

EP·Ablation Catheter
Handbook
2026-2027



2026
|
2027

Contents

Internal Cardioversion System

[illegible]

Steerable Guiding Sheath

[illegible]

Electrophysiology Catheter

[illegible]

Electrode Cable

EPstar Electrode Cable>>>>>>>>>>	22
Cable Quick Reference >>>>>>>>>>	23
Electrophysiology Catheter Curve Reference>>	30

Ablation & Catheter

Fantasia >>>>>>>>>>>>>>>>>>>>>> 26
Fantasia 5F >>>>>>>>>>>>>>>>>>>>>> 26
Fantasia Knuckle >>>>>>>>>>>>>>>>>>>>>> 27
Ablation Catheter Curve Reference >>>> 28

SHOCK AT α

[Generator]

Features

- Efficient cardioversion energy: 1-30J (Adjusted in steps of 1J).
- Biphasic output for higher cardioversion success rate.
- Less noise interference with DC power supply.

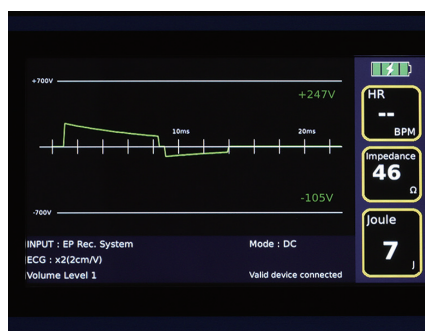
Model No.	ACG30-2
Voltage	AC100V-240V
Size	W300×D255×H117mm
Weight	4.5kg

Accessories

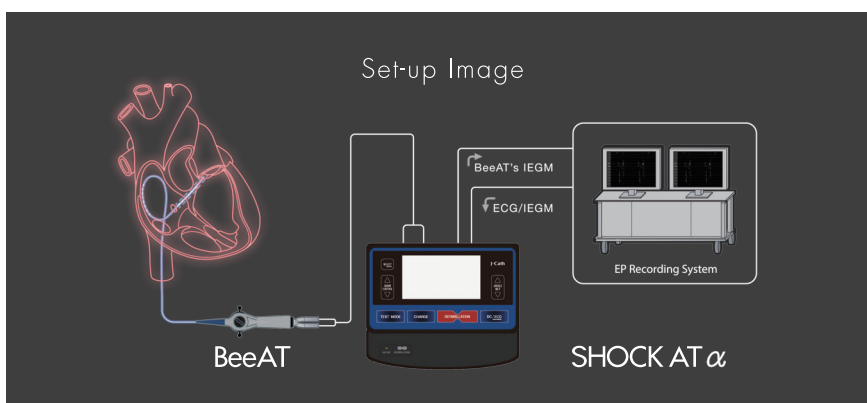
Product Name	Model No.	Usable Length(cm)
Power Cable	ACG507	-
IEGM Cable	SEC-500	500
	SIC-500	500
INPUT Cable	SIC-500B	500
	SIC-500C	500



ECG Mode Screen



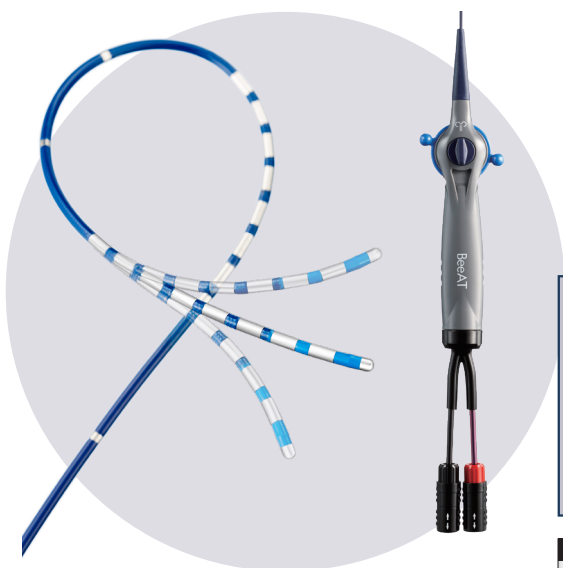
Screen after Cardioversion



BeeAT

[Catheter]

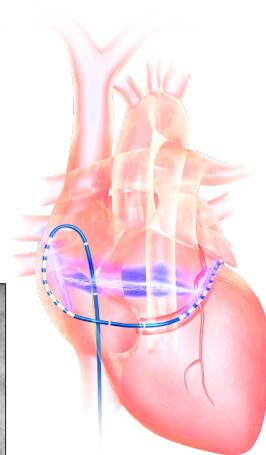
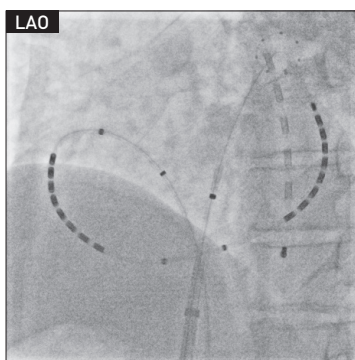
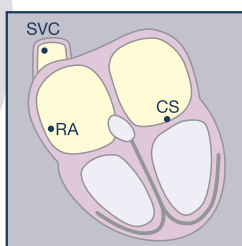
Steerable



Features

BeeAT

- Use with SHOCK AT a generator to cardiovert atrial arrhythmias during ablation procedures.
- Simultaneous mapping between CS, RA and SVC.
- Useful for non-pv trigger mapping post cardioversion in atrial fibrillation ablation procedures
- Distal curve shaped for easy CS cannulation.
- Multi-lumen shaft with excellent insulation.
- Create "α-shaped" curve along the RA wall for mapping and cardioversion purposes.
- Precise control of the catheter tip for easier CS ostium cannulation under IVC approach.



BeeAT	Model No.	Type	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Duodecapolar/6F	S20884-80M	SVC-RA-CS	2	4/1.2	2-2...70-2-2...10-5-5-5	80
Lumen BeeAT (Fix Type)						
Duodecapolar/6F	SF20884L-80M	SVC-RA-CS	-	4/1.2	2-2...70-2-2...10-5-5-5	80
IVC BeeAT						
Duodecapolar/6F	S208282PS-SAOC3	SVC-RA-CSos-CS	2	4/1.2	2-2...22.5-22.5-22.5-2-2...25-25	102

Guidee

Steerable



Features

- Distal tapering for smooth transition between sheath and dilator.
- Neutral marker at handle knob. Confirm neutral position without using fluoroscopy.
- Reduced perforation risk with soft distal tip.
- Braided shaft designed for balance of softness and controllability.

Model No.	ST8-64S2
Curve Diameter	Symmetric 17mm
ID	Maximum 8.5F
OD	12F
Usable Length	64cm
Accessories	50°Angled Dilator, Usable Length 85.3cm
	0.032" J-Type Guidewire Full Length 180cm
	12F Pre-Dilator Usable Length 15.3cm

Leftee

Steerable

Features

- Control deflection with both hands with proximal handle knob.
- Easy to grip 12cm compact handle for the left hand.
- Neutral marker at handle knob. Confirm neutral position without using fluoroscopy.
- Balanced shaft for softness and device support.
- Single Direction.



Model No.	LST8-70S	LST8-70M
Curve Diameter	17mm	26.5mm
ID	Maximum 8.5F	Maximum 8.5F
OD	12F	12F
Usable Length	70cm	70cm
Accessories	50°Angled Dilator, Usable Length 85.3cm	
	0.032" J-Type Guidewire Full Length 180cm	
	12F Pre-Dilator Usable Length 15.3cm	

Compact Handle

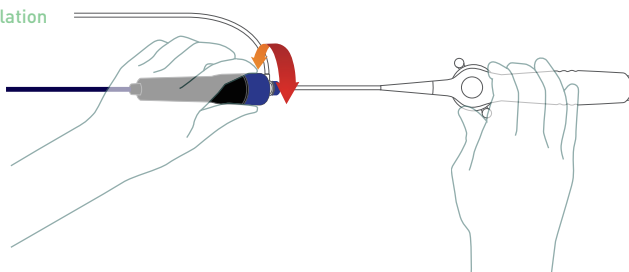
6cm reduction compared with conventional models.



