

# Coated Needle Components



The Merit proprietary spool-to-spool coating process makes it possible to apply superior uniform coating to needles in a cost-effective manner.



*Needle Detail*

With an advanced spool-to-spool continuous coating process that makes it possible to achieve uniquely thin, smooth and consistent coatings, Merit Medical's needle components combine larger inside diameters for optimal flow rates with smaller, smoother outer diameters for less painful insertions. Merit's coated needle components are available in a wide range of diameters and base materials, including stainless steel and nitinol. We offer a complete range of coating options, including PFOA-free PTFE coatings that can provide electrical insulation for low voltage applications. In addition, Merit can provide needles that are well-balanced with respect to stiffness and kink resistance for optimal performance. The needles are available in a variety of colors and can be supplied in defined lengths with markers and distal shape finishing according to your requirements.

# Coated Needle Components Specifications



Merit Medical has pioneered and continues to perfect the technology of reel-to-reel wire and polymer tube coating for the medical industry, resulting in a cost effective, superior product.

## Benefits of Coated Needles

- Wide range of OD/ID
- Smooth surface
- Ultra-thin, well-defined coating
- Extremely consistent diameter
- Tight coating tolerance (2.5 $\mu$ m - 5.0 $\mu$ m)
- Cost-effective coating process
- Ability to apply coatings up to 20 $\mu$ m per side for insulation purposes

## Technical Information

### In-House Finish and Finishing Processes

- Finish: laser ablation
- Processes: laser cutting, laser ablation, surface roughening, straightening, cut-to-length, cleaning, passivation, leak test and auto-inspection

### Diameter Range

- Tube: OD 0.30mm - 0.90mm (.012" - .035")  
Wall as thin as 0.05mm (.002")
- Wire: 0.127mm - 1.0mm (.005" - .039")

### Coating Options, Thicknesses and Colors

- PFOA-free PTFE LubriSkin™, DuraSkin™ or ShieldSkin™
- 4 $\mu$ m - 20 $\mu$ m (.00016" - .0008") per side
- Green, Blue, Black, Gray

### Base Materials

- Stainless Steel Wire (304, 304V and 304L)
- Other materials on request

### Delivery Options

- Coated tube on spool
- Straight and cut-to-length coated tube
- Straight, cut-to-length coated tube, distal end shaped

### Applications

- Hypodermic Needles
- EMG Needles
- Neuro-Probes



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