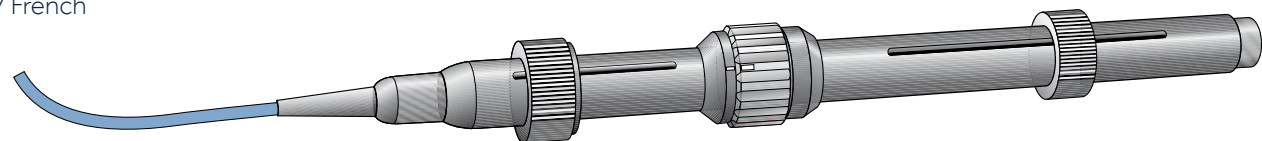
MARINR™ SC XXL

Single-Curve
Quadripolar
7 French



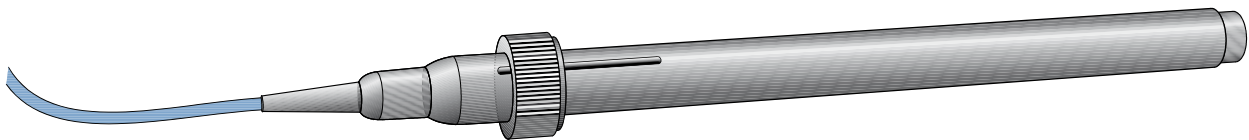
MARINR™ MC and MCXL

Multi-Curve
Quadripolar
7 French



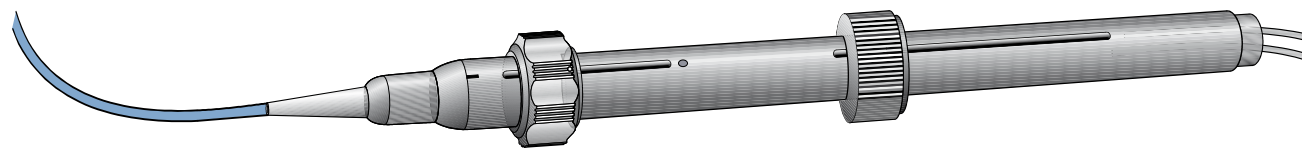
MARINR™ CS

Decapolar
7 French



STABLEMAPR™ SM

Duodecapolar
7 French



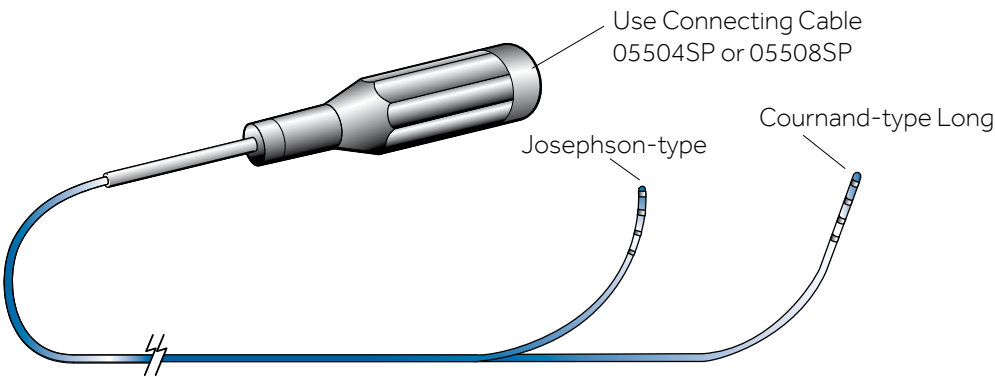
PRODUCT SPECIFICATIONS

Quadripolar

ORDER NUMBER	SHAFT SIZE (Fr)	CURVE TYPE	ELECTRODE SPACING (mm)	NO. OF ELECTRODES	USABLE LENGTH (cm)
44216J	6	Josephson-type	2/5/2	4	110
44216JF	6	Josephson-type Flex	2/5/2	4	110
44516J	6	Josephson-type	5/5/5	4	110
441016JF	6	Josephson-type Flex	10/10/10	4	110
44216U	6	Cournand-type Long	2/5/2	4	110
44516U	6	Cournand-type Long	5/5/5	4	110
441016U	6	Cournand-type Long	10/10/10	4	110

