TFX OEM® LARGE DIAMETER, BRAID/COIL REINFORCED SHAFTS
Custom-Engineered Shafts – Up to 35F – with Dimensional Stability
WORK WITH THE EXPERTS® IN LARGE DIAMETER, REINFORCED SHAFTS

THE TELEFLEX MEDICAL OEM TEAM IS READY TO HELP YOU SUCCEED

- Shafts up to 35F with thin walls
- Obtain large shaft diameters while maintaining dimensional stability and concentricity
- Braids with optional longitudinal 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

FINISHING OPERATIONS
- Flaring
- Hub options: Custom over molded options or standard hubs (adhesively bonded)
- Tip attachment
- Atraumatic radiopaque tip
- Tip geometry customized to your application
- Product design configured to suit your sterilization method: Gamma, e-beam, autoclave, or EtO

APPLICATIONS
- Diagnostic, therapeutic, and interventional procedures
- Vessel access and delivery
VERTICALLY INTEGRATED CAPABILITIES

- Product concept development
- Engineering
- Design for manufacturability
- Regulatory affairs
- Material selection
- Prototyping, testing, and validation
- Production process development
- Custom tooling
- Manufacturing
- Extensive, in-house finishing operations
- Assembly
- Packaging, and labeling
- Sterilization

SHAFT GUIDE

<table>
<thead>
<tr>
<th>Gauge (Size)</th>
<th>Nominal OD inch</th>
<th>Wall Thickness inch</th>
<th>mm</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>10F</td>
<td>0.131</td>
<td>0.008</td>
<td>3.33</td>
<td>0.20</td>
</tr>
<tr>
<td>18F</td>
<td>0.236</td>
<td>0.010</td>
<td>6.00</td>
<td>0.25</td>
</tr>
<tr>
<td>30F</td>
<td>0.393</td>
<td>0.012</td>
<td>10.00</td>
<td>0.31</td>
</tr>
<tr>
<td>35F</td>
<td>0.459</td>
<td>0.012</td>
<td>11.66</td>
<td>0.31</td>
</tr>
</tbody>
</table>

www.teleflexmedicaloem.com
Work with the experts® at Teleflex Medical OEM. We are a leader in providing medical product development and production services to medical device manufacturers across the world. We set ourselves apart with extensive, vertically-integrated capabilities, deep expertise, and decades of experience. Our services include:
- Product concept development
- Engineering
- Design for manufacturability
- Regulatory affairs
- Material selection
- Prototyping, testing, and validation
- Production process development
- Custom tooling
- Manufacturing
- Finishing operations
- Assembly and packaging

You can count on Teleflex Medical OEM to deliver industry-leading innovations and next-generation solutions for extrusions, diagnostic and interventional catheters, balloons and balloon catheters, specialty sutures and fibers, and bioresorbable sutures, yarns and resins. For more information, see www.teleflexmedicaloem.com.

Teleflex Incorporated is a global provider of medical technologies designed to improve the health and quality of people’s lives. We apply purpose-driven innovation – a relentless pursuit of identifying unmet clinical needs – to benefit patients and healthcare providers. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anesthesia, cardiac care, urology, emergency medicine and respiratory care. Teleflex employees worldwide are united in the understanding that what we do every day makes a difference. For more information, see www.teleflex.com

GLOBAL CONTACTS

LIMERICK, REPUBLIC OF IRELAND
Phone: +353.61.331906

JAFFREY, NH AND PLYMOUTH, MN FACILITIES
Toll free: 800.474.0178
Phone: 508.964.6021

TELEFLEX MEDICAL OEM
- E-mail: oeminfo@teleflex.com
- Internet: www.teleflexmedicaloem.com

WORK WITH THE EXPERTS®

©2016 Teleflex Incorporated. All rights reserved. Teleflex, TFX OEM, “Work with the Experts” and “Imagine It. Achieve It.” are registered trademarks or trademarks of Teleflex Incorporated in the U.S. and/or other countries. Pebax is a registered trademark of Arkema. 1064-R01/16