

# Electrophysiology System

## St Jude Medical

Eng: Ahmed Hamzawy



# Fixed Diagnostic Catheters



Supreme

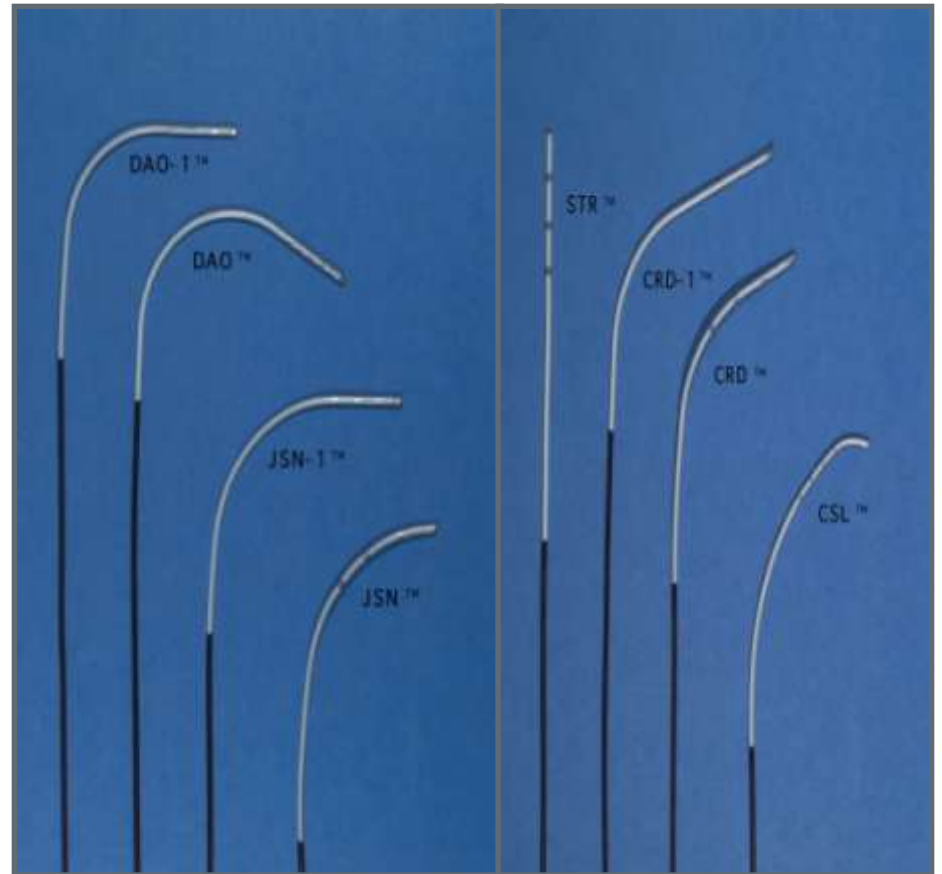
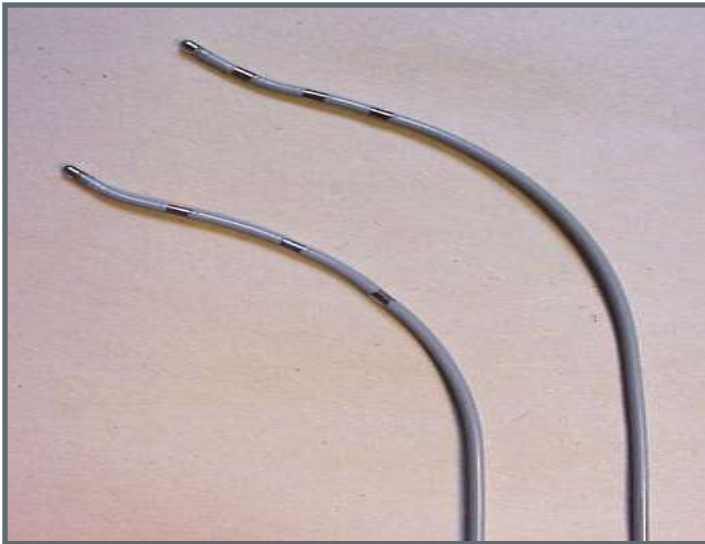