Bipolar

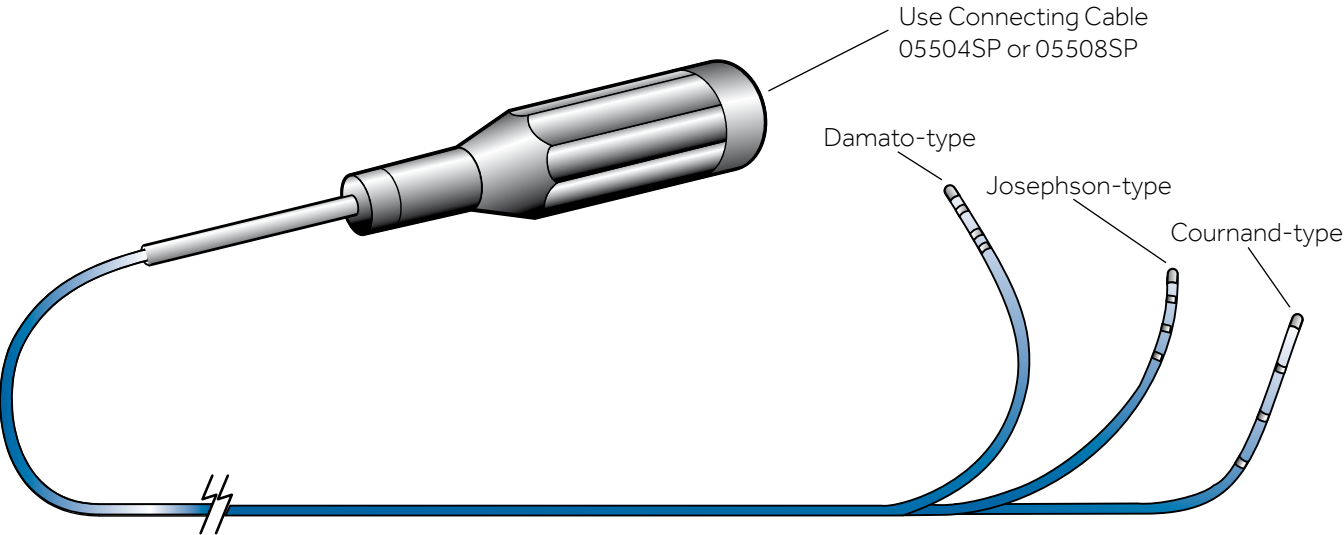
ORDER NUMBER	SHAFT SIZE (Fr)	CURVE TYPE	ELECTRODE SPACING (mm)	NO. OF ELECTRODES	USABLE LENGTH (cm)
448142J	6	Josephson-type	10	2	110
448142CL	6	Cournand-type Long	10	2	110



PRODUCT SPECIFICATIONS

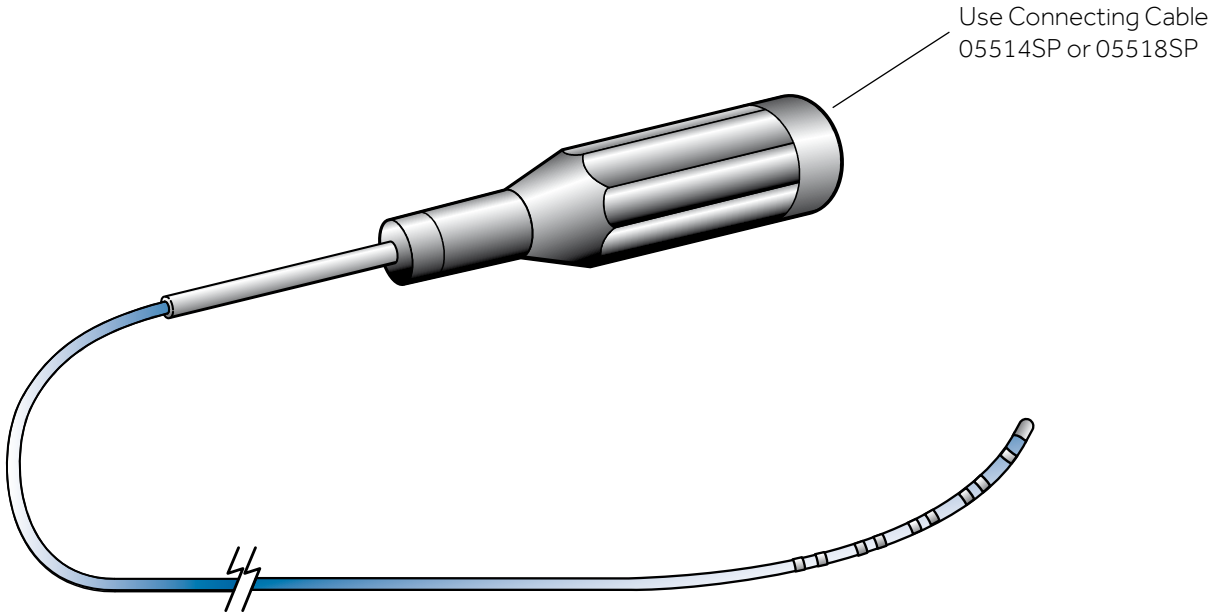
ORDER NUMBER	04122JM	04125JM	04122UM	04125UM	04120DS	041002JM
Shaft Size (Fr)	5	5	5	5	5	6
Curve Type	Josephson-type	Josephson-type	Cournand-type	Cournand-type	Damato-type	Josephson-type
Electrode Spacing (mm)	2/5/2	5/5/5	2/5/2	5/5/5	2/2/2	2/5/2
No. of Electrodes	4	4	4	4	4	4
Usable Length (cm)	110	110	110	110	80	110

