# GO DISTAL...

## MORE TRACKABILITY FOR MORE SUPPORT[1]

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CERENOVUS

PART OF THE Johnson&Johnson FAMILY OF COMPANIES

CEREBASE™ DA

guide sheath

# ENGINEERED TO SECURE DISTAL ACCESS FOR GEOMETRIC ANCHORING[2]


## MORE SUPPORT[1]

**ENGINEERED TO SECURE DISTAL ACCESS FOR GEOMETRIC ANCHORING, RESULTING IN MORE PROCEDURAL SUPPORT[2].**

**FEATURES:**

- More proximal shaft stiffness designed for arch support[3]
- More procedural support[2]

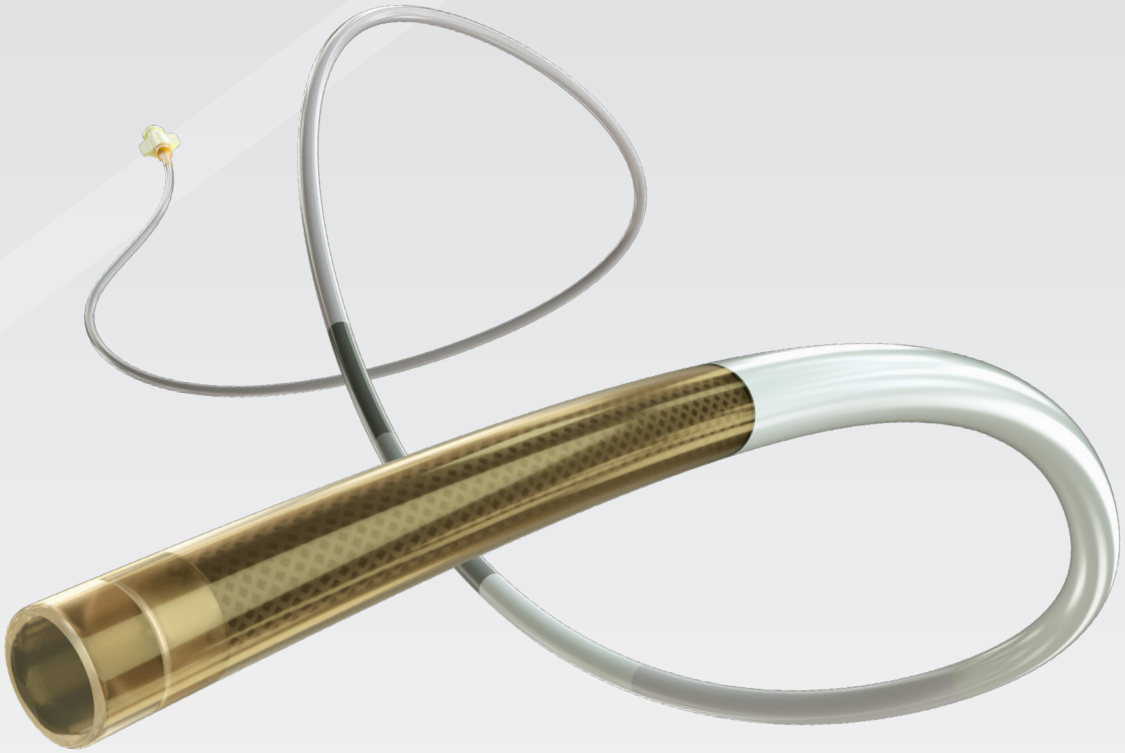
## MORE TRACKABILITY[1]

**DEX TIP FACILITATES TIGHT TURNS FOR ENHANCED TRACKING THROUGH CHALLENGING ANATOMY**

**FEATURES:**

- DEX Tip - short, flexible and soft[4]
- Soft and compliant, rounded distal edges
- Flexibility of the CEREBASE™ DEX Tip is similar to the flexibility of an aspiration catheter
- Smooth transition zones for pushability
- Excellent[5] kink resistance

# CEREBASE™ DA
## guide sheath



**CEREBASE™ DA Guide Sheath**

| Product Code | ID | OD (compatible short sheath) | Usable Length |
|---|---|---|---|
| GS9080SD | 0.090" | 8F | 80cm |
| GS9090SD | 0.090" | 8F | 90cm |
| GS9095SD | 0.090" | 8F | 95cm |

[1] More trackability and more support than NeuronMax™, Infinity™, Shuttle™ and Fubuki™. More support than Ballast™.
[2] More support than Neuron™ MAX, Infinity™, Shuttle™, Fubuki™ and Ballast™ when placed in a distal cervical position.
[3] More shaft stiffness than Neuron™ MAX, Infinity™, Shuttle™, Fubuki™ and Ballast™
[4] Short flexible and softer than Neuron™ MAX, Infinity™, Shuttle™, Fubuki™ and Ballast™.
[5] More kink resistance than Neuron™ MAX, Infinity™, Shuttle™, Fubuki™, Ballast™.
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Competitive Test Report #103618595 Rev.2, April 2020
Competitive Test Report #10364599 Rev.1, April 2020
Competitive Test Report #103628641 October 2019 (Aspiration Catheter
Turk A, Manzoor MU, Nyberg EM, et la_ Initial experience with distal guide catheter placement in the treatment of cerebrovascular disease: clinical safety and efficacy_J Neurointerv Surg_2013 May;5(3):247-52. doi: 10.1136/neurintsurg-2011-010256. Epub 2012 Mar 13



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**Important information:** Prior to use, refer to the instructions for use supplied with this device for indications, contraindications, side effects, warnings and precautions.

