

Until now,  
dual lumen catheters  
for ECMO have come  
with tradeoffs.

You got better patient mobility than with single lumen catheters. But dual lumen catheters had drawbacks. They could be challenging to place correctly, and flow performance wasn't optimal.

In countless conversations with clinicians like you, we heard there was a need for a dual lumen device that addresses those issues. The Crescent™\* dual lumen catheter is the result.

The Crescent catheter is **the first FDA-cleared, jugular dual lumen long-term ECMO catheter**. It allows for **more accurate placement** with just one cannulation site, delivers **enhanced flow dynamics**, and **helps maintain optimal flow** once placed.

That flow efficiency, combined with patient mobility, makes the Crescent catheter a valuable addition to your ECMO toolkit and an important step in advancing patient outcomes.

## Medtronic and mc3 cardiopulmonary: Partners in advancing ECLS therapy

At Medtronic, we actively seek out opportunities to forge new partnerships, collaborating to solve the world's most challenging healthcare issues.

That's why we have partnered with MC3 Cardiopulmonary to develop next-generation technology, such as the Crescent catheter, specifically designed to help advance extracorporeal life support (ECLS).

MC3 Cardiopulmonary, founded in 1991 with the aim of commercializing intellectual property related to heart and lung technologies from the University of Michigan, is today focused on serving the global community by creating medical devices designed to address acute and chronic unmet cardiopulmonary clinical needs.

**As partners, we are working with a shared focus and passion for safely advancing ECLS therapy.**

### Ordering Information

CFN	French Size	Insertion Length	Connector	Configuration
70124	24 Fr (8.0 mm)	30.0 cm	3/8 inch	Pouch/Box of 1
70126	26 Fr (8.7 mm)	30.0 cm	3/8 inch	Pouch/Box of 1
70128	28 Fr (9.3 mm)	34.0 cm	3/8 inch	Pouch/Box of 1
70130	30 Fr (10.0 mm)	34.0 cm	3/8 inch	Pouch/Box of 1
70132	32 Fr (10.7 mm)	34.0 cm	3/8 inch	Pouch/Box of 1

This material should not be considered the exclusive source of information, it does not replace or supersede information contained in the device manual(s).

Please note that the intended use of a product may vary depending on geographical approvals.

See the device manual(s) for detailed information regarding the intended use, the (implant) procedure, indications, contraindications, warnings, precautions, and potential adverse events.

For a MRI compatible device(s), consult the MRI information in the device manual(s) before performing a MRI.

If a device is eligible for eIFU usage, instructions for use can be found at Medtronic's website manuals.medtronic.com.

Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

Medtronic products placed on European markets bear the CE mark and the UKCA mark (if applicable).

For any further information, contact your local Medtronic representative and/or consult Medtronic's websites.

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**Medtronic**  
Engineering the extraordinary

## Game-changing flow<sup>†</sup> for ECMO

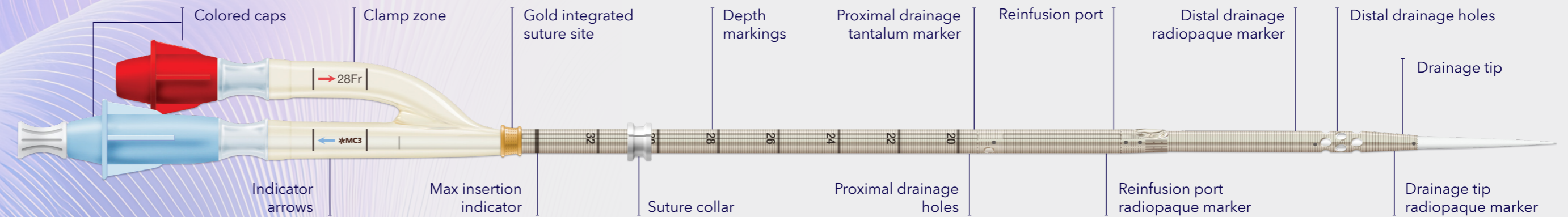
Crescent™\* Jugular Dual Lumen Catheter



- Correct Placement Made Easier
- Optimized Flow Rates<sup>†</sup>
- Durable Securement