ORDER NUMBER	041005JM	041002UM	041005UM	041005DM	041010JM	041010UM
Shaft Size (Fr)	6	6	6	6	6	6
Curve Reach at 90° (mm)	Josephson-type	Cournand-type	Cournand-type	Damato-type	Josephson-type	Cournand-type
Electrode Spacing (mm)	5/5/5	2/5/2	5/5/5	5/5/5	10/10/10	10/10/10
No. of Electrodes	4	4	4	4	4	4
Usable Length (cm)	110	110	110	110	110	110



PRODUCT SPECIFICATIONS

ORDER NUMBER	041565CS	041865CS	041590CS
Shaft Size (Fr)	5	5	5
Curve Type	Coronary Sinus	Coronary Sinus	Coronary Sinus
Electrode Spacing (mm)	2/5/2	2/8/2	2/5/2
No. of Electrodes	10	10	10
Usable Length (cm)	65	65	90



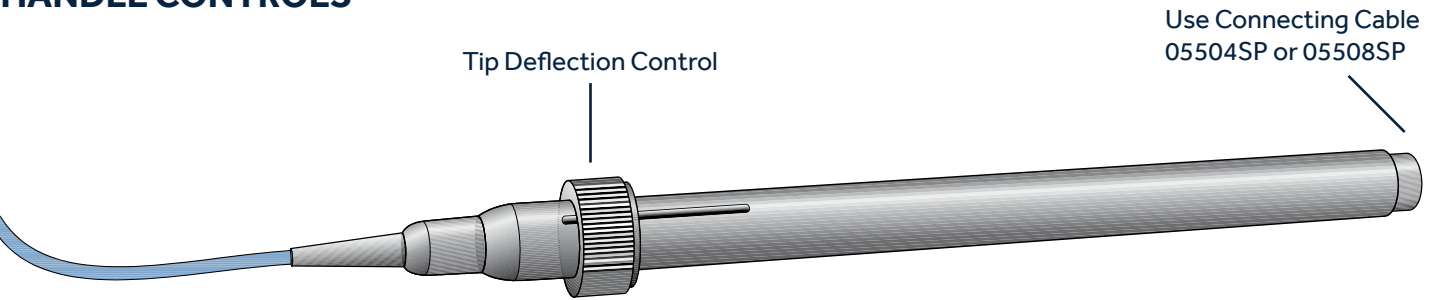
MARINR™ SC XXL
STEERABLE QUADRIPOlar SINGLE-CURVE MAPPING CATHETER