Inquiry

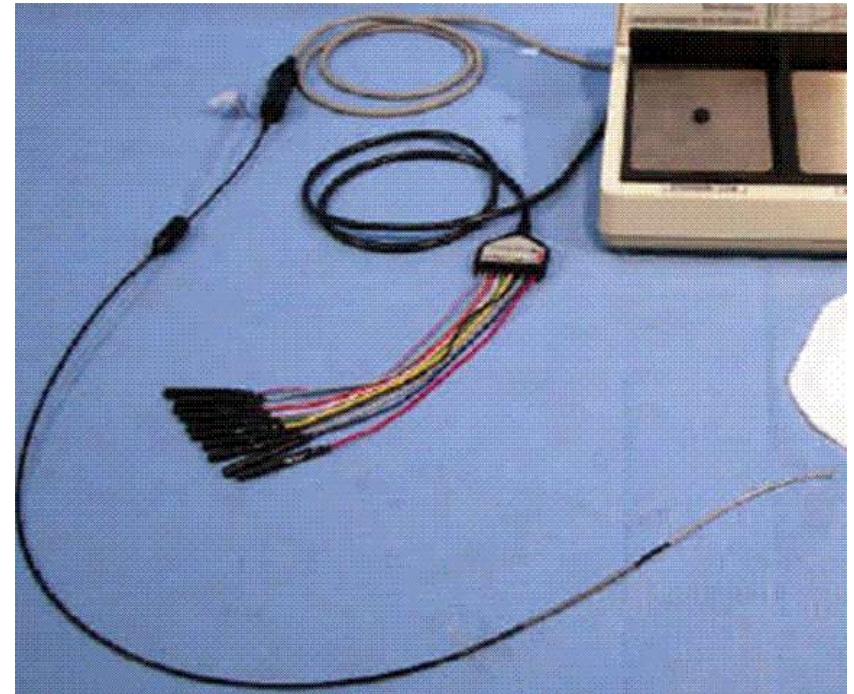
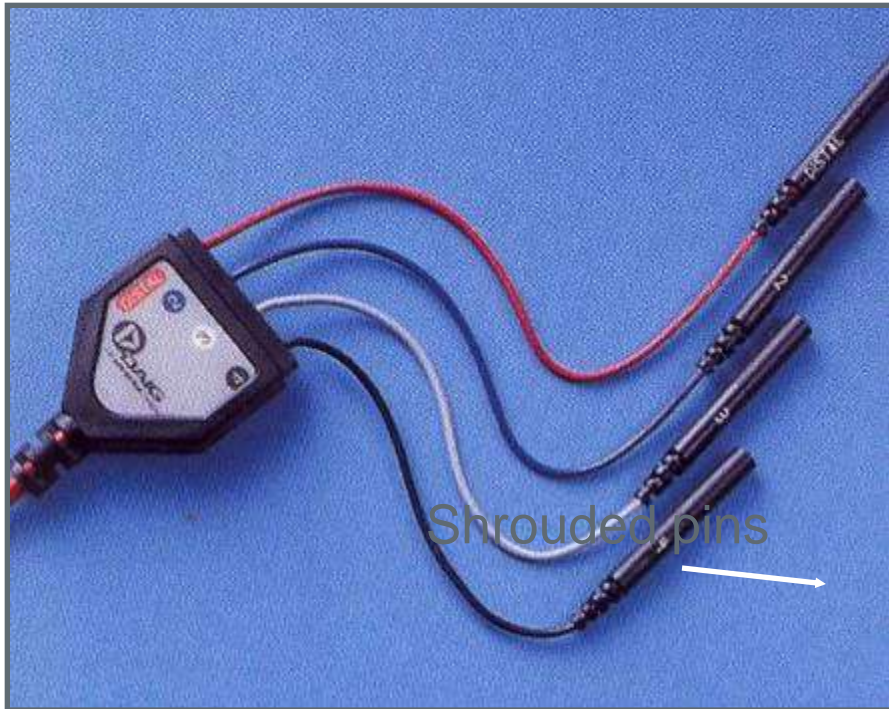