Leftee

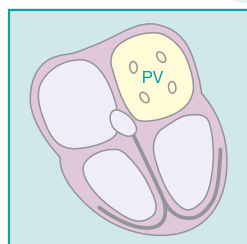
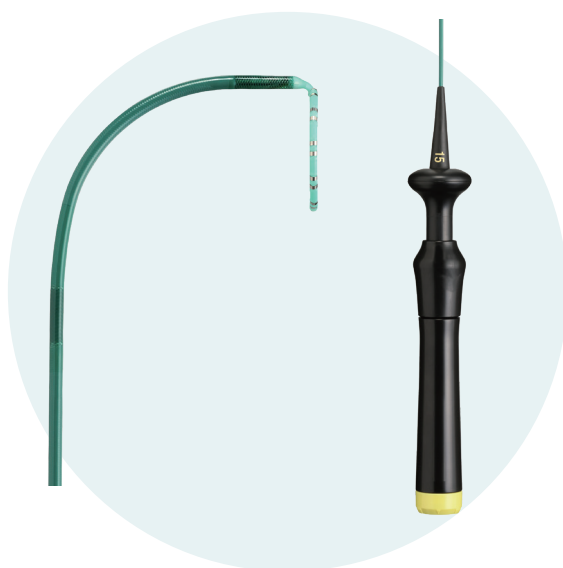
Guidee

Left-Handed Sheath Manipulation



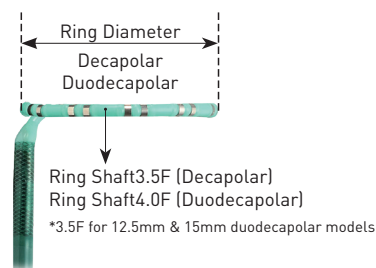
EPstar PV

Single-Directional



Features

- Decapolar and duodecapolar lineup.
- Curve and shaft balanced designed for easy PV approach.
- Ring mount is designed to protect electrodes and maintain stable contact with PV walls, allowing sharp and fine potentials.
- Smooth approach to PVs with fine distal tip control with support of long sheaths.



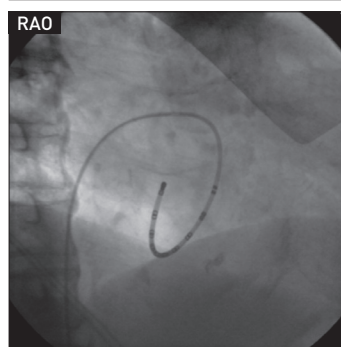
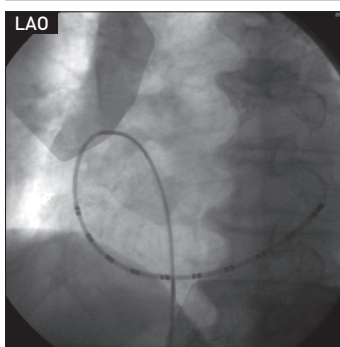
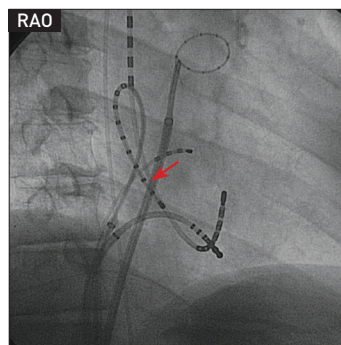
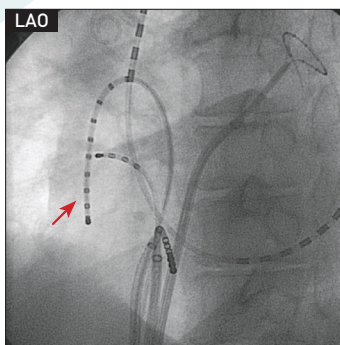
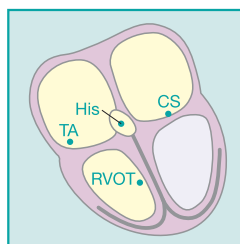
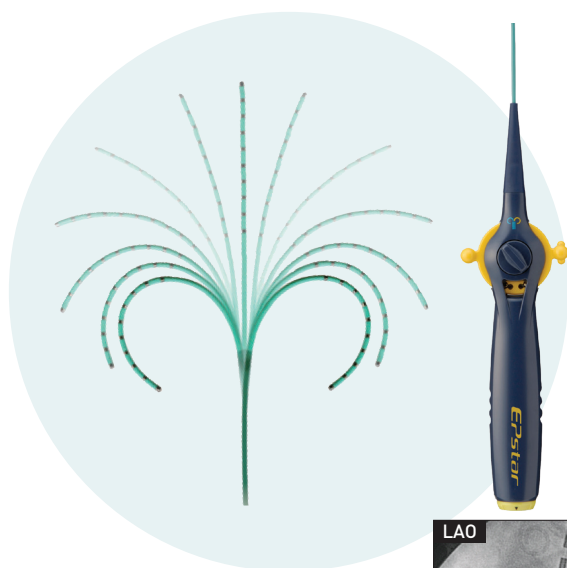
PV	Ring Shaft	Model No.	Ring Diameter	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/ 7F	3.5F	PVI1015-110	15	1.4	0.65	3.0-3.5-3.5...	110
		PVI1017.5-110	17.5	1.4	0.65	4.0-4.5-4.5...	110
		PVI1020-110	20	1.4	0.65	4.5-5.5-5.5...	110
Duodecapolar/ 7F	3.5F	PV2012.5-110	12.5	1.4	0.65	2.0-2.0-1.0-2.0...	110
		PV2015-110	15	1.4	0.65	2.0-2.0-1.0-2.0...	110
	4F	PV2017.5-110	17.5	1.4	0.65	2.0-2.5-1.0-2.5...	110
		PV2020-110	20	1.4	0.65	2.0-3.5-1.0-3.5...	110

EPstar MP

Bi-Directional

Features

- Capable of mapping winding blood vessels, left anterior Kent bundles and regions around the aortic valve by approaching distal CS with bi-directional curves.
- Bi-directional catheters can utilize both curves to ensure consistent stable contact at areas around the His bundle and RA lateral wall.



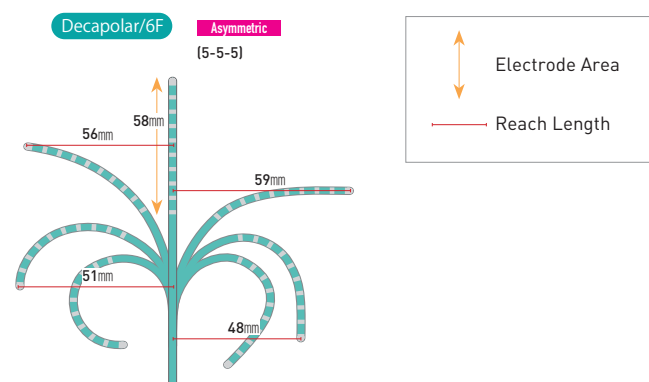
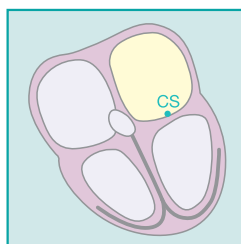
EPstar MP	Model No.	Curve Diameter	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/6F	10556BI-100	52 • 52	2	1.2	5-5-5...	105
	20156BI	65 • 65	2	1.2	2-5-1-5-1...	105
Duodecapolar/6F	201106BI	90 • 90	2	1.2	2-10-1-10-1...	105
	20226BI	57 • 57	2	1.2 (electrode #10: 2 mm)	2-2-2...	105

EPstar MP (Torsion Spring Model)

Bi-Directional

Features

- The configuration of the double support wires provides great trackability and enables maneuvering in windy vasculature.
- The high-quality bidirectional shaft and tip shape provides excellent pushability and torquability.



