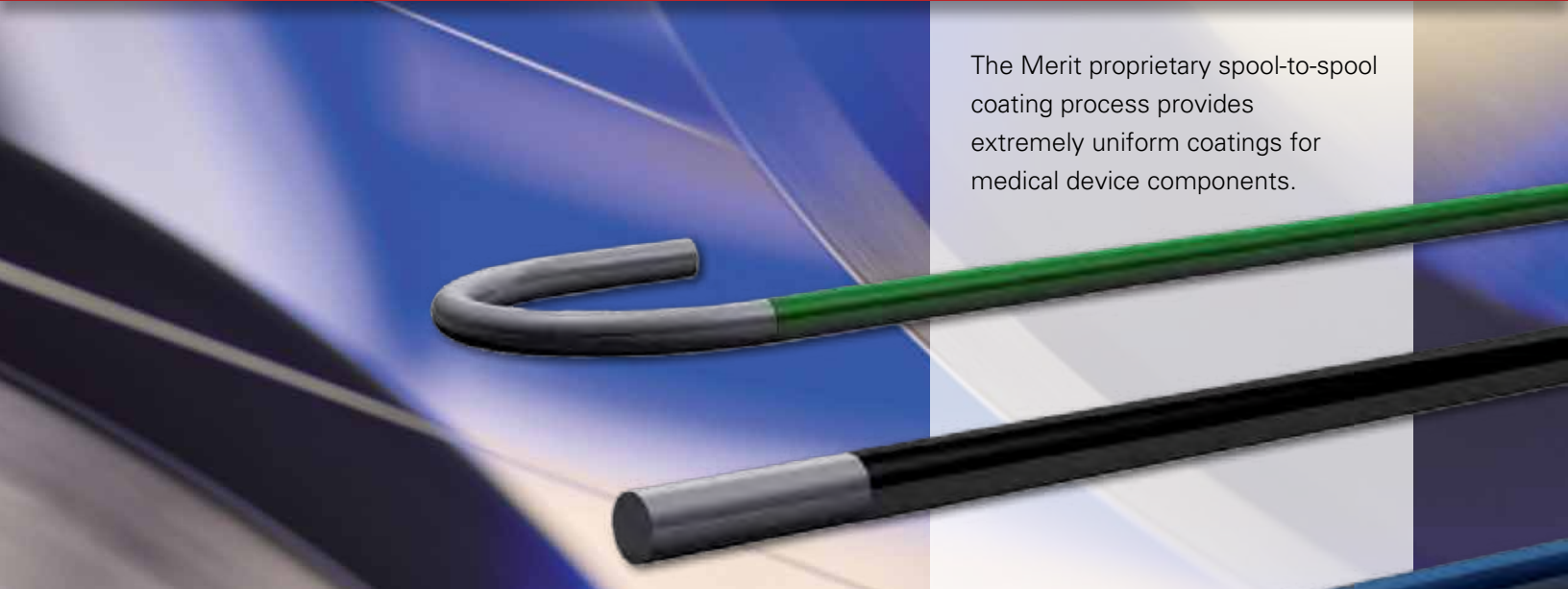



# Coated Stylets/Mandrels



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



*Mandrel Detail*



With proven control over coating thickness, Merit guarantees a consistent diameter and tight tolerances. Merit's cost effective PTFE coating is available on wire in a variety of materials, diameters and lengths.

Coated extrusion mandrel wire using Merit's low-friction coatings is frequently used to produce high-end medical tubing with well-defined tight tolerance ID's. Coated Stainless Steel or nitinol welding mandrels with uniform diameter and tight tolerances allow more design freedom for catheter tube ID's and improve release properties.

The unique coating process also allows Merit to apply its PTFE coatings onto nitinol without compromising its elastic properties. Many other applications are possible with the coated wire and mandrels, which are available in a variety of colors, either straightened on spool, or dead-straight and cut to length.

# Coated Stylets/Mandrels Specifications



*Mandrel Bended End*

MCTec has pioneered and grown the technology of reel-to-reel wire and polymer tube coating and has perfected reliable, cost-efficient coating processes for the medical industry. These 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 (2.5  $\mu\text{m}$  – 5.0  $\mu\text{m}$ )
- End shaping (uncoated skive, taper section, bending, rounded ends)

### LubriSkin™ PTFE

- Soft, flexible, thin coating
- Smooth surface
- Superior lubricity

### DuraSkin™ PTFE

- Durable, thin coating
- Smooth surface
- Lubricious

## Technical Information

### Coating

- PTFE (LubriSkin™ and DuraSkin™)

### Base Material

- Stainless Steel Wire (304, 304V or 316)
- Nitinol
- Platinum
- Pt/Ir
- Copper
- Tungsten
- Other materials on request

### Diameter Range

- 0.25 mm – 1.30 mm (.01" - .05") for Copper
- 0.038 mm – 1.00 mm (.0015" - .040") for other materials

### Standard Coating Thickness

- 4  $\mu\text{m}$  – 10  $\mu\text{m}$  (.00016" - .0004") / side
- Other coating thickness upon request

### Coating Colors

- Black, Blue, Clear, Green, Grey, White

### Delivery Options

- On spool
- Straightened and cut to length
- Straight on spool
- With shape ends upon request

### Applications

- Release and bonding mandrels
- Coated extrusion mandrels
- Neuro-probes
- Neurological delivery stylets



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