Response

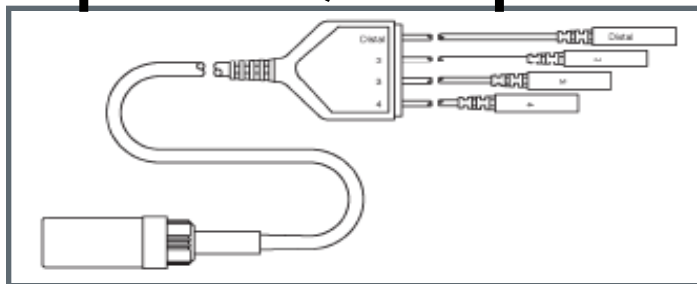
# Fixed Catheters Curves



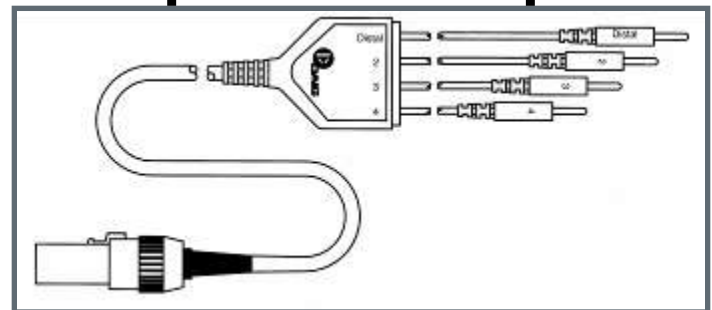
# Fixed Diagnostic Catheters Cables



## Supreme Quadripolar



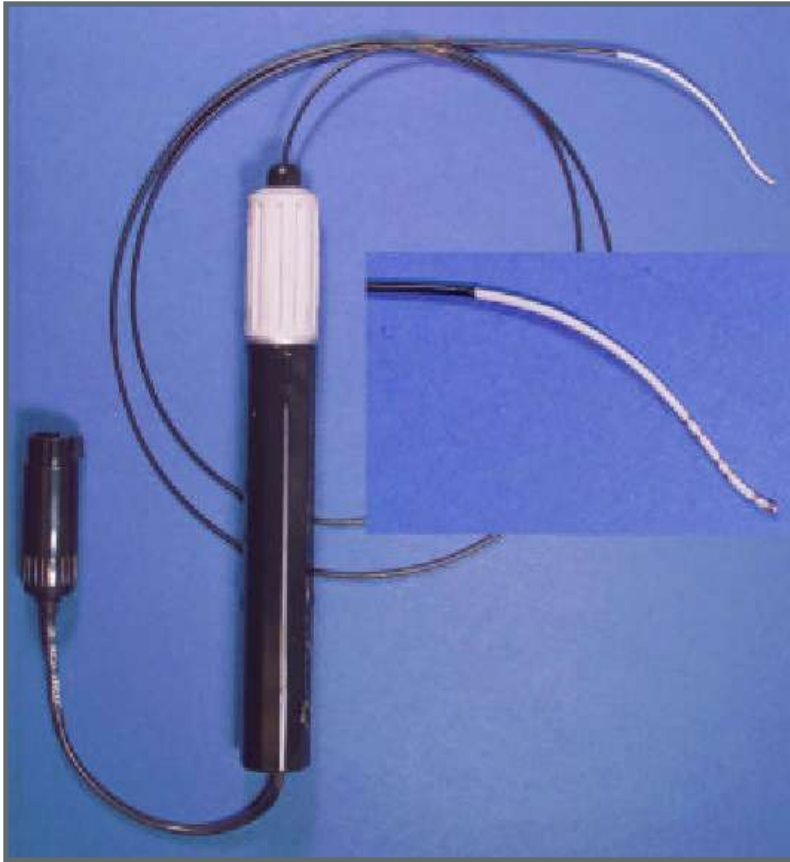
## Response Decapolar





# Deflectable Diagnostic Catheters

## Livewire



## Inquiry



# Inquiry Catheters

MICRO-4  
FIXED  
CURVES

C Curve

J Curve

MICRO-4  
STEERABLE  
CURVES

M Curve

L Curve

Curve or Fixed Design

4Fr Steerable and Fixed Curves

**Inquiry™**  
MICRO-4 Diagnostic Electrophysiology Catheters