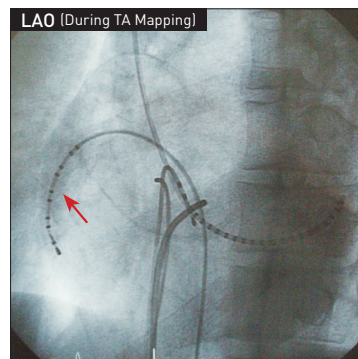
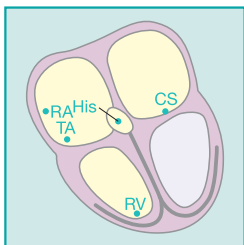
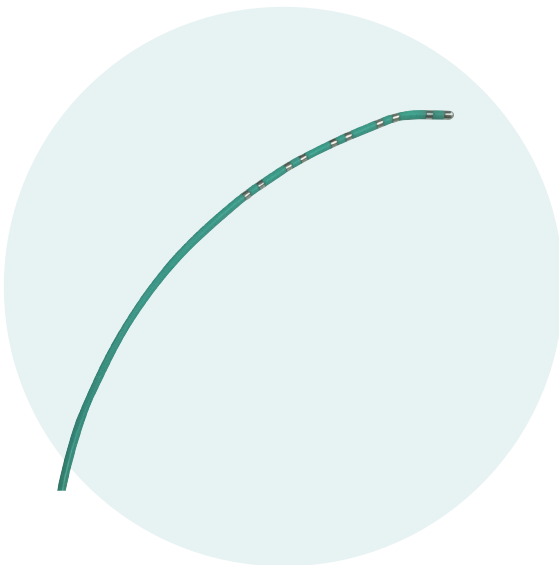
EPstar MP	Model No.		Curve Diameter	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/6F	10556BITS	Asymmetric	51 • 48	2	1.2	5-5-5...	105
	10556BITS-3D	Asymmetric	51 • 48	2	1.2	5-5-5...	105
Hendecapolar/5F	11556BITS-3DR	Asymmetric	51 • 48	2	1.2	5-5-5...	105
Hendecapolar/6F	11555BITS-R	Asymmetric	51 • 48	2	1.2	5-5-5...	105
Duodecapolar/6F	20226BITS	Asymmetric	51 • 48	2	1.2 (electrode #10: 2 mm)	2-2-2...	105
	202586BITS		120	2	1.2	2-5-2...65-8-8-8...	105

EPstar Map

Steerable

Features

- Capable of RA lateral wall mapping with large curve.



Map	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/5F	10255M-L100	2	1	2-5-2...	105
	10255M-L100R	2	1	2-5-2...162	105

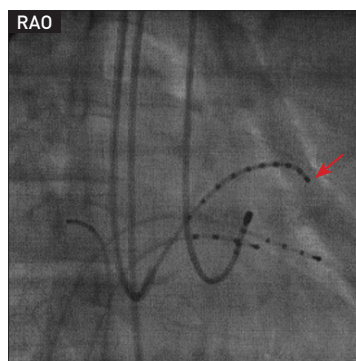
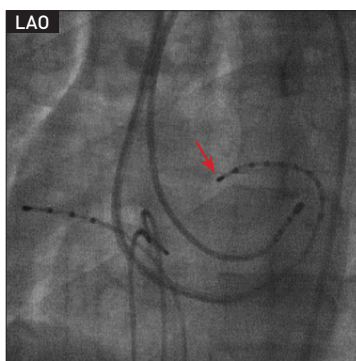
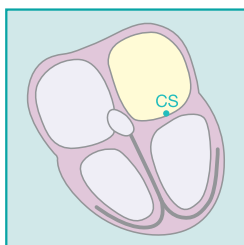
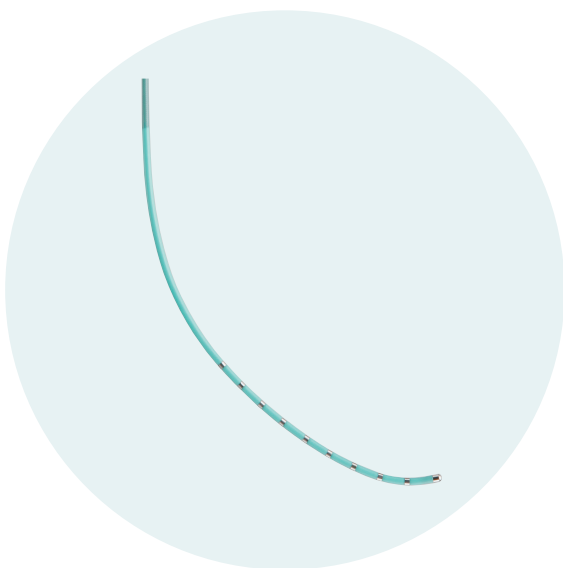
EPstar

EPstar CS High

Steerable

Features

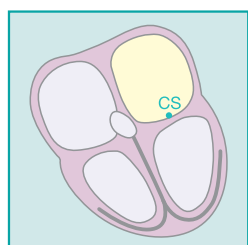
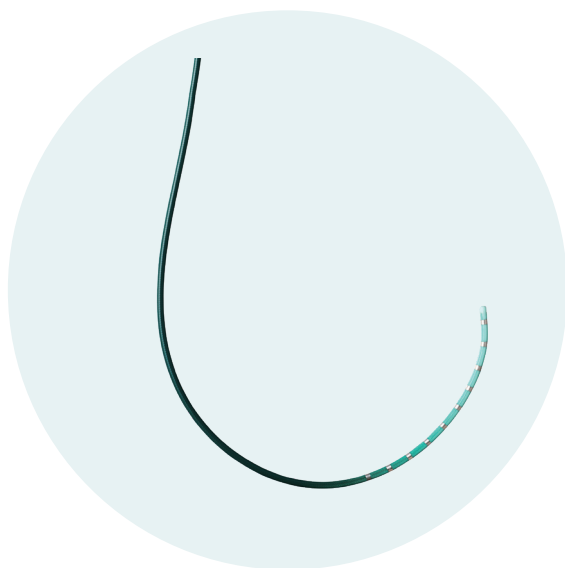
- Distal tip curve shaped for easy approach to the CS ostium.
- Shaft balanced designed for smooth insertion inside the CS.
- Great torque performance with short shaft.



CS-High	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/6F	10256CS-80	2	1	2-5-2...	80

EPstar Fix CS Lumen

Fixed

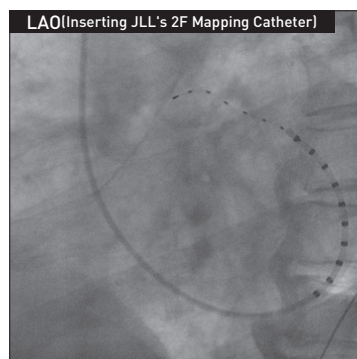
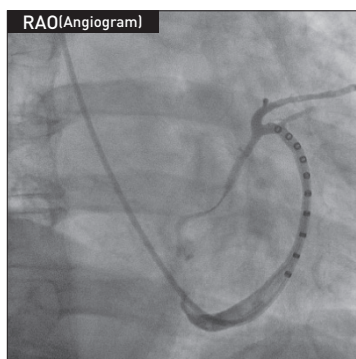


Features

- Shaft balance designed for great torque performance and softness throughout the catheter.
- Capable of inserting 0.035" guidewires and performing CS angiograms.
- Capable of mapping distal CS by inserting 2F mapping catheter.
- SVC approach lineup.

F11556CSL-95HT

- Recommended guidewires and catheters: Maximum 0.035" (2.67F)
- Compatible with EPstar Fix 2F and EPstar Fix AIV



CS with inner lumen	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/6F	F10556CSL-65HT	-	1.2	5-5-5...	65
Hendecapolar/6F	F11556CSL-95HT	-	1.2	5-5-5...	95