Economical single-curve catheter for conventional mapping

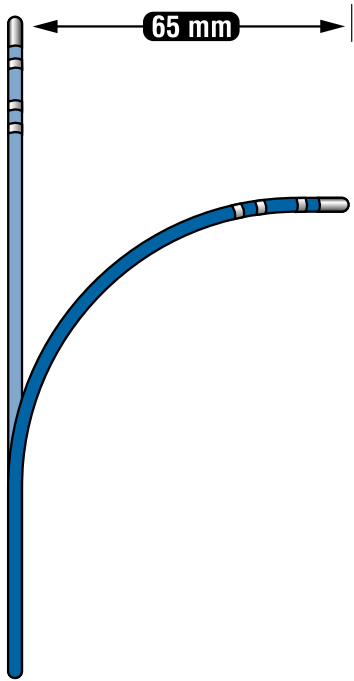
PRODUCT SPECIFICATIONS

ORDER NUMBER	072322M
Shaft Size (Fr)	7
Curve Type	65, XXL
No. of Electrodes	4
Electrode Spacing (mm)	2/5/2
Usable Length (cm)	90

HANDLE CONTROLS



CURVE REACH AT 90°



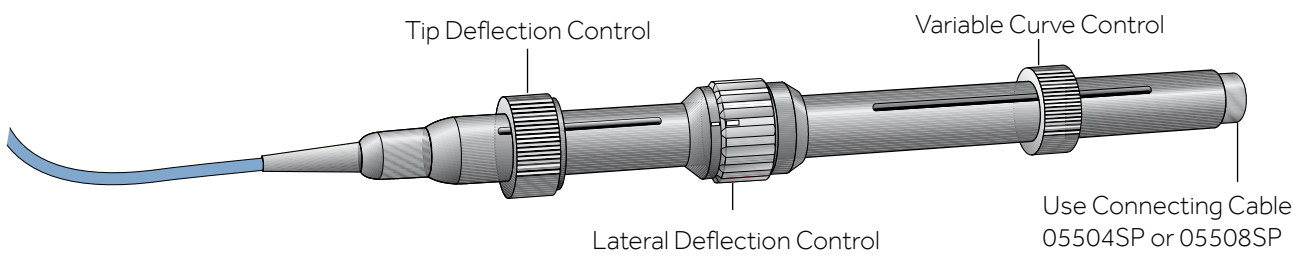
MARINR™ MC & MCXL
STEERABLE MULTI-CURVE MAPPING CATHETERS

Designed to map hard-to-access anatomical location with its patented lateral deflection and multi-curve capabilities

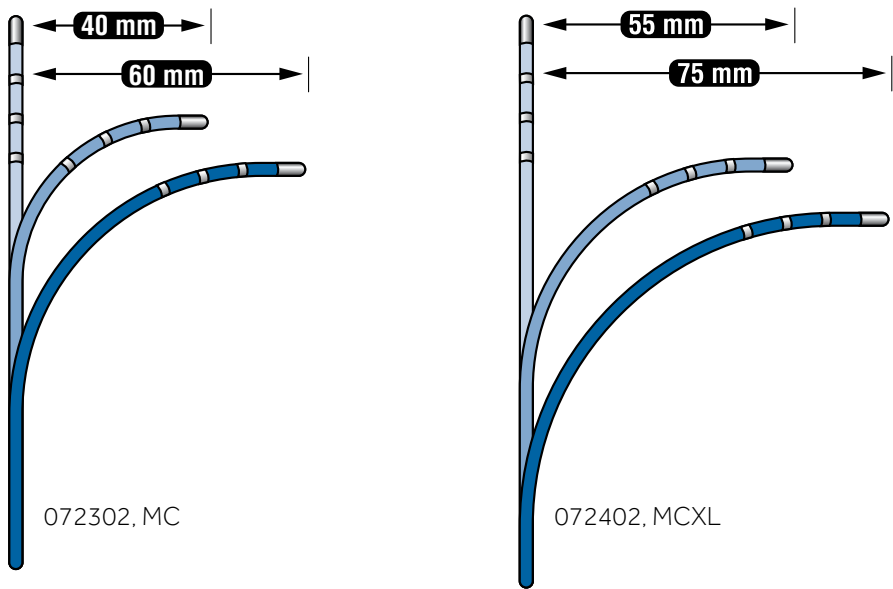
PRODUCT SPECIFICATIONS

ORDER NUMBER	072302	072402
Shaft Size (Fr)	7	7
Curve Reach at 90° (mm)	40-60, MC	55-75, MCXL
Distal Electrode (mm)	4	4
No. of Electrodes	4	4
Electrode Spacing (mm)	2/5/2	2/5/2
Usable Length (cm)	110	110