# You asked. We answered.

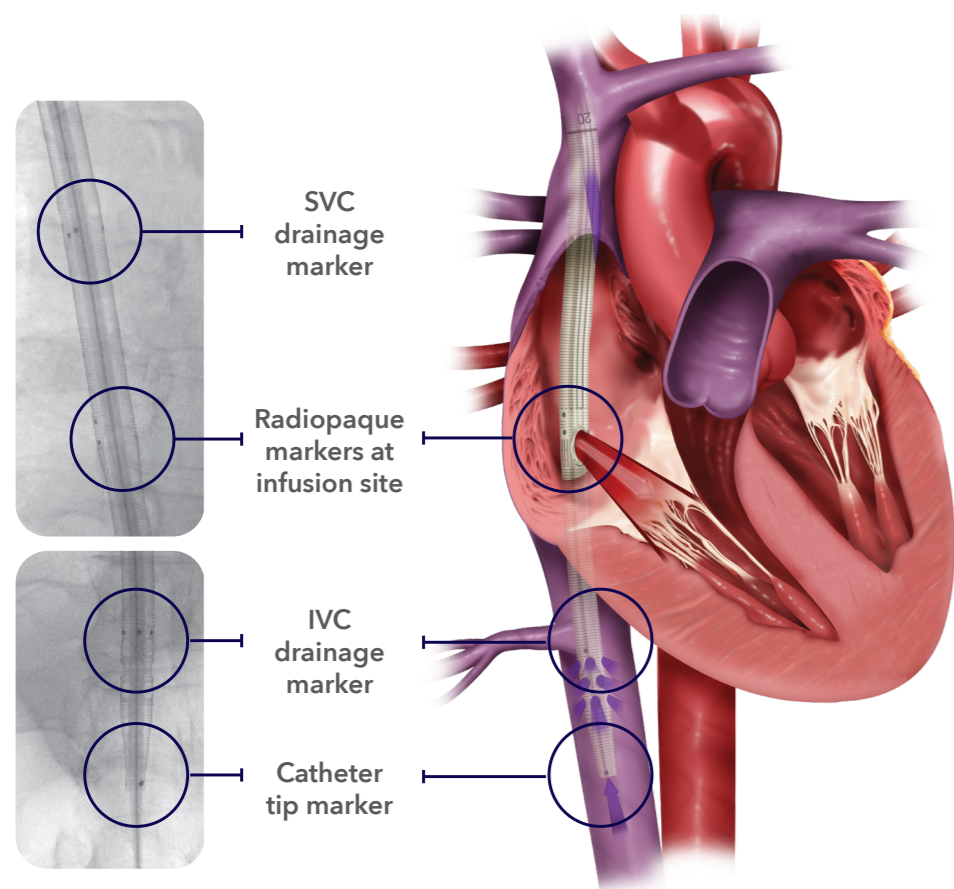
## Crescent™ Catheter Features



## Correct placement made easier

Optimal flow begins with correct placement, and that can be challenging. The Crescent™ dual lumen catheter was designed to address those challenges with novel features that make positioning and securement easier for you.

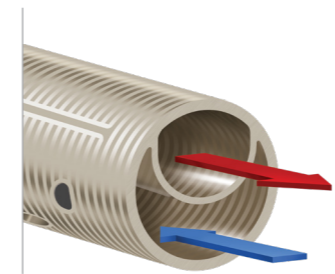
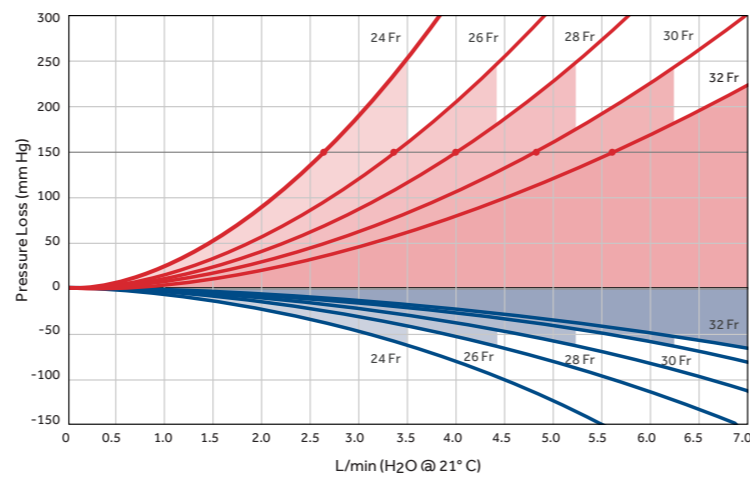
- **Radiopaque markers for improved visualization**  
Visible under radiographic imaging, tantalum markers aid in positioning the catheter; identifying drainage sites, infusion port, catheter tip, and axial orientation of the port.
- **Elongated introducer tip and tapered catheter tip**  
These design features ease the transition from introducer to catheter, for smoother, more confident insertion.