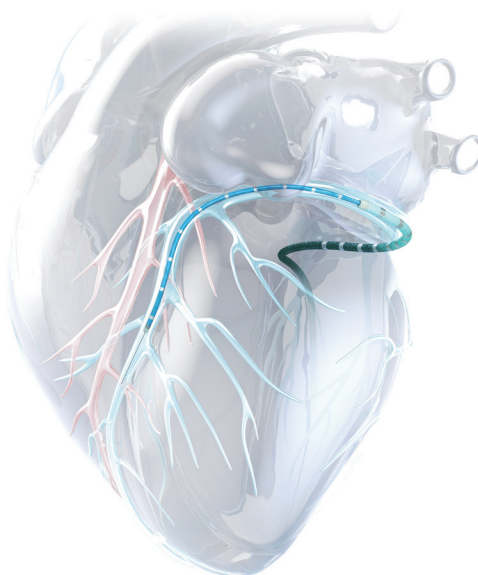
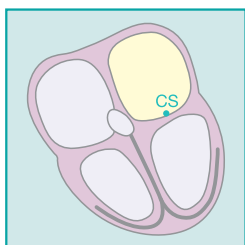
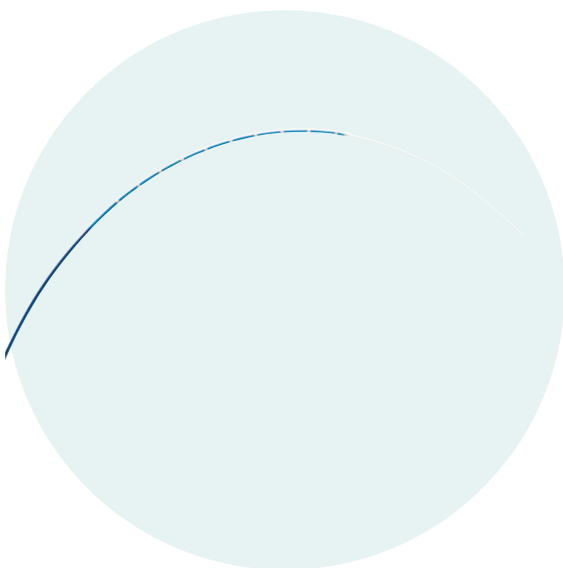
EPstar Fix

AIV

Fixed

Features

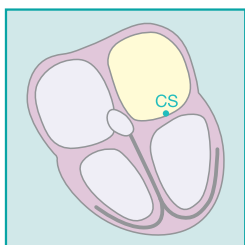
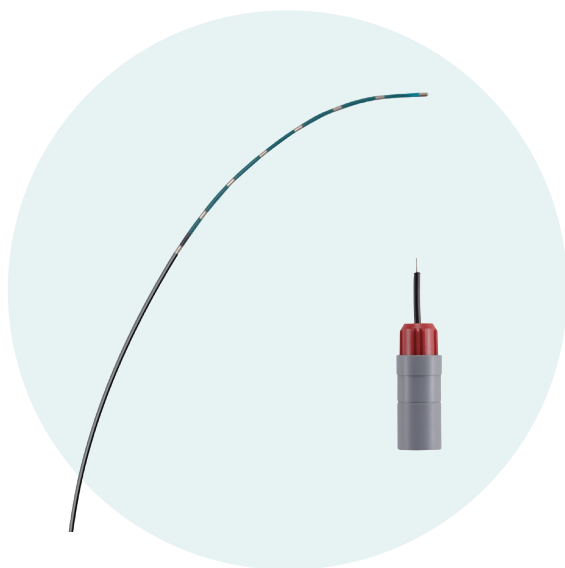
- Compatible with a 0.014" guidewire
- Capable of mapping and pacing safely in the small CS branches other catheters cannot access.
- Capable of inserting into EPstar Fix CS Lumen (F11556CSL-95HT)



AIV	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/ 2.67F	F105527AVL	-	0.65	5-5-5...	130

EPstar Fix 2F

Fixed



Features

- Capable of approaching complexed CS with great torque performance and soft distal tip.
- Capable of low voltage pacing with distal tip electrode.
- Recommended use with 5F guiding catheters for low invasive treatment and smooth approach.
- Capable of inserting into compatible catheters with inner lumens.
- Capable of inserting into EPstar Fix CS Lumen (F10556CSL-65HT and F11556CSL-95HT)

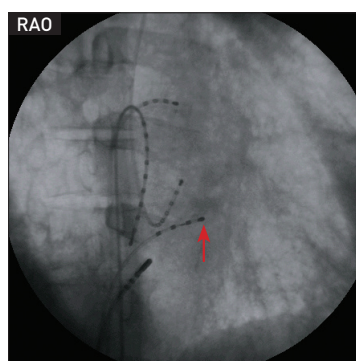
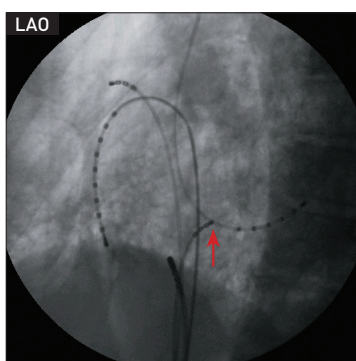
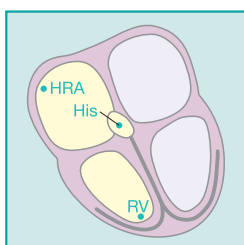
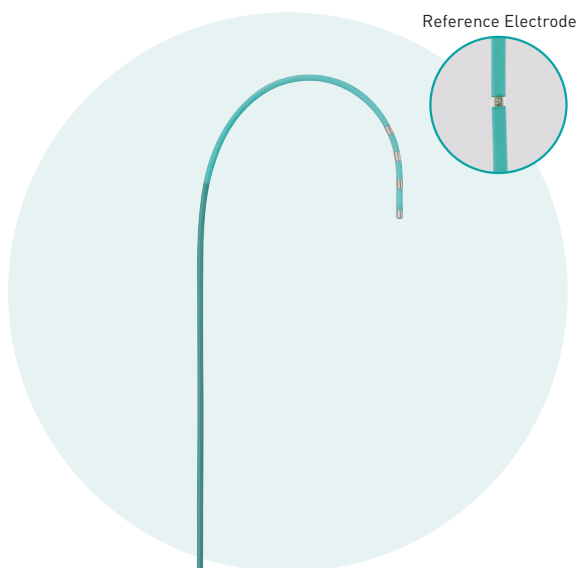
2F	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Octopolar/2F	F8552	1.5	1.3	5-5-5...	130

EPstar Multi

Steerable

Features

- Multiple site mapping lineup.
- Supple shaft designed for stable contact.
- Reference electrode for unipolar mapping (Situating at 20cm from the distal tip).

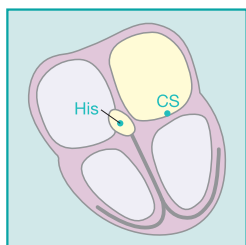
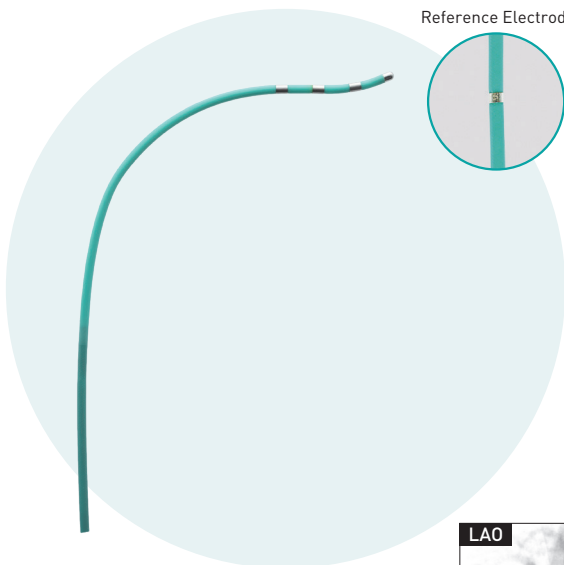


Multi	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Pentapolar/5F	5555M-120R	2	2	5-5-5-177	120

EPstar His

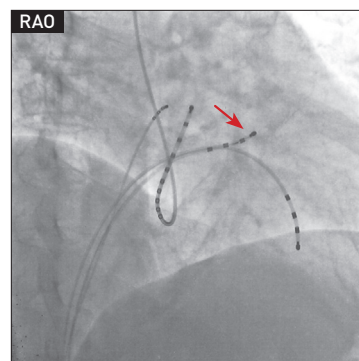
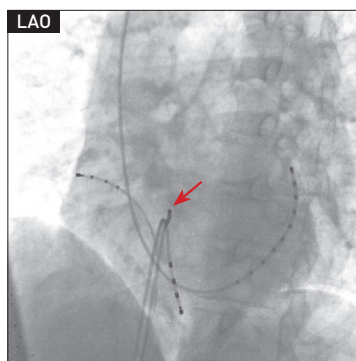
Steerable

Reference Electrode



Features

- Stable contact around the His bundle with upward shaping of the distal tip.
- His bundle potentials are easily mapped with wide 2mm electrodes (5555HIS-120R).
- Capable of mapping CS via IVC approach.
- Reference electrode for unipolar mapping (Situating at 20cm from the distal tip).