HANDLE CONTROLS



CURVE REACH AT 90°



MARINR™ CS

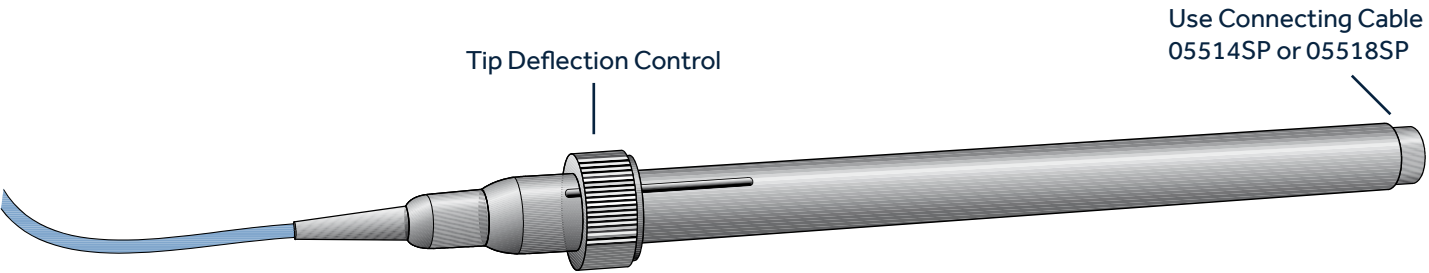
STEERABLE MULTI-CURVE MAPPING CATHETERS

For accessing the CS via a femoral approach

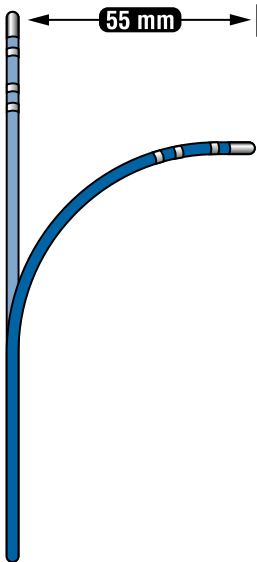
PRODUCT SPECIFICATIONS

ORDER NUMBER	043302M	043325M	043328M
Shaft Size (Fr)	7	7	7
Curve Reach at 90° (mm)	55	55	55
Distal Electrode (mm)	2	2	2
No. of Electrodes	10	10	10
Electrode Spacing (mm)	2/2/2	2/5/2	2/8/2
Usable Length (cm)	90	90	90

HANDLE CONTROLS



CURVE REACH AT 90°



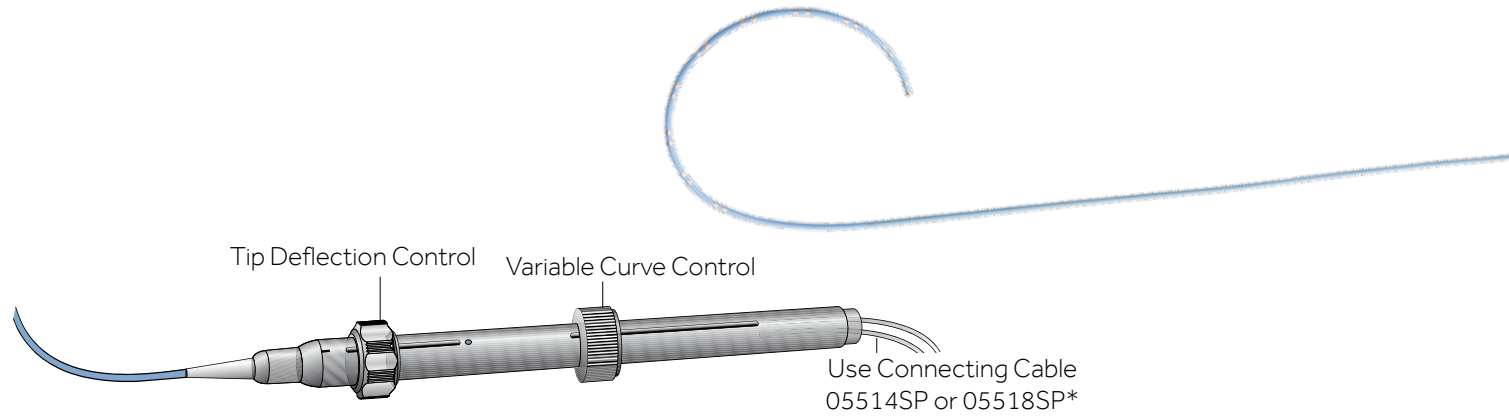
STABLEMAPR™ SM

STEERABLE DUODECAPOLAR MAPPING CATHETERS

For assessing bidirectional block and mapping the atrial roof, the septal wall and the tricuspid valve

