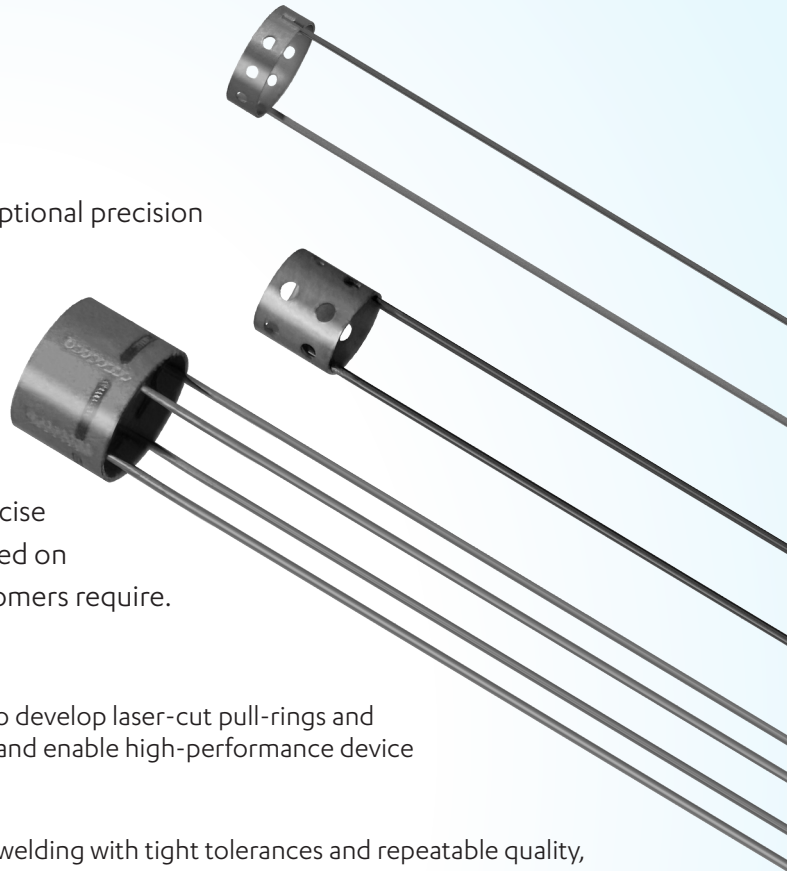




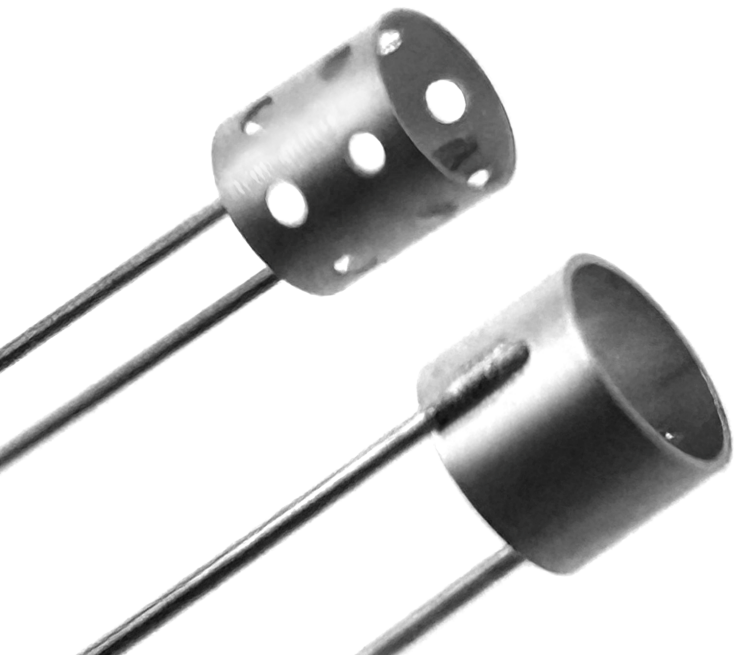
## Pull-Wire Assemblies

### Precision in Every Detail

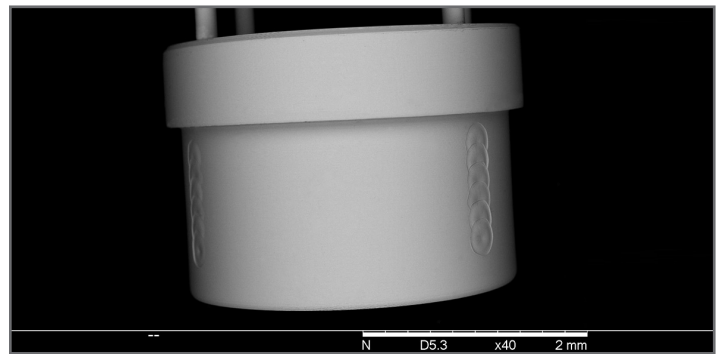
Integer crafts high-quality pull-wire assemblies with exceptional precision using advanced laser cutting and welding. Our engineers focus on every detail, including wall thickness and slot depth, to ensure reliable performance for a broad range of steerable catheters and delivery systems. Customize your pull-wire assembly with coatings to reduce friction, increase durability, and provide electrical insulation, all applied at tight tolerances for precise performance. Integer is your collaborative partner, focused on delivering the precision and quality your device and customers require.



- **Our engineering team applies deep design expertise** to develop laser-cut pull-rings and optimized welding processes that maximize pull strength and enable high-performance device functionality.
- **Our advanced laser systems** deliver precise cutting and welding with tight tolerances and repeatable quality, supporting high-volume manufacturing for complex assemblies with speed and reliability.
- **We offer a broad range of PTFE and parylene coatings** that enhance device performance across complex geometries. Our automated systems and process-driven quality controls ensure consistent and repeatable application.



## Ensuring Design Excellence



SEM imaging of the ring surface post-welding is utilized to evaluate the weld pool at high magnification and detect any potential microcracking

Capability	Range of Sizes	Materials	Features