His	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Pentapolar/5F	5555HIS-120R	2	2	5-5-5-177	120

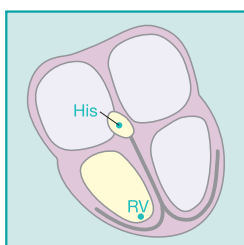
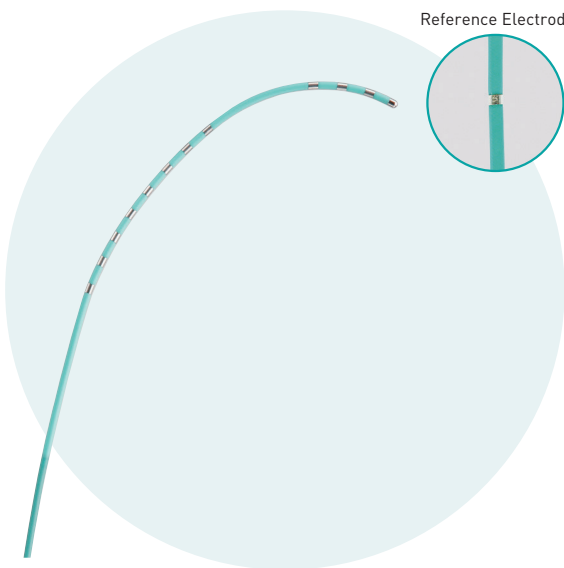
EPstar His-RV

Steerable

Features

- Capable of simultaneously mapping His bundle and RV areas.
- Quadrapolar for RV, octapolar for His bundle and 1 reference electrode, 13 electrodes in total.
- Steerable lineup for easier positioning.
- Less puncture sites
- Atraumatic catheter tip

Reference Electrode



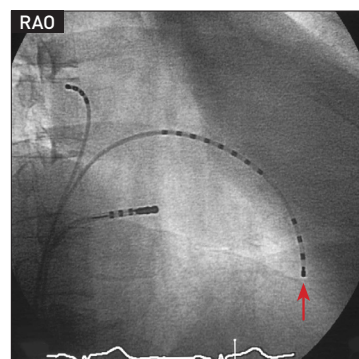
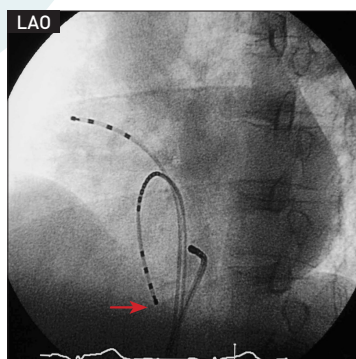
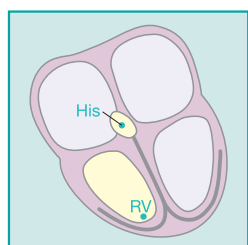
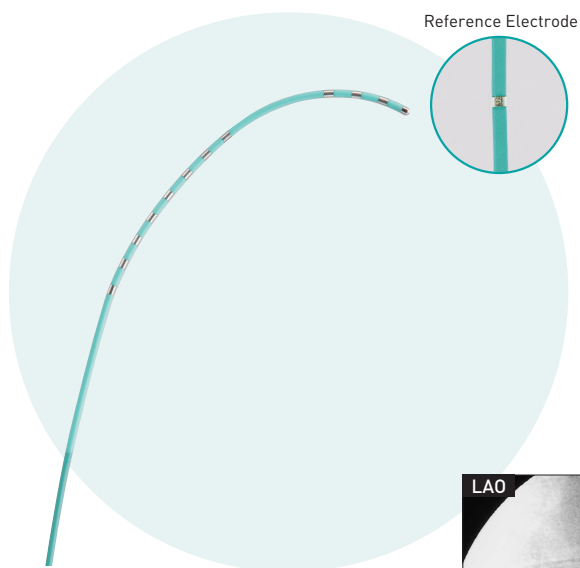
His-RV	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Decapolar/5F	10245M-L100R	2	2	2-36-4-4-4...	105
Tridecapolar (13)/5F	13445HV-R	2	2	4-4-4-23-4...113	105

EPstar Fix His-RV (NOGAMI CURVE)

Fixed

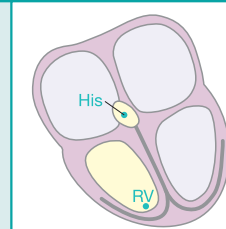
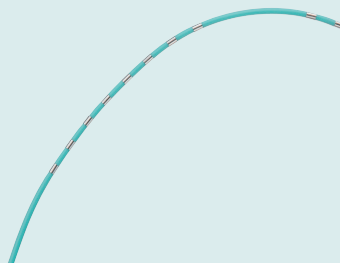
Features

- Capable of simultaneously mapping His bundle and RV areas.
- Quadrapolar for RV, octapolar for His bundle and 1 reference electrode, 13 electrodes in total.
- Clear and stable mapping of His bundle potentials where electrodes stays horizontal regardless of the size of the heart or distal tip position (apex or ventricular septum).



EPstar Fix His-RV

- Capable of simultaneously mapping His bundle and RV areas.
- Capable of mapping His-RVOT as well with shorter 23mm spacing between His bundle and RV electrodes.
- Suitable for pediatric cases with slimmer shaft of 4F.



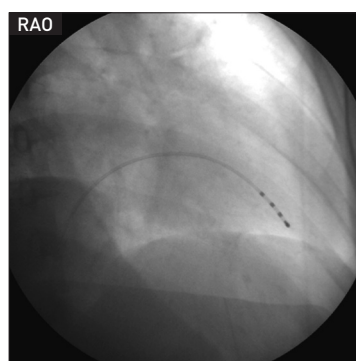
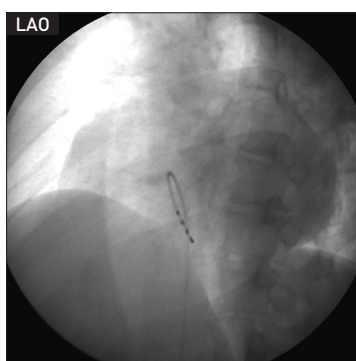
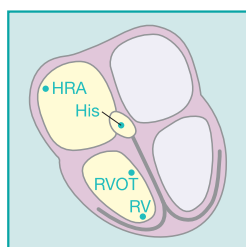
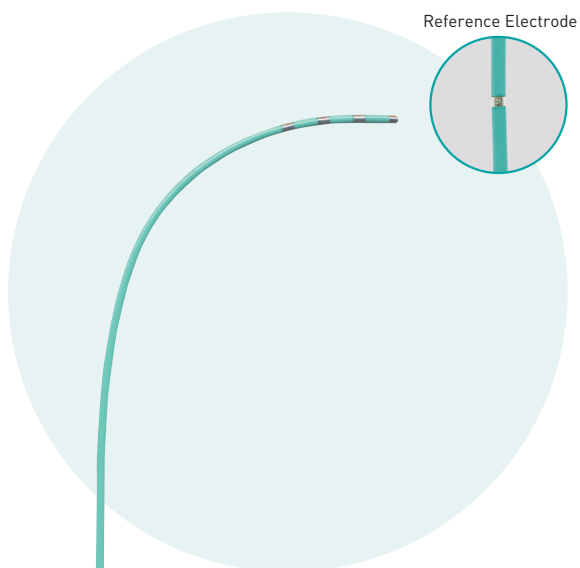
His-RV (NOGAMI CURVE)	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Tridecapolar (13)/5F	F13445HV-120R	2	2	4-4-4-23-4...113	120
His-RV					
Decapolar/4F	F10444HV-120	2	2	4-23-4-4-4...	120

EPstar Fix RV

Fixed

Features

- Distal tip curve shaped for smooth approach to RV.
- Shaft balance designed for stable contact.
- Reference electrode for unipolar mapping (Situating at 20cm from the distal tip).