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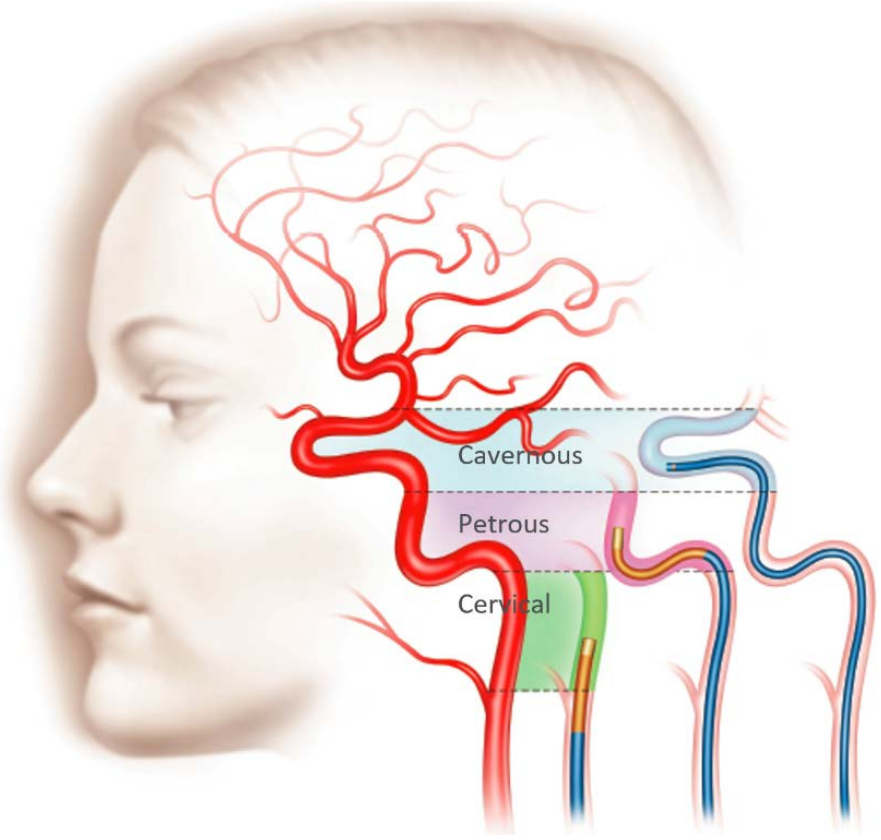
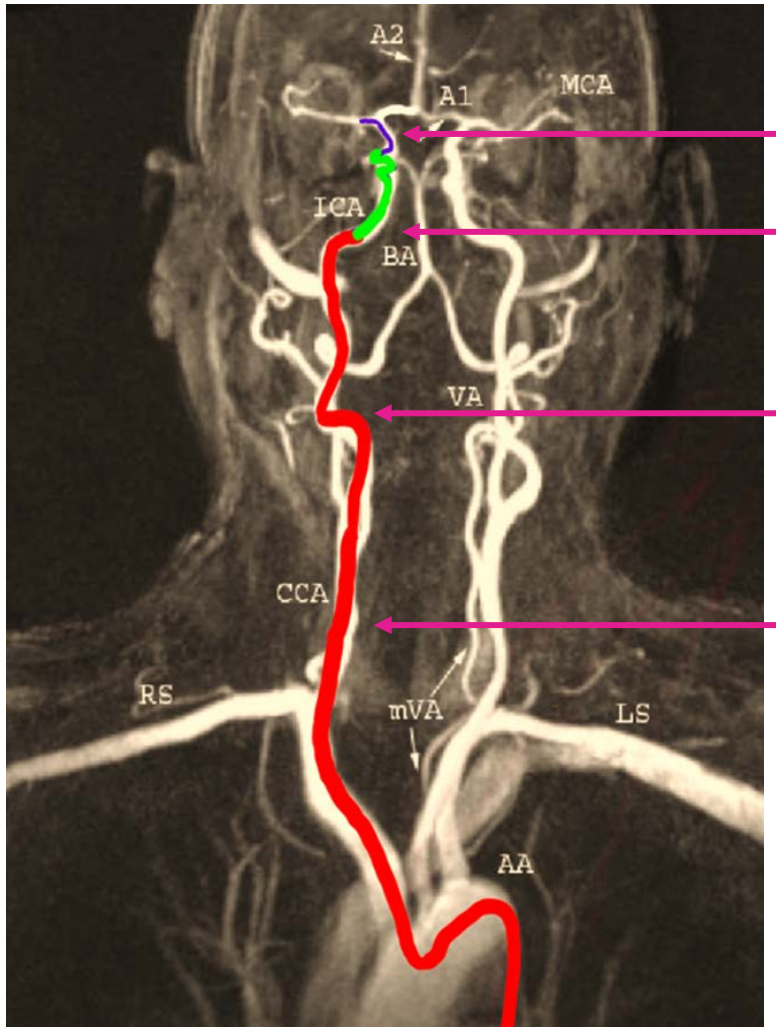
# Standard Access Placement