Simple and Precise Distal Control

- Pre-bending catheters to create easy deployment control
- 360° handle rotation for a full steering range

Superior Handling Characteristics

Proprietary wire reinforced dual lumen "BIO" design

- Available for rapid saline advancement
- 1:1 separability for accurate catheter placement

Consistent High Fidelity Diagnostic Electrograms

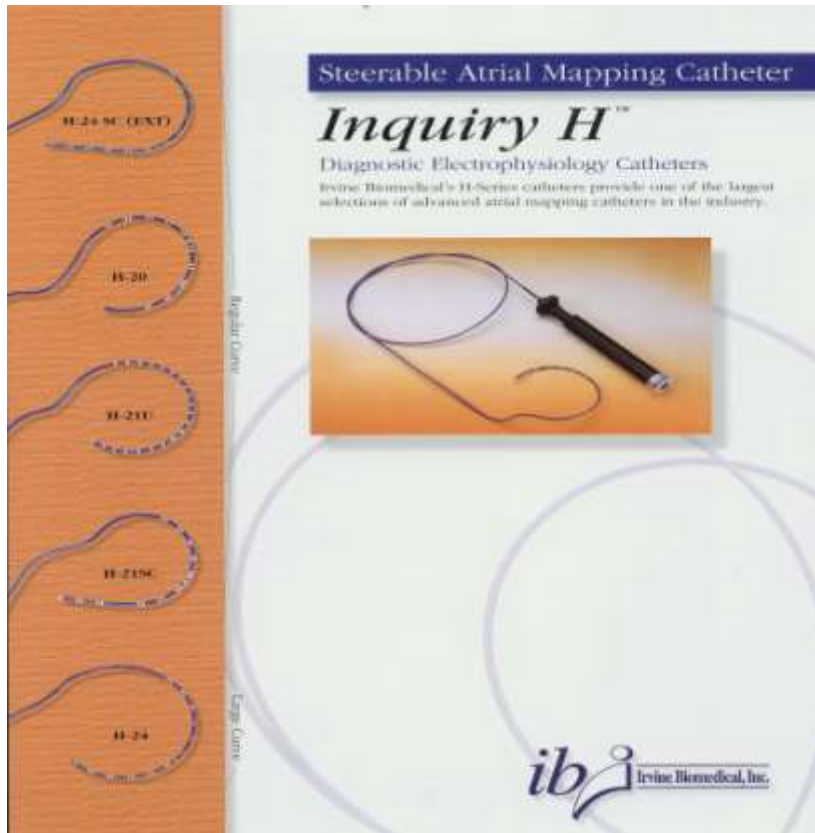
Platinum Iridium electrodes, Gold plated connectors, Copper conductor wires