<b>Laser Cutting</b>	Wall thickness as thin as 0.002"	Stainless steel, MP35N, Nitinol, Platinum	Tolerances of 0.0005" or less, kerf width as small as 0.0008" and wall thickness down to 0.002"
<b>Laser Welding</b>	N/A	Stainless steel, MP35N, Nitinol, Platinum	Minimal heat-affected zone, fast and repeatable, weld dissimilar metals
<b>Pull-Ring Assemblies</b>	6 – 36 Fr	Various raw materials	High performance, laser-welded, tensile-tested
<b>Precision Coating's PTFE Coatings</b>	N/A	Stainless steel, MP35N, Nitinol	Lubricious fluoropolymer coating solutions Automated liquid spray process can coat discrete lengths with superior deposition Atomized spray results in even coating with less ovality & more uniformity Excellent release & low friction (CoEff of Friction - 0.12)
<b>VSi Parylene Coating</b>	N/A	Stainless steel, MP35N, Nitinol	Parylene C - 5.6kV/mil isolation Parylene F & N - 7kV/mil isolation Integer specializes in processing to accommodate high throughput and uniform coating distribution. Alternatively, a thin layer of Parylene will function as a dry lubricity layer comparable to PTFE. Parylene N CoEff of Friction - 0.25 FE

## Ready to elevate your device performance?

Connect with Integer to discuss your next project. Our team is here to collaborate, customize, and deliver precise solutions that meet your exacting needs and requirements.

E-mail [CV-Solutions@integer.net](mailto:CV-Solutions@integer.net) to speak directly with a technical expert.



**Integer | Corporate Headquarters**  
5830 Granite Parkway, Suite 1150  
Plano, TX 75024  
CV-Solutions@Integer.net | [Integer.net](http://Integer.net)