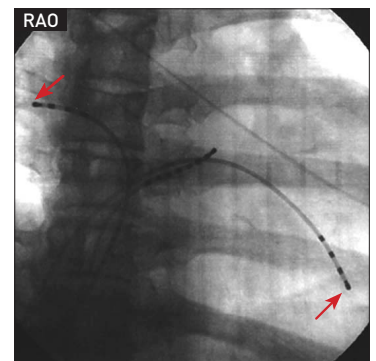
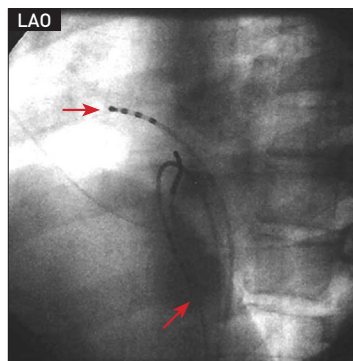
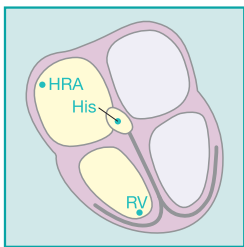
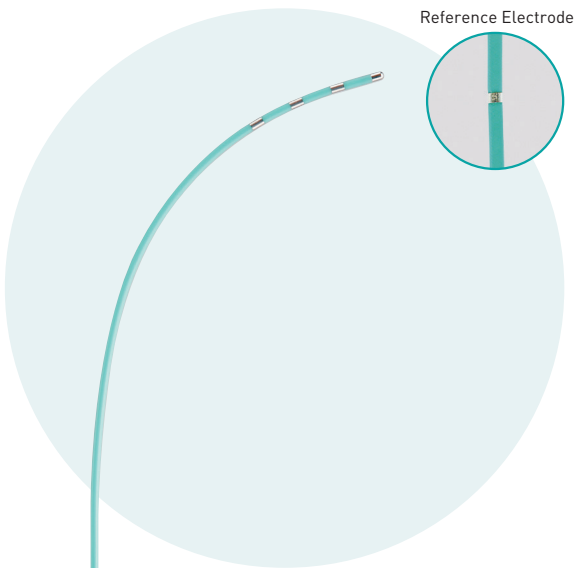
RV	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Pentapolar/5F	F5555RV-120R	2	2	5-5-5-177	120

EPstar Fix Josephson

Fixed

Features

- Capable of mapping HRA, His bundle and RA areas.
- Shaft balance designed for stable contact.
- Reference electrode for unipolar mapping (Situating at 20cm from the distal tip).



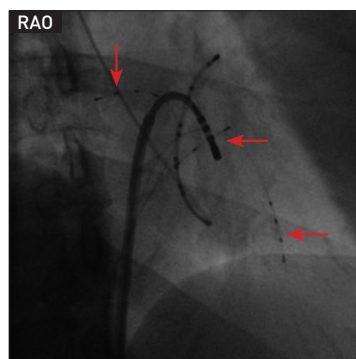
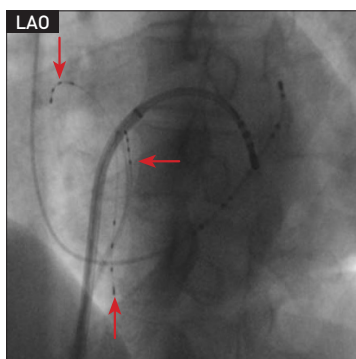
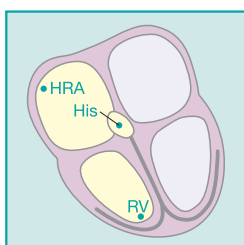
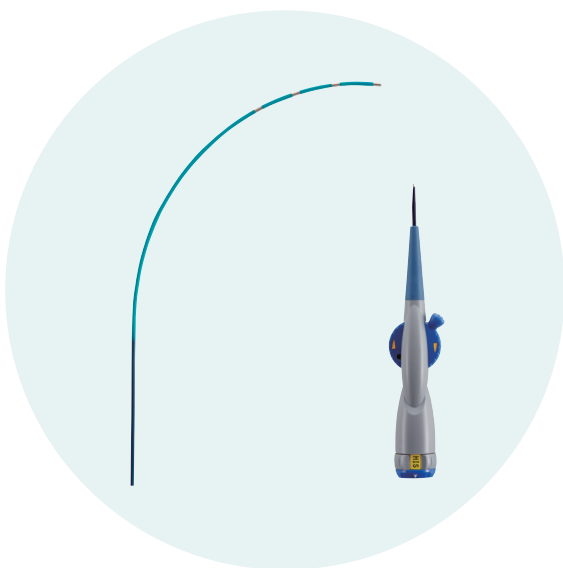
Josephson	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Pentapolar/4F	F5554J-120R	2	2	5-5-5-177	120
Pentapolar/5F	F5555J-120R	2	2	5-5-5-177	120

EPstar 2F Multi

Steerable

Features

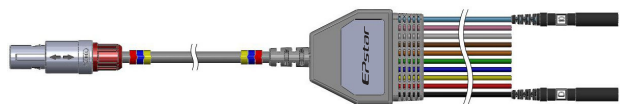
- Slim 2F OD multiple site mapping lineup.
- Slim shaft while maintaining stability.
- Suitable for pediatric cases.



2F Multi	Model No.	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing (mm)	Usable Length (cm)
Quadripolar/2F	4552M	1.5	1.3	5-5-5	90
	4552L	1.5	1.3	5-5-5	90

EPstar Electrode Cable

EPstar ELECTRODE CABLE			
Model No.	Pins	Usable Length (cm)	Compatible Catheter
3005-20	5	200	Quadripolar, Pentapolar
3010-20S	10	200	Hexapolar, Septapolar, Octopolar, Decapolar
3014-20	14	200	Hendecapolar, Tridecapolar[13]
3020-20S	20	200	Duodecapolar