## Optimized flow rates

Enhancements in port placement, lumen design, and tip geometry give the Crescent catheter optimal flow efficiency. This enables you to realize higher flow at lower pressure and allows for lower rates of hemolysis and recirculation.

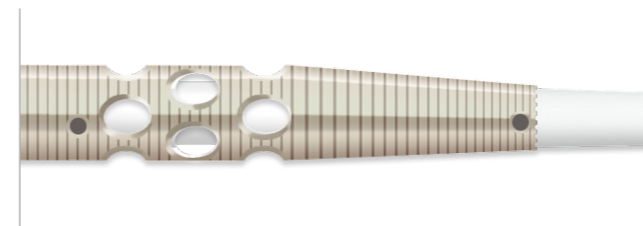
Crescent flow curves



- **Design enhancements for optimal flow**  
Crescent-shaped lumen helps optimize pressure flow performance, and advanced materials make the catheter strong, flexible, and kink-resistant.



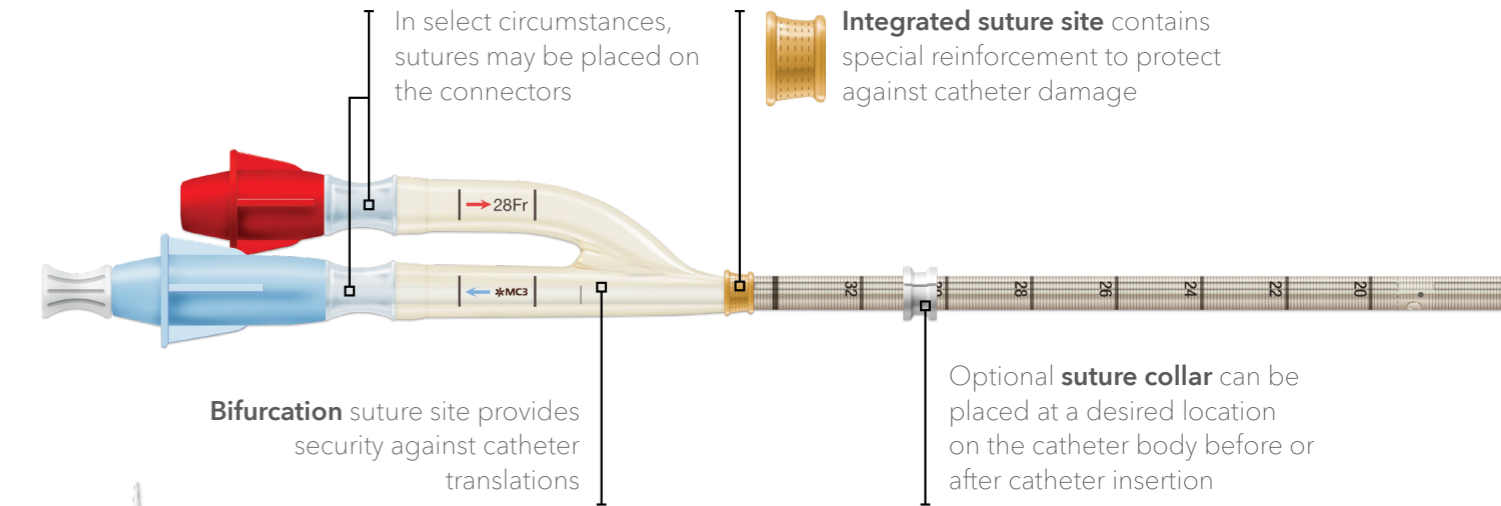
- **Promotes directional efficiency**  
Large infusion port, combined with radiopaque markers for placement accuracy, help ensure flow is directed toward the tricuspid valve – and pulmonary artery.



- **Helps minimize recirculation**  
Drainage and reinfusion ports are designed to mimic the body's natural flow ratios to minimize recirculation while maintaining flow.

## Durable securement

Maintain your desired flow, with features that keep the catheter securely in place during patient ambulation. Enhanced visualization makes it easy for you to verify that the device remains properly positioned.



- **Visual verification of placement**  
Improved visualization helps you quickly identify the catheter tip and orientation of the reinfusion port, and verify that accurate positioning is maintained over the course of the case.
- **Extended tip design helps maintain position**  
The tip of the catheter sits deeper in the IVC, reducing the chance of migration.
- **Added securement**  
Multiple suture points provide additional stability, reducing the chance of twisting or migration when the patient moves.