

Coated Hypotube Shafts



The Merit proprietary spool-to-spool coating process makes it possible to apply coating in a cost-effective manner onto hypotube-based device shafts in various diameters and lengths.



Hypotube Detail

Merit's coated hypotube shafts offer an extremely uniform covering of PTFE hydrophilic coating. The thin yet effective coating layer allows maximum design freedom for the tubing, especially when the inside and outside diameter is critical.

With its in-house knowledge and capabilities, Merit can provide hypotube shafts that are well-balanced with respect to stiffness, kink resistance and flexibility. The hypotube shafts are available in a variety of colors, and can be supplied in defined lengths, with shaft markers and distal shape finishing (stylet, skive, spiral cut and in combination) according to your requirements.

Coated Hypotube Shafts Specifications



Shaft Markers

Merit has pioneered and grown the technology of reel-to-reel wire and 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

- Wide range of OD/ID
- Various distal finishes possible (stylet, skive, spiral cut and in combination)
- Coated, cut to length and with shaft markers
- Textured surface area for improved bonding strength
- Smooth surface
- Ultra-thin, well-defined coating
- Extremely consistent diameter
- Tight coating tolerance (2.5 μm – 5.0 μm)
- Cost-effective coating process

LubriSkin™ PTFE

- Soft, flexible thin coating
- Smooth
- Superior lubricity

HardSkin™ PTFE

- Hard, rigid, thin coating
- Profiled surface
- Lubricious

DuraSkin™ PTFE

- Durable, thin coating
- Smooth surface
- Lubricious

SlipSkin™ Hydrophilic coating

- Increased wet lubricity
- Reduced friction level
- Flexible

Technical Information

Coating

- PTFE (LubriSkin™, HardSkin™, and DuraSkin™)
- Hydrophilic (SlipSkin™)

Base Material

- Stainless Steel Tube (304 or 304V)
- Nitinol Tube (superelastic or shape memory)
- Other materials on request

Diameter Range

- OD 0.30 mm – 0.90 mm (.012" - .035")
- ID upon request
- Wall as thin as 0.05 mm (.002")

Standard Coating Thickness

- 4 μm – 10 μm (.00016" - .0004") / side
- Other coating thickness upon request

Coating Colors

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

Delivery Options

- Coated tube on spool
- Straight and cut to length coated tube
- Straight and cut to length coated hypotube shaft (finished)

Applications

- Hypotube shafts for neuro-, cardio- en peripheral vascular devices
- Sensor wire tubing



1600 West Merit Parkway, South Jordan, UT 84095