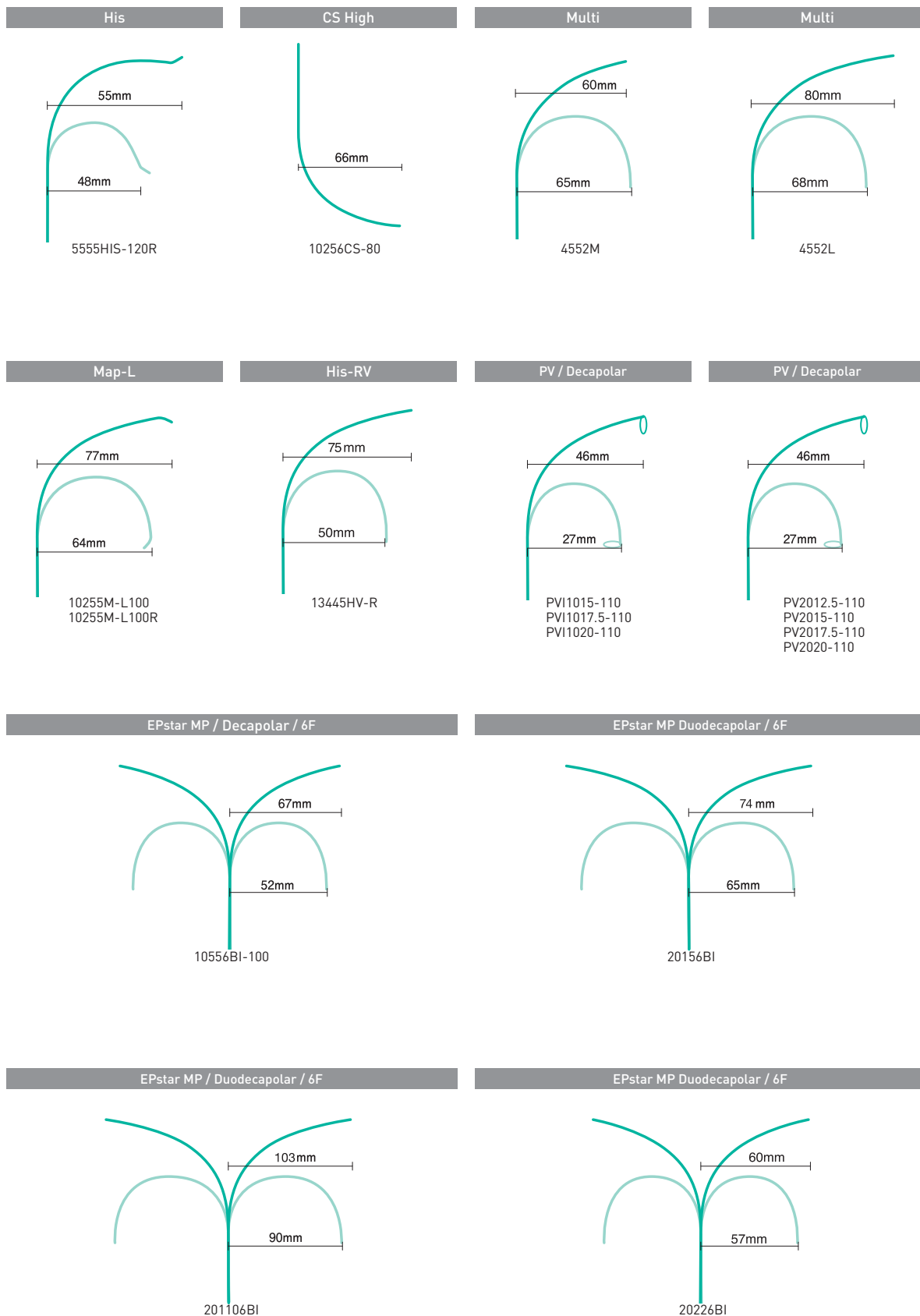


Electrode Cable

Cable Quick Reference

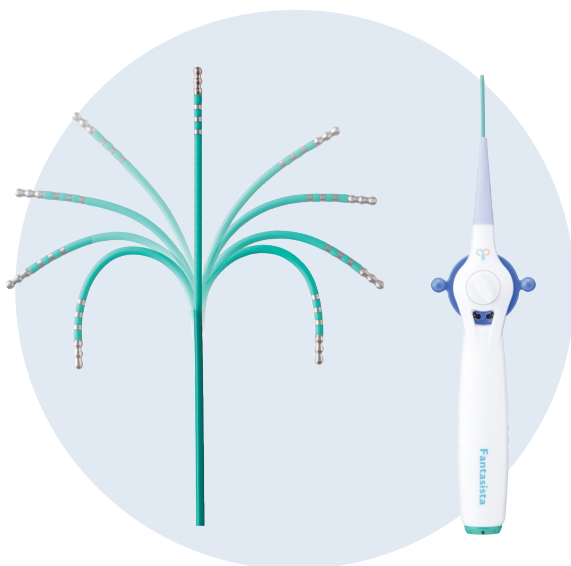
Product Name	Model Number	Number of Electrodes	Compatible Cable			
			3005-20	3010-20S	3014-20	3020-20S
EPstar Fix Josephson	F5554J-120R	5	●			
	F5555J-120R	5	●			
EPstar Fix RV	F5555RV-120R	5	●			
EPstar Fix 2F	F8552	8		●		
EPstar Fix AIV	F105527AVL	10		●		
EPstar Fix CS Lumen	F10556CSL-65HT	10		●		
	F11556CSL-95HT	11			●	
EPstar Fix His-RV	F10444HV-120	10		●		
	F13445HV-120R	13			●	
EPstar 2F Multi	4552M	4	●			
	4552L	4	●			
EPstar His	5555HIS-120R	5	●			
EPstar Multi	5555M-120R	5	●			
EPstar CS-High	10256CS-80	10		●		
EPstar Map	10255M-L100	10		●		
	10255M-L100R	10		●		
EPstar His-RV	10245M-L100R	10		●		
	13445HV-R	13			●	
EPstar MP	10556BI-100	10		●		
	20156BI	20				●
	201106BI	20				●
	20226BI	20				●
	10556BITS	10		●		
	10556BITS-3D	10		●		
	11555BITS-R	11			●	
	11556BITS-3DR	11			●	
	202586BITS	20				●
	20226BITS	20				●
EPstar PV	PVI1015-110	10		●		
	PVI1017.5-110	10		●		
	PVI1020-110	10		●		
	PV2012.5-110	20				●
	PV2015-110	20				●
	PV2017.5-110	20				●
	PV2020-110	20				●

Electrophysiology Catheter Curve Reference



Fantasista

Bi-Directional



Distal Tip



4mm

8mm

Features

- Bi-Directional
- Soft distal shaft: SS/MM models, Stiff distal shaft: ML models.
- SS/MM models are shaped for AF cases.
- Asymmetric ML models provide better contact with multiple approach options, suitable for AFL and AVNRT cases.

Fantasista 5F

- Bi-Directional.
- Slimmer shaft for aortic approach or pediatric cases.
- Long 5mm tip to balance ablation effectiveness of slimmer shaft.
- 24mm SS curve.



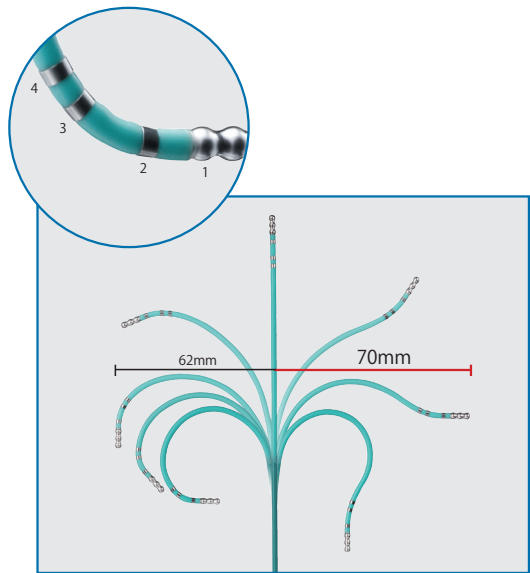
5mm

Model No.	Type	Curve Diameter (mm)	Distal Tip (mm)	Other Electrode(s) Width(mm)	Electrode Spacing(mm)	Usable Length (cm)	Recommended Sheath Size(F)
3221-4SS	SS	25 • 25	4	1.2	2-2-2	110	7
3221-4ML	ML	42 • 34	4	1.2	2-2-2	110	7
3221-4MM	MM	34 • 34	4	1.2	2-2-2	110	7
3221-8MM	MM	34 • 34	8	1.2	2-2-2	110	8
3221-8ML	ML	42 • 34	8	1.2	2-2-2	110	8
3221-8AFL	Knuckle	50 • 35	8	1.2	2-5-2	110	8
Fantasista 5F							
3115-5SS	SS	24 • 24	5	1	2-2-2	110	5.5

Recommended Model for AFL Cases

Knuckle Curve

- Asymmetric bi-directional curves provides multiple contact methods to the CTI.
- Stiffer shaft for improved CTI contact stability.
- Deflection point us between the 2nd & 3rd electrode.
- Larger electrode spacing and softer shaft between the 2nd & 3rd electrode provides finer tip control.

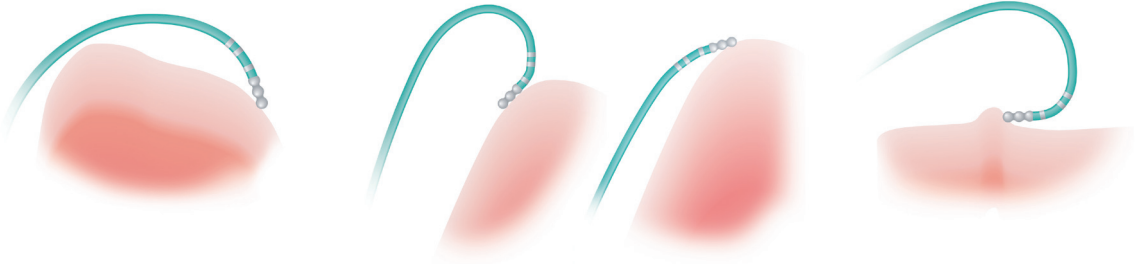


Knuckle Curve (Curve Reach 62mm)

Grasping the Tricuspid Annulus

Holding on to descending regions of the IVC

Anchoring on to protrusions

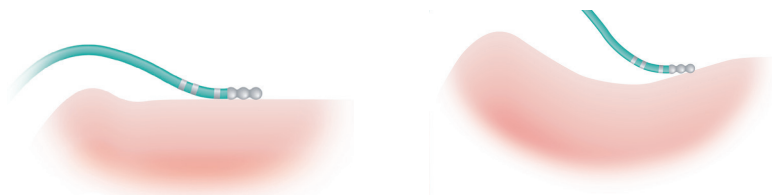


Effective ablation by holding on to the Tricuspid Annulus and descending regions of the IVC.