- Produce high fidelity electrograms for better diagnosis

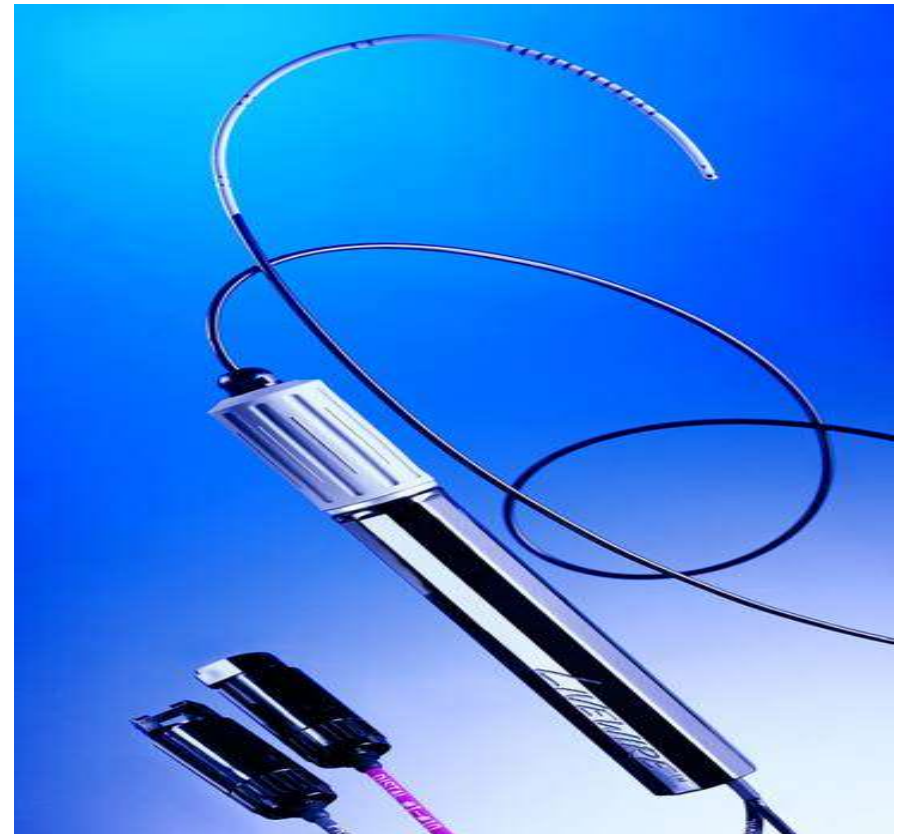
ib Irvine Biomedical, Inc.

