



**TFX OEM[®] LARGE DIAMETER,
BRAID/COIL REINFORCED SHAFTS**

Custom Shafts – Up to 35F – with Dimensional Stability

LARGE DIAMETER SHAFTS – UP TO 35F – CUSTOMIZED TO YOUR EXACT SPECIFICATIONS

IF YOU CAN IMAGINE IT, YOU CAN ACHIEVE IT WITH TELEFLEX MEDICAL OEM

- Shafts up to 35F with thin walls
- Obtain large shaft diameters while maintaining dimensional stability and concentricity
- Braids with optional longitudinal wire reinforcement increase stability and pushability
- Liner/substrate options achieve lubricity, clarity, and cost considerations
- Custom-configure the stiffness of the tip and shaft segments
- Expert guidance on the selection of a braid/coil configuration and materials to achieve your requirements for flexibility, stability, and/or pushability
- Achieve radiopacity with the addition of marker bands or an encapsulated tungsten, tri-layer bright tip
- Contact Teleflex Medical OEM for customization options

MATERIALS

- Liner/substrate materials: FEP, PTFE, HDPE, Nylon, or customer specified
- Jacket materials: Pebax®, PUR, Nylon, or customer specified
- Braid/coil materials: Round or flat stainless steel wire, Nitinol, and non-metal materials
- Color match or custom color per customer specifications

RADIOPACITY OPTIONS

- Embedded or encapsulated marker bands
- Encapsulated tungsten (W) tri-layer or atraumatic tip
- High loading of conventional radiopaque fillers

INDUSTRY-LEADING

BRAIDING AND COILING CAPABILITIES

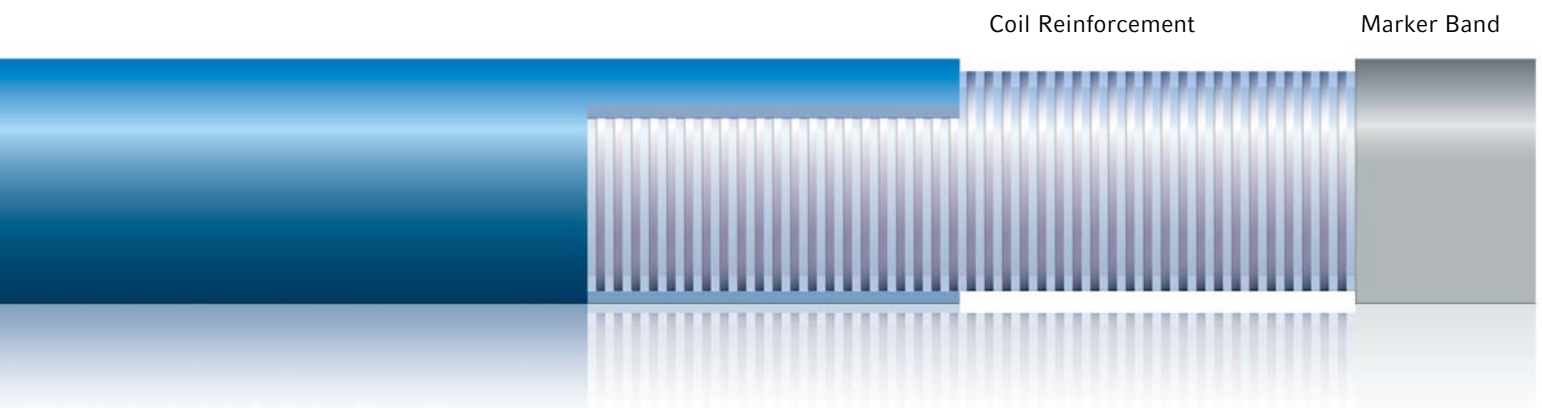
- Large diameter coiled shafts - *continuous process*
- Proprietary, variable pitch coiled shafts - *unique continuous process*
- Deep expertise in customizing shaft performance with wire patterns and sizes
- Vary the durometer and/or materials along the length of the shaft

SECONDARY PROCESSING AND STERILIZATION

- Flaring
- Hub options: Insert molding or custom hubs
- Tip attachment
- Atraumatic radiopaque tip
- Tip geometry customized to your application
- Product design configured to suit your sterilization method: Gamma, e-beam, or EtO

APPLICATIONS

- Diagnostic, therapeutic, and interventional procedures
- Vessel access and delivery



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VERTICALLY INTEGRATED, CONCEPT-TO-COMPLETION CAPABILITIES

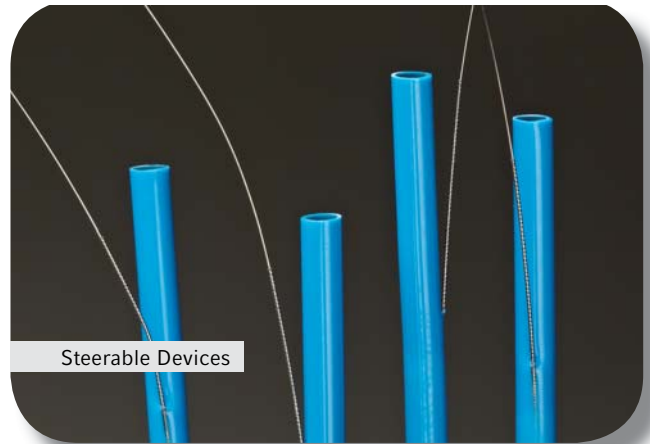
- Product concept development
- Product and process engineering
- Regulatory affairs
- Material selection
- Functional prototype development and fabrication
- Testing and validation
- Custom tooling
- Smooth transfer to manufacturing and scale up
- Extensive, in-house secondary processing services
- Assembly
- Packaging and labeling
- Sterilization

SHAFT GUIDE

Gauge (Size)	Nominal OD		Wall Thickness	
	inch	mm	inch	mm
10F	0.131	3.33	0.008	0.20
18F	0.236	6.00	0.010	0.25
30F	0.393	10.00	0.012	0.31



Coil-Reinforced Shafts



Steerable Devices

Teleflex[®]
MEDICAL OEM

www.teleflexmedicaloem.com

Teleflex Medical OEM is a market leader in providing design, development, and production services to medical device manufacturers across the world. We set ourselves apart with deep expertise, decades of experience, and integrated, concept-to-completion capabilities, which include:

- Product concept and design specifications
- Regulatory affairs
- Materials selection
- Rapid prototyping
- Testing and validation
- Custom tooling
- Manufacturing
- Secondary processing
- Assembly and packaging

You can count on Teleflex Medical OEM to deliver industry-leading innovations and next-generation solutions for precision extrusions, high-performance interventional catheters, sutures, performance fibers, bioresorbable resins and yarns, and custom medical devices. For detailed information, see www.teleflexmedialoem.com.

Teleflex Incorporated is a leading global provider of specialty medical devices used for diagnostic and therapeutic procedures in critical care and surgery. Our mission is to provide solutions that enable healthcare providers to improve outcomes and enhance patient and provider safety. We specialize in devices for general and regional anesthesia, cardiac care, respiratory care, urology, vascular access and surgery and we serve healthcare providers in more than 130 countries. For detailed information, see www.teleflex.com

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