Long-Reach Curve (Curve Reach 70mm)

Reach wide isthmuses

For a variety of isthmus anatomies



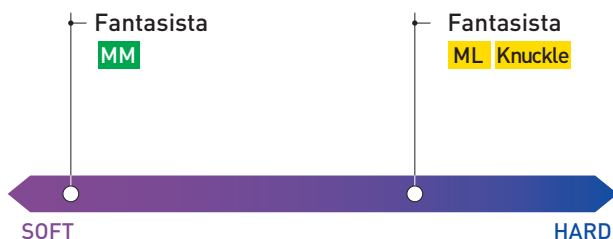
Curve reach of 70mm, capable of treating enlarged atriums.

Ablation Catheter Curve Reference

Curve Reach by Models

(mm)	33	39	43	44	46	47	48	50	51	52	53	54	55	57	62	63	70
4mm Tip 		SS				MM			ML-M		ML-L						
8mm Tip 									MM				ML-M	ML-L	Knuckle-K		Knuckle-L

Shaft Durometer by Models



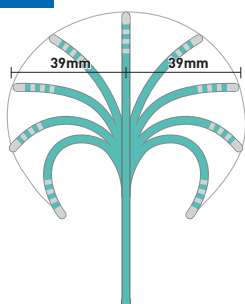
Distal Tip Electrode Variations



Fantasista Series

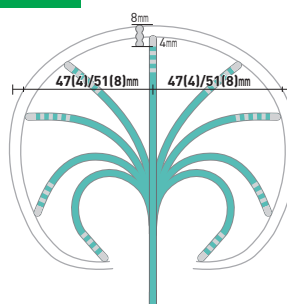
Number in []: Type of Distal Tip Electrode

SS



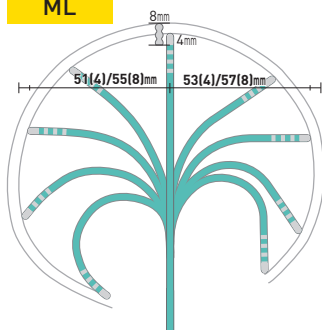
Curve Reach : 39mm • 39mm
Curve Diameter : 25mm • 25mm
Deflection Length : 58mm

MM



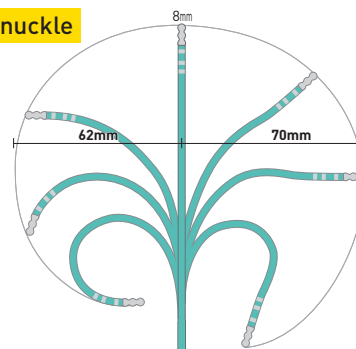
Curve Reach : 47(4)/51(8)mm • 47(4)/51(8)mm
Curve Diameter : 34mm • 34mm
Deflection Length : 65mm

ML

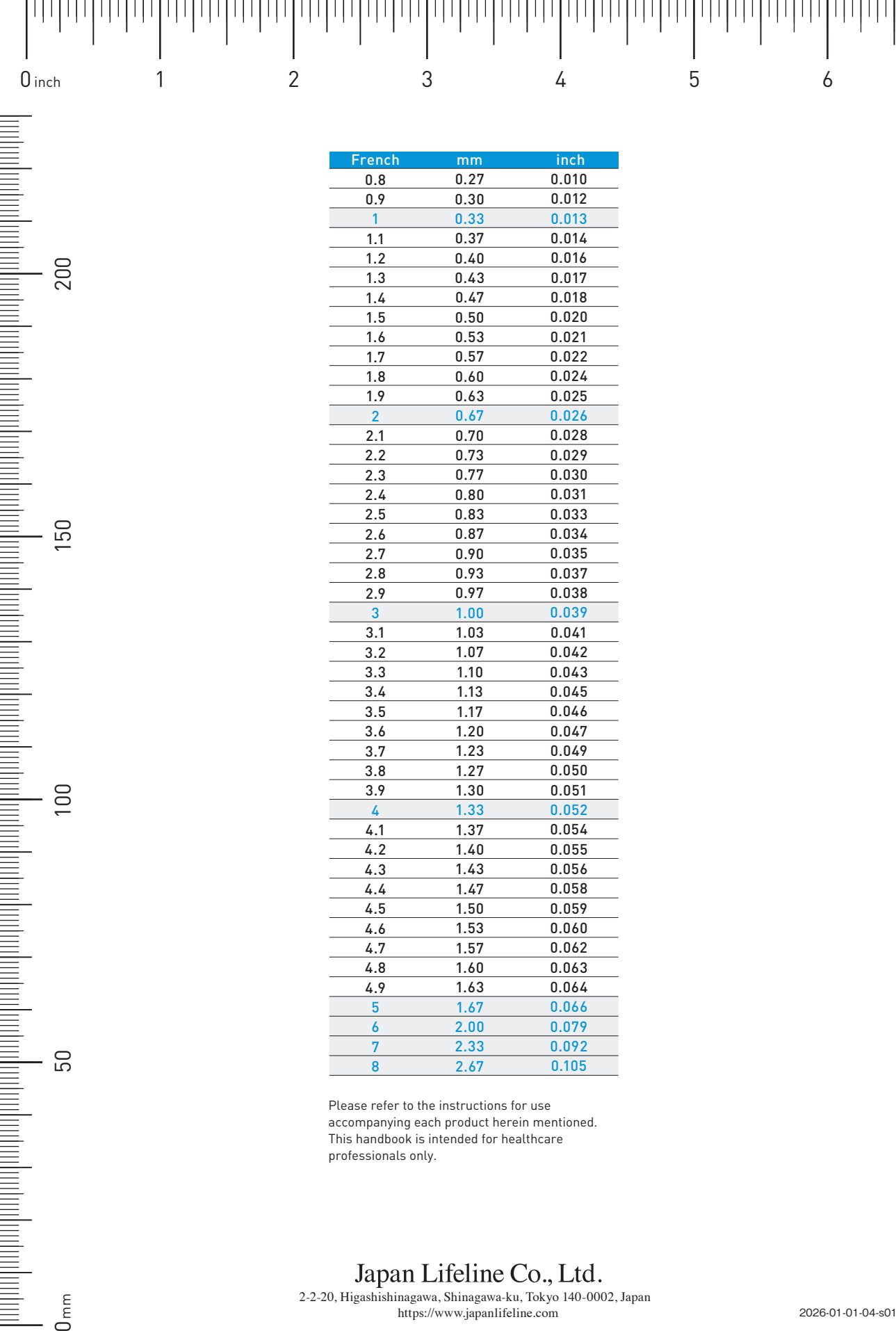


Curve Reach : 51(4)/55(8)mm • 53(4)/57(8)mm
Curve Diameter : 42mm • 34mm
Deflection Length : 75mm

Knuckle



Curve Reach : 62mm • 70mm
Curve Diameter : 50mm • 35mm
Deflection Length : 85mm



French	mm	inch
0.8	0.27	0.010
0.9	0.30	0.012
1	0.33	0.013
1.1	0.37	0.014
1.2	0.40	0.016
1.3	0.43	0.017
1.4	0.47	0.018
1.5	0.50	0.020
1.6	0.53	0.021
1.7	0.57	0.022
1.8	0.60	0.024
1.9	0.63	0.025
2	0.67	0.026
2.1	0.70	0.028
2.2	0.73	0.029
2.3	0.77	0.030
2.4	0.80	0.031
2.5	0.83	0.033
2.6	0.87	0.034
2.7	0.90	0.035
2.8	0.93	0.037
2.9	0.97	0.038
3	1.00	0.039
3.1	1.03	0.041
3.2	1.07	0.042
3.3	1.10	0.043
3.4	1.13	0.045
3.5	1.17	0.046
3.6	1.20	0.047
3.7	1.23	0.049
3.8	1.27	0.050
3.9	1.30	0.051
4	1.33	0.052
4.1	1.37	0.054
4.2	1.40	0.055
4.3	1.43	0.056
4.4	1.47	0.058
4.5	1.50	0.059
4.6	1.53	0.060
4.7	1.57	0.062
4.8	1.60	0.063
4.9	1.63	0.064
5	1.67	0.066
6	2.00	0.079
7	2.33	0.092
8	2.67	0.105

Please refer to the instructions for use
accompanying each product herein mentioned.
This handbook is intended for healthcare
professionals only.

Japan Lifeline Co., Ltd.

2-2-20, Higashishinagawa, Shinagawa-ku, Tokyo 140-0002, Japan
<https://www.japanlifeline.com>

2026-01-01-04-s01512