# (Atrial Flutter Catheters)

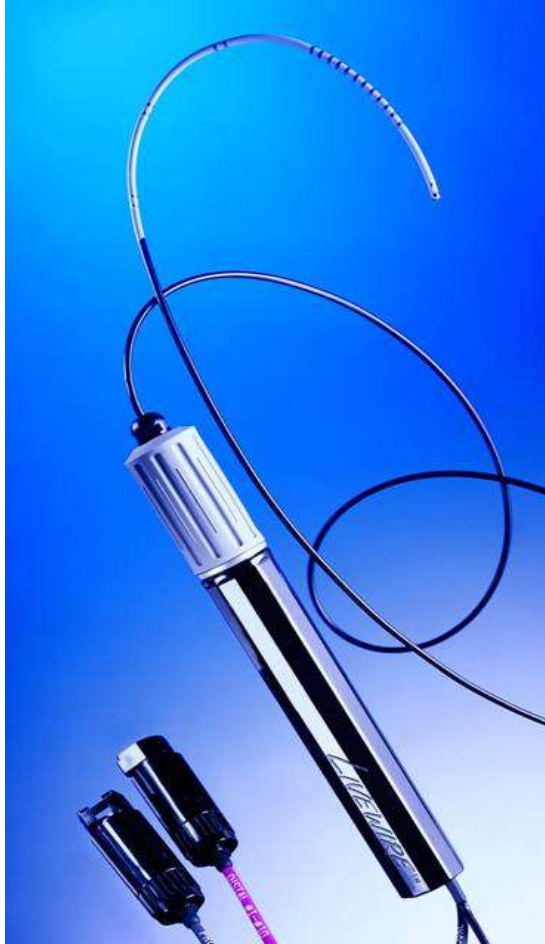
## *Inquiry H-curve*



## Livewire Duo-Decapolar



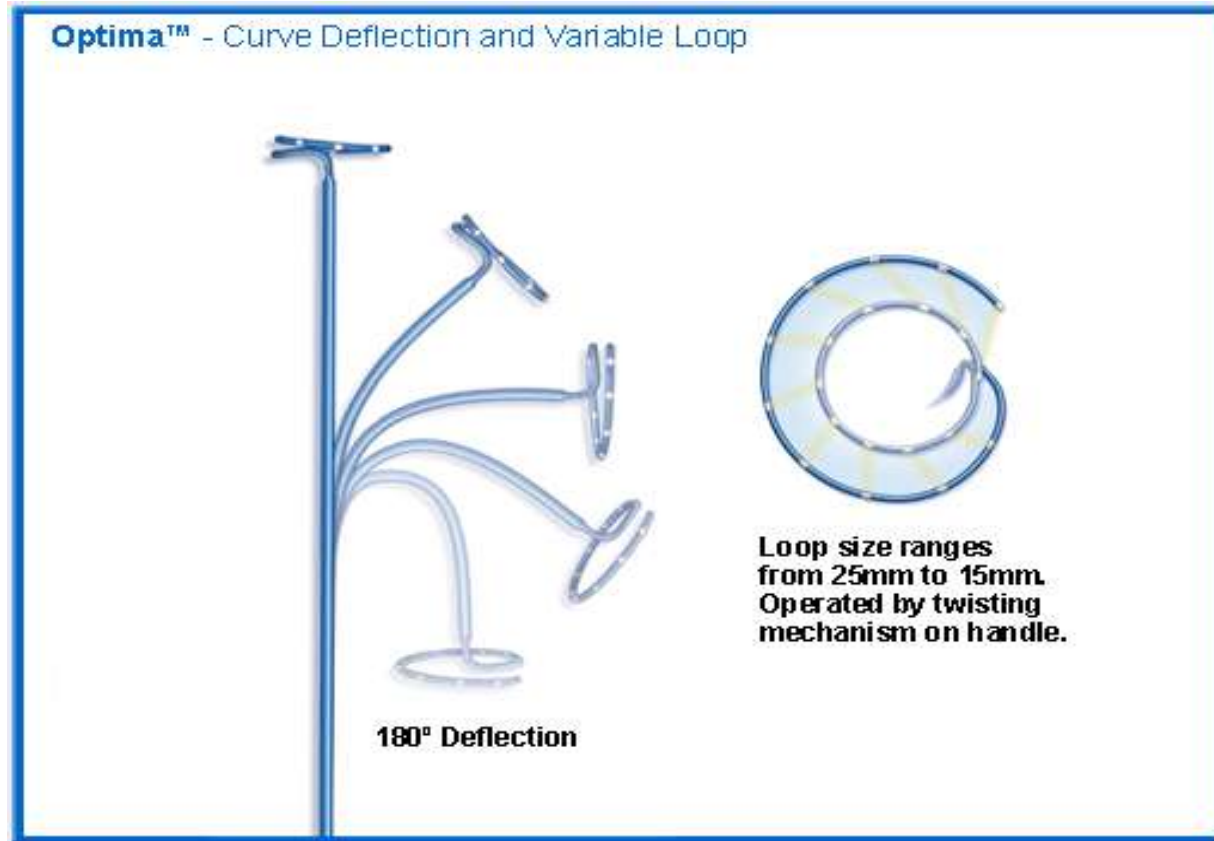
# Livewire Duo-Decapolar





# Inquiry Optima Catheters

## Mapping of Pulmonary vein potentials



# Inquiry Optima



- **Features:**
  - **7Fr shaft / 4Fr loop**
  - **Shaft deflection from 0° to 180°**
  - **Tip deflection length 35mm**
  - **Loop adjustable 25mm to 15mm**
  - **Electrode spacing from 1(2.5) to 5mm**
  - **Handle is push/pull and rotation mechanism**