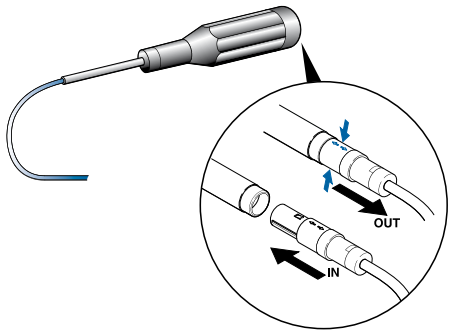
PRODUCT SPECIFICATIONS

ORDER NUMBER	04401SM	04402SM
Shaft Size (Fr)	7	7
Tip Stiffness	Firm	Soft
Electrode Spacing (mm)	2/10/2	2/10/2
No. of Electrodes	20	20
Usable Length (cm)	110	110



Diagnostic Connecting Cables

ORDER NUMBER	05504SP	05508SP	05514SP	05518SP	4819
Description	Sterile, Shrouded Pins	Sterile, Shrouded Pins	Sterile, Shrouded Pins	Sterile, Shrouded Pins	Ablation Catheter to EP Recording System, Shrouded Pins
Colour	Yellow	Yellow	Blue	Blue	Gray
Length	122 cm	244 cm	122 cm	244 cm	183 cm
Pins	4	4	10	10	4

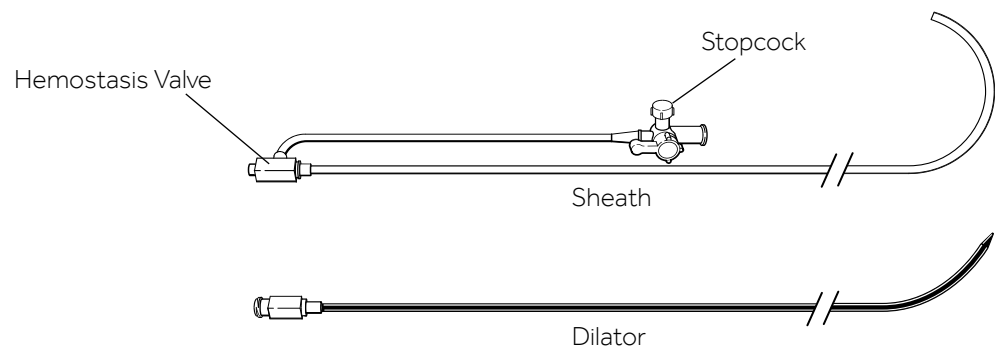


TRANSSEPTAL INTRODUCTION PRODUCTS AND ACCESSORIES

PRODUCT SPECIFICATIONS

MULLINS™ TRANSSEPTAL SHEATH

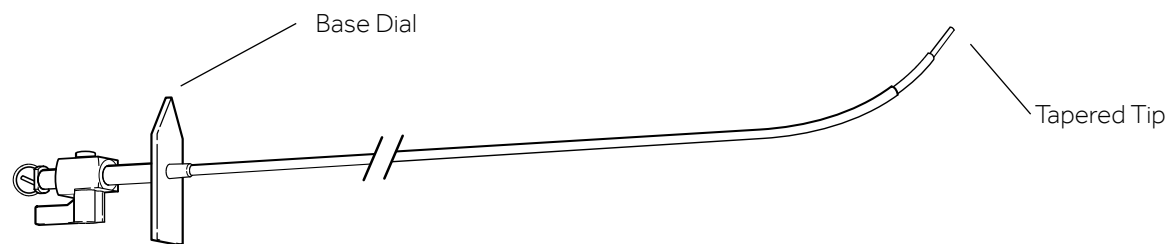
Sterile transseptal introducer sheath/dilator to serve as a conduit for the needle and electrophysiology catheters