- Long Guide Sheath (CEREBASE)
- Traditional Guide Catheter (ENVOY)
- Distal Access Guide Catheters
- Intermediate Catheters



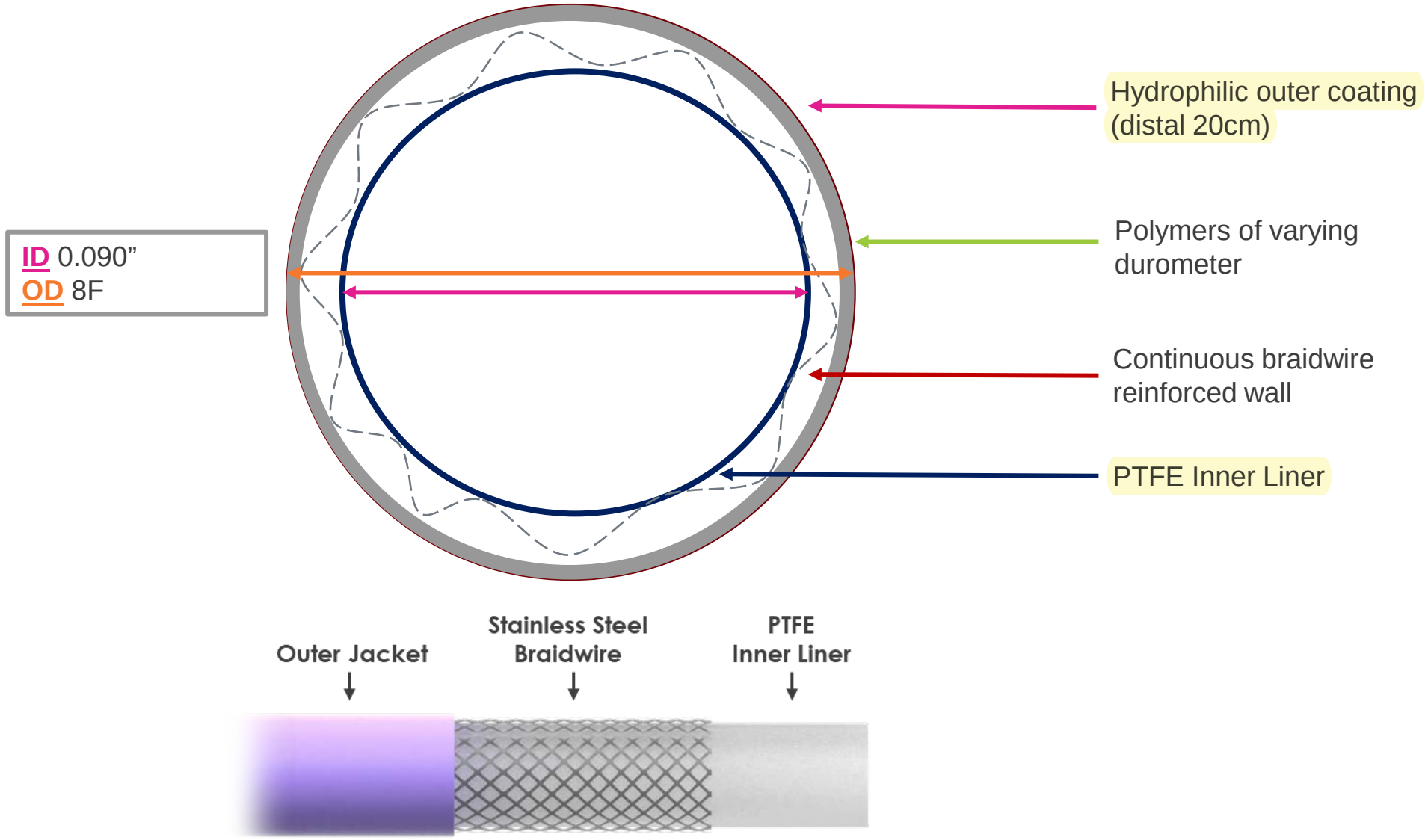

Microcatheter

Intermediate Catheter