# Ablation Catheters

## Safire



## Therapy

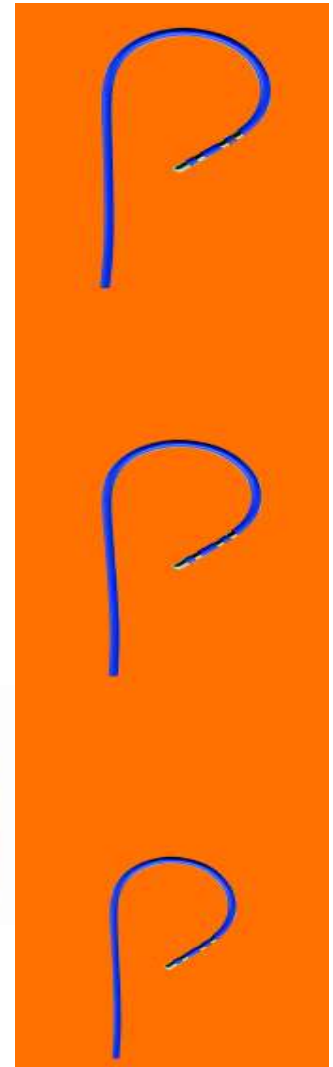


## LiveWire



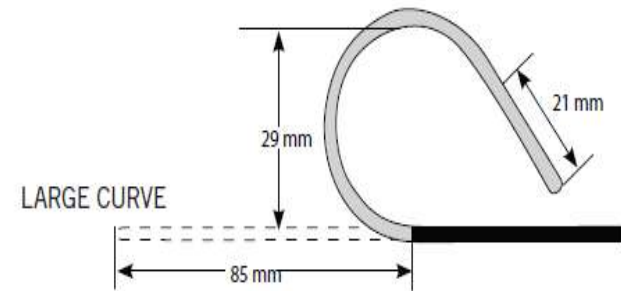
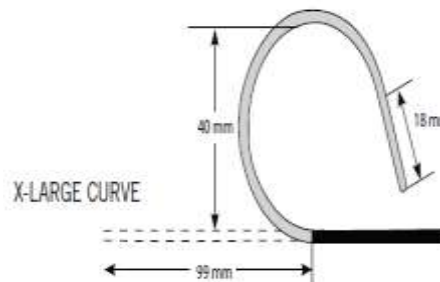
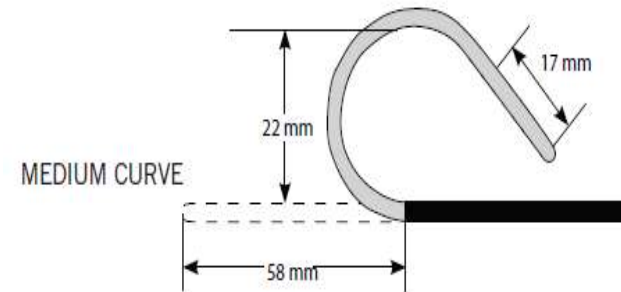
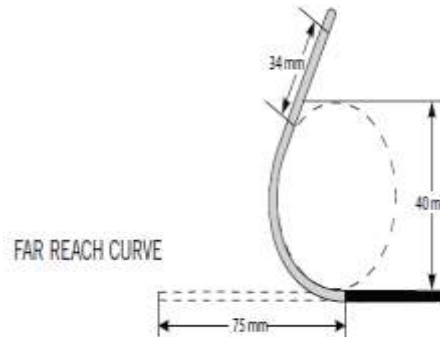
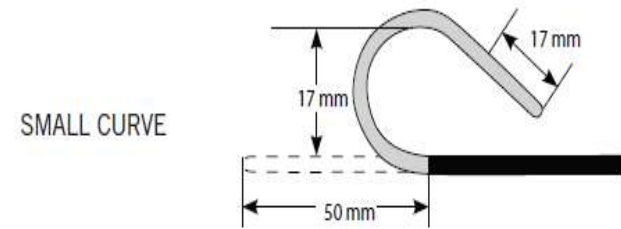
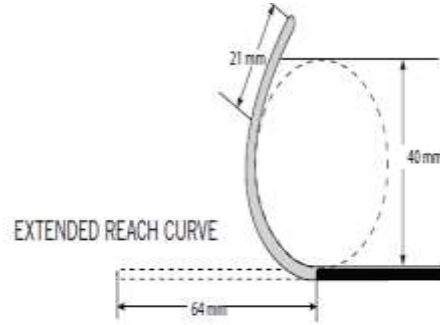
# Therapy Ablation Catheters

