Coatings & Capabilities

Coating Capabilities

Bare Wire Diameter
- Stainless steel, Nitinol, platinum, etc - 0.038mm - 1.0mm (0.0015" -0.039")
- Copper - 0.254mm - 1.4mm (0.010"- 0.055")

Bare Tube Diameter
- Stainless steel - OD 0.30mm - 0.90mm (0.012" - 0.035")
- Walls as thin as 0.05mm (0.002")
- ID can vary

Coating Thickness
- Wires: 2 microns thickness per side to 20 microns thickness per side (0.00008" - 0.0008")
- Tubes: 4 microns thickness per side to 10 microns thickness per side (0.00016" - 0.0004")

PTFE Coatings

LubriSkin™

- Soft, flexible, thin coating
- Smooth surface
- Superior lubricity
- Tight tolerances
- Biocompatible according to ISO 10993

LubriSkin™ uses Merit's proprietary spool-to-spool process in the advanced three coat system with a 100% pure PTFE topcoat, providing exceptional performance where low friction is of critical importance.

Applications: *Guidewires, Stylets/Mandrels, and Needles*

Base Materials: *Stainless Steel, Nitinol, and other alloys*

Colors: *Green, Black, Blue, Grey*

DuraSkin™

- Durable, thin coating
- Smooth surface
- Lubricious
- Tight tolerances
- Biocompatible according to ISO 10993

DuraSkin™ uses Merit's proprietary spool-to-spool process in a two-coat system combining the low friction of PTFE and the toughness of polyethersulfone (PES) for a lubricious yet durable coating.

Application: *Stylets/Mandrels, Needles*

Base Materials: *Stainless Steel, Nitinol, Copper, Other Alloys*

Colors: *Green, Black, Blue, Grey, Clear*

HardSkin™

- Hard, thin coating
- Textured surface
- High wear resistance
- Tight tolerances
- Biocompatible according to ISO 10993

HardSkin™ uses Merit's proprietary spool-to-spool process, applying a single coat hydrophobic polymer blend for a very tough and hard surface finish.

Application: *Stylets/Mandrels, Needles*

Base Materials: *Stainless Steel, Nitinol, Other Alloys*

Colors: *Black*

Reinforced PTFE Coatings

DuraBond™

- Reinforced for superior cohesion
- Hard and smooth surface finish
- High wear resistance
- Biocompatible according to ISO 10993

DuraBond™ uses Merit's proprietary spool-to-spool process in a reinforced PTFE coating, providing a stronger bond between the various layers resulting in a harder surface.

Application: *Guide Wires, Stylets/Mandrels, Needles*

Base Materials: Stainless Steel, Nitinol, Other Alloys

Colors: *Green, Black, Blue, Grey, Clear*

Coated Mandrels & Stylets

Capabilities

Finishes: Rounded Ends; Shear Cut Ends; Taper; Custom Shapes

Processes: Grinding; Laser Coating Ablation; Cut-to-length; Spool-to-spool Precoating

Wire Diameter Range

- 0.127mm - 1.0mm (0.005" - 0.039")

Coating Options, Thicknesses & Colors

- PFOE-free PTFE LubriSkin™ HardSkin™ DuraBond™
- 4.0µm - 10.0µm (0.00016" - 0.0004") per side
- Other coating thicknesses upon request
- Green, Black, Blue, Grey, Clear

Base Materials

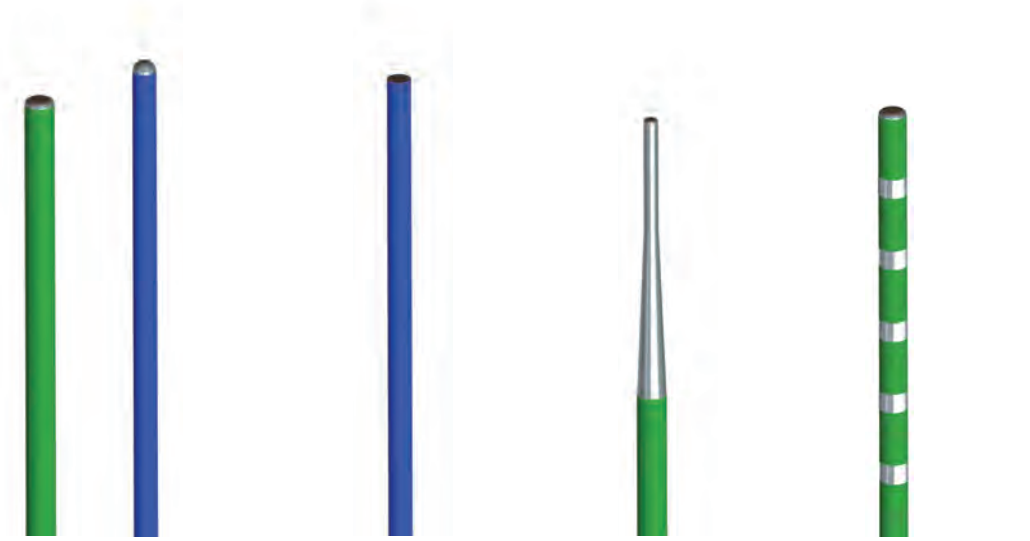
- Stainless Steel Wire (304, 304V, 304LVM, SS302, SS304V SLT*)
- Nitinol
- Other materials upon request

Delivery Options

- On spool
- Straightened and cut-to-length

Applications

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



Uncoated Rounded Ends | Shear Cut | Tapered | Laser Coating Ablation

** SS304V*

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