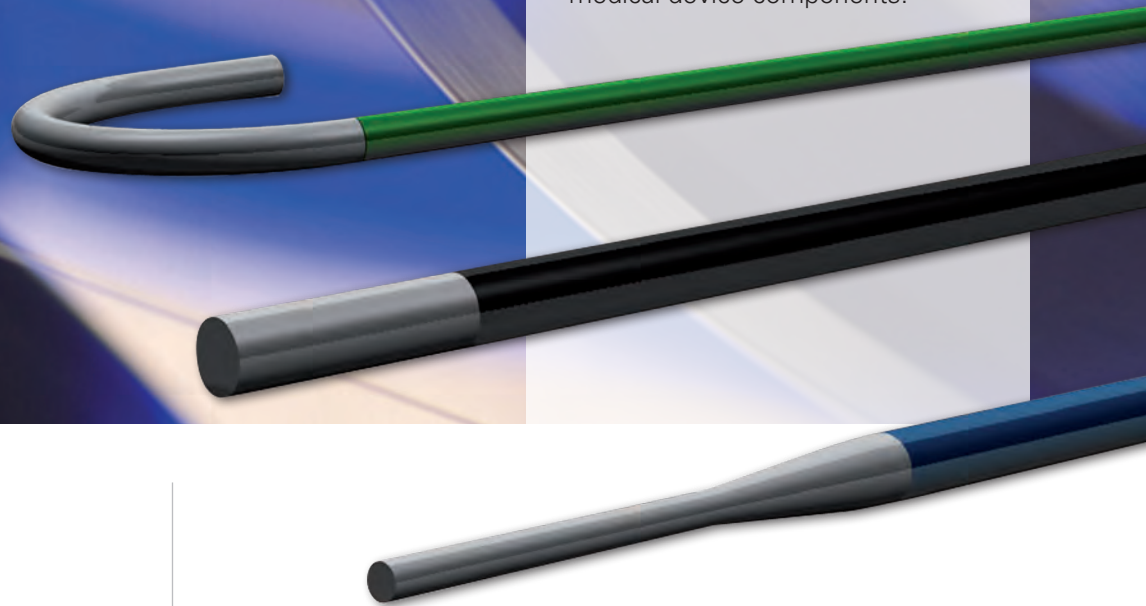


Coated Mandrels and Stylets

The Merit proprietary spool-to-spool coating process provides extremely uniform coatings for exceptional medical device components.



Mandrel Detail

With proven control over coating thickness, Merit Medical guarantees mandrels that provide consistent diameters, tight tolerances and smooth, low-friction surfaces required to design and deliver catheter tube ID solutions with ideal characteristics and superior release properties. Merit's mandrels are available in a variety of diameters and base materials, including stainless steel, nitinol and copper. Our unique continuous spool-to-spool coating process makes it possible to apply PFOA-free PTFE coatings to nitinol and other materials without compromising their elastic properties. Merit Medical can deliver your coated mandrel wires in a variety of ways, including on-spool, straightened and cut to specific lengths. Additionally, a variety of manufacturing and finishing processes are available, including laser ablation, laser-cut, rounded and tapered ends.

Coated Mandrels and Stylets Specifications



Tapered stylet

Merit Medical pioneered and continues to perfect the technology of reel-to-reel wire and polymer tube coating. These extremely detailed processes ensure the very highest levels of quality coated wire and tubing.

Key Characteristics

- Smooth surface
- Ultra-thin, well-defined coating
- Extremely consistent diameter
- Tight coating tolerance (2.5µm – 5.0µm)
- End shaping (uncoated skive, tapered section, bent or rounded ends)

Technical Information

Finishes and Finishing Processes

- Finishes: rounded, square-cut, tapered and bent ends
- Processes: grinding, laser ablation, cut-to-length, spool-to-spool coating

Diameter Range

- 0.127mm - 1.0mm (.005" - .039")
- 0.254mm – 1.4mm (.01" - .055") for copper; only on spool

Coating Options, Thicknesses

- PFOA-free PTFE LubriSkin™, HardSkin™, PES (PolyEtherSulfone) and DuraBond™
- 4µm - 10µm (.00016" - .0004") per side
- Other coating thickness on request

Base Materials

- Stainless Steel Wire (304, 304V, 304LVM, SS302, SS304V SLT®*)
- Nitinol
- Copper
- Other materials on request

Delivery Options

- On spool
- Straight and cut-to-length

Applications

- Release and Bonding Mandrels
- Coated Extrusion Needles
- Neuro-Probes
- Neurological Delivery Stylets



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