ORDER NUMBER	EP008591	008552*	008532*	008530*
Size	Adult 8 Fr with hemostasis valve	Adult 8 Fr	Pediatric 8 Fr	Pediatric 6 Fr
Sheath Length (cm)	59	59	44	44
Dilator Length (cm)	67	67	52	52
Wire Size Max (in)	0.032	0.032	0.025	0.025

BROCKENBROUGH™ TRANSSEPTAL NEEDLE

Curved stainless steel needle used to make the transseptal puncture and supplied sterile



ORDER NUMBER	EP003994S	EP003997S
Size	Adult – 18 gauge shaft, 21 gauge tip	Pediatric – 19 gauge shaft, 22 gauge tip
Needle Length (cm)	71	56

* Contact your local Medtronic Representative for more information.

PRODUCT SPECIFICATIONS

MERIT™ HEARTSPAN TRANSSEPTAL NEEDLE

Responsive needle backed up with enhanced stiffness



ORDER NUMBER	LENGTH (CM)	CURVE ANGLE	TIP GAUGE
FND-019-00	56	50°	22
FND-019-01	71	50°	21
FND-019-02	71	86°	21
FND-019-03	89	50°	21
FND-019-04	89	86°	21
FND-019-05	98	50°	21
FND-019-06	98	86°	21



CardioInsight™
Mapping Vest



CardioInsight™ Workstation

CARDIOINSIGHT™ WORKSTATION

Acquisition, analysis, display and storage of cardiac data and maps for analysis by a physician

CARDIOINSIGHT™ MAPPING VEST

Multi-Electrode Mapping Vest



CardioInsight™
Mapping Vest



Monitor

252-channel
Amplifier

Workstation
Computer

Isolation
Transformer

Workstation

CARDIOINSIGHT™ WORKSTATION

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
CIT200	CardioInsight™ Workstation

Workstation Specifications

SIZE	
Height	MIN: 1,300 mm (51.18") MAX: 1,461 mm (57.52")
Depth	MIN: 664 mm (26.14") MAX: 862 mm (33.94")
Width	MIN: 615 mm (24.21") MAX: 696 mm (27.40")
Weight	102 kg (225 lbs)

OTHER SPECS	
Power Input Parameters-System	100/120/220/240 V
Power Input Parameters-Amplifier	100 - 240 V
Temperature And Humidity Limitations	15 °C to 30 °C (59 °F to 86 °F) Humidity 20%-80%

Workstation Non-Sterile Components

DESCRIPTION	
Amplifier	Data Cable (3', 10', 25', 50', 75', 100')
Workstation Computer	Patient Ground and Reference Cables
Workstation Monitor	Isolation Transformer
Workstation Cart	Display Cables
Signal Cables (Right, Left, Back right, Back left)	Power Cables

INDICATIONS FOR USE

- Gathering, analysis, display and storage of cardiac EP data and maps for analysis by a physician

BENEFITS

- Non-invasive arrhythmia assessment
- Simultaneous multi-chamber mapping
- Single beat capture

FEATURES

- Used with the CardioInsight™ Mapping Vest
- Non-invasive mapping system
- Collects chest ECG signals and combines them with CT scan data
- Produces and displays simultaneous multi-chamber, 3D, cardiac maps including activation, voltage, driver and phase maps
- Provides various cardiac signal analyses
- Mobile workstation can be used for mapping bedside or in the EP lab



CardioInsight™ Workstation

CARDIOINSIGHT™ MAPPING VEST

MULTI-ELECTRODE MAPPING VEST

PRODUCT SPECIFICATIONS

Ordering Information

ORDER NUMBER	
CITVST0001S	Vest Size 1
CITVST0002M	Vest Size 2
CITVST0003L	Vest Size 3
CITVST0004XL	Vest Size 4

Vest Specifications

RECOMMENDED SIZE	
The vest comes in four sizes: 1, 2, 3, and 4. Refer to Size Selection Reference Guide for information on vest sizing.	
MATERIAL	
Vest Panel	Cotton/elastane
252 Electrodes	Silver/Silver Chloride (Ag/AgCl)
Gel	7% K-Cl Conductive Gel
Insulation Layer	Polyester
Connectors	Polycarbonate/ABS blend

The CardioInsight™ Mapping Vest is supplied non-sterile and packaged individually. It is a single use device.