4mm and 8mm Ablation tip catheters





# Therapy Ablation Catheters



## Curve Comparison

### Cordis

### SJM

Orange(F)

Large Sweep

Blue (D)

Medium Sweep

Green(C)

Medium Curl

Yellow (A)

Small Curl

Red (B)

Small Sweep

White (E)

Large Sweep

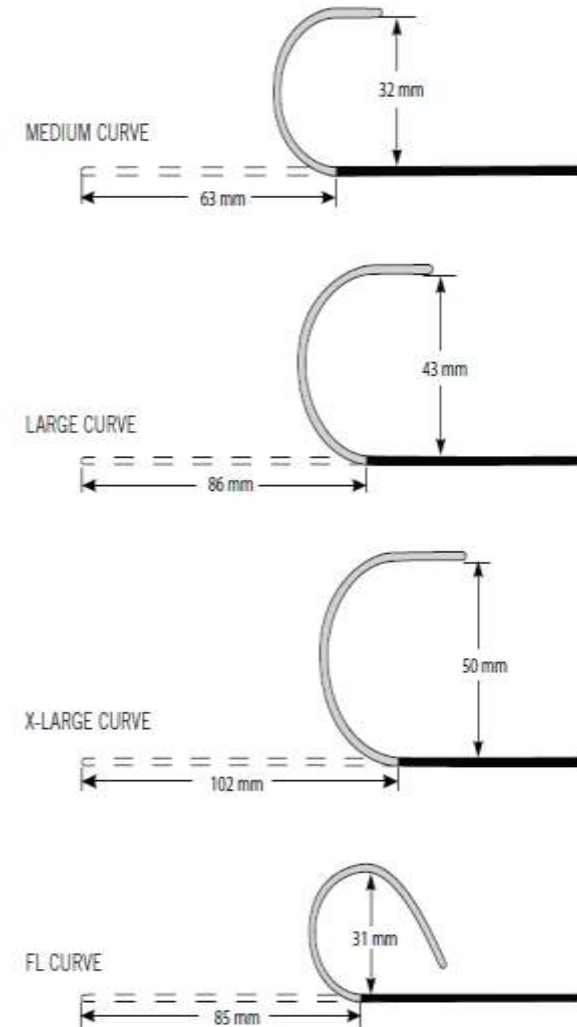
# Therapy™ CoolPath™ Catheter



# Therapy™ CoolPath™ Catheter

## Features:

- **Steerable 7F Cooled Tip Ablation Catheter**
- **Irrigated 6 port tip**
- **4 Curves, M, L, XL**
- **4 electrodes**
- **Thermocouple(TC) and Thermistor versions**
- **4 mm and 2 mm Tip (TC), 4 mm (Thermistor)**
- **2mm Bands**



# Therapy™ CoolPath DUO™ Catheter

## Tip Design

- 4mm ablation tip length
- 12 irrigation ports
- 6 “conventional” at the distal tip
- 6 “supplemental” at the proximal end



Conventional  
ablation tip



Cool Path Duo  
ablation tip





# Ablation System



PARAMETER	Units	Power Up Default	Operating Range	Adjustment Steps
RF Output Power	Watts	30	1-150	1 Watt
Temperature	°C	65	15-80	1°C
Impedance	Ohms	150	25-300	1 Ω
Time	Seconds	120	1-240	1 second

# Ablation System

## Cool Point™ Irrigation Pump and Tube Set



### Specifications

Mechanism:	Peristaltic
Dimensions:	29 cm x 21 cm (including handle) x 18.5 cm (including pump head) (W x H x D)
Weight:	3.75 kg
Flow Rates:	Low flow: 1 to 5 ml/min (1 ml/min increments) High flow: 6 to 40 ml/min (1 ml/min increments)
Priming Flow Rate:	60 ml/min
Air Bubble Detection:	2 $\mu$ L
Alarms:	Bubble detection; communication lost; door open; pressure sensor not connected; occlusion

# EP Workmate Recording System



# Ensite Navix 3D Mapping System





# Thank you!