INDICATIONS FOR USE

- Intended to be used only with the CardioInsight™ Workstation to collect ECG signals in order to process and display cardiac epicardial maps

BENEFITS

- Non-invasive
- Comes in 4 sizes to suit different anatomies

FEATURES

- 3 panels: front left, front right and back
- 252 electrodes
- Connectors connect the vest to the system to record cardiac activity
- The only materials in contact with the skin are the elastane, adhesive layer and electrode gel



CardioInsight™ Mapping Vest

- Ablation** - A catheter-based, minimally invasive procedure to destroy a small area of heart tissue that is causing rapid and irregular heartbeats - 7, 10, 11, 12, 13, 14, 18, 25, 26, 27, 28, 29, 30, 31, 32, 33

AF - Atrial Fibrillation, a rapid and irregular heartbeat that originates in the upper chambers of the heart, the atria - 10, 13, 18

AFI - Atrial Flutter - 10, 13, 26

AP - Accessory Pathway, additional electrical conduction pathway between two parts of the heart that causes rapid heart beat - 10, 12, 13

AT - Atrial Tachycardia - 10, 12

AVNRT - Atrioventricular Nodal Reentrant Tachycardia - 10, 12, 13

Cryo Mapping Mode - Used for hypothermic site testing; temperature is preset to -30°C and time limited to 60s - 11

CS - Coronary Sinus - 39

EGM - Electrogram - 10
- EP** - Electrophysiology - 9

GW - Guidewire - 8, 19, 22

HIS - HIS bundle - 37

HRA - High Right Atrium - 37

LA - Left Atrium - 9, 21

N₂O - Nitrous oxide - 7, 8, 9

PV - Pulmonary Veins - 9

RF - Radiofrequency - 17, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33

RVA - Right Ventricular Apex - 37

RVOT - Right Ventricular Outflow Tract - 13

SVT - Supraventricular Tachycardia - 2, 29

TSP - Transseptal Puncture - 8, 9, 19, 20, 21

VT - Ventricular Tachycardia - 10, 13

ORDER NUMBER INDEX

CRYO PORTFOLIO

CRYO PORTFOLIO CRYOBALLOON SYSTEM

2AF233	Arctic Front Advance 23 mm	7
2AF283	Arctic Front Advance 28 mm	7
4FC12	FlexCath Advance 12Fr	8
990063-015	Achieve 15 mm	9
990063-020	Achieve 20 mm	9
2ACHC	Connecting Cable (10 pins)	9
2ACH15	Achieve Advance 15 mm	9
2ACH20	Achieve Advance 20 mm	9
2ACH25	Achieve Advance 25 mm	9

FREEZOR™ FAMILY CATHETERS

207F1	Freezor 1 Short/Red	10
207F3	Freezor 3 Medium/Blue	10
207F5	Freezor 5 Long/Orange	10
217F1	Freezor Xtra 1 Short/Red	10
217F3	Freezor Xtra 3 Medium/Blue	10
217F5	Freezor Xtra 5 Long/Orange	10
209F3	Freezor MAX 3 Medium/Blue	11
209F5	Freezor MAX 5 Long/Orange	11
207F1	Freezor 1 Short/Red	11
207F3	Freezor 3 Medium/Blue	11
207F5	Freezor 5 Long/Orange	11

217F1	Freezor Xtra 1 Short/Red	12
217F3	Freezor Xtra 3 Medium/Blue	12
217F5	Freezor Xtra 5 Long/Orange	12
209F3	Freezor MAX 3 Medium/Blue	13
209F5	Freezor MAX 5 Long/Orange	13

CRYOCONSOLE

106E2	CryoConsole Gen V RoHS	14
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ACCESSORIES

203CX	Coaxial Umbilical (each)	15
203CXC	Coaxial Umbilical (case of 12)	15
2035U	Electrical Umbilical (each)	15
2035UC	Electrical Umbilical (case of 12)	15
20MRK	Manual Retraction Kit	15
2037A	Auto Connection Box	15
2035W	ECG Cable	15
1035G	Scavenging Hose Purple - 12 m	15
1038E	Power Cord CE - 2.5 m	15
1036W	Wrench 28.6 mm for CryoConsole	15
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CRYO PORTFOLIO

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NOTES

BRIEF STATEMENT

See the devices manuals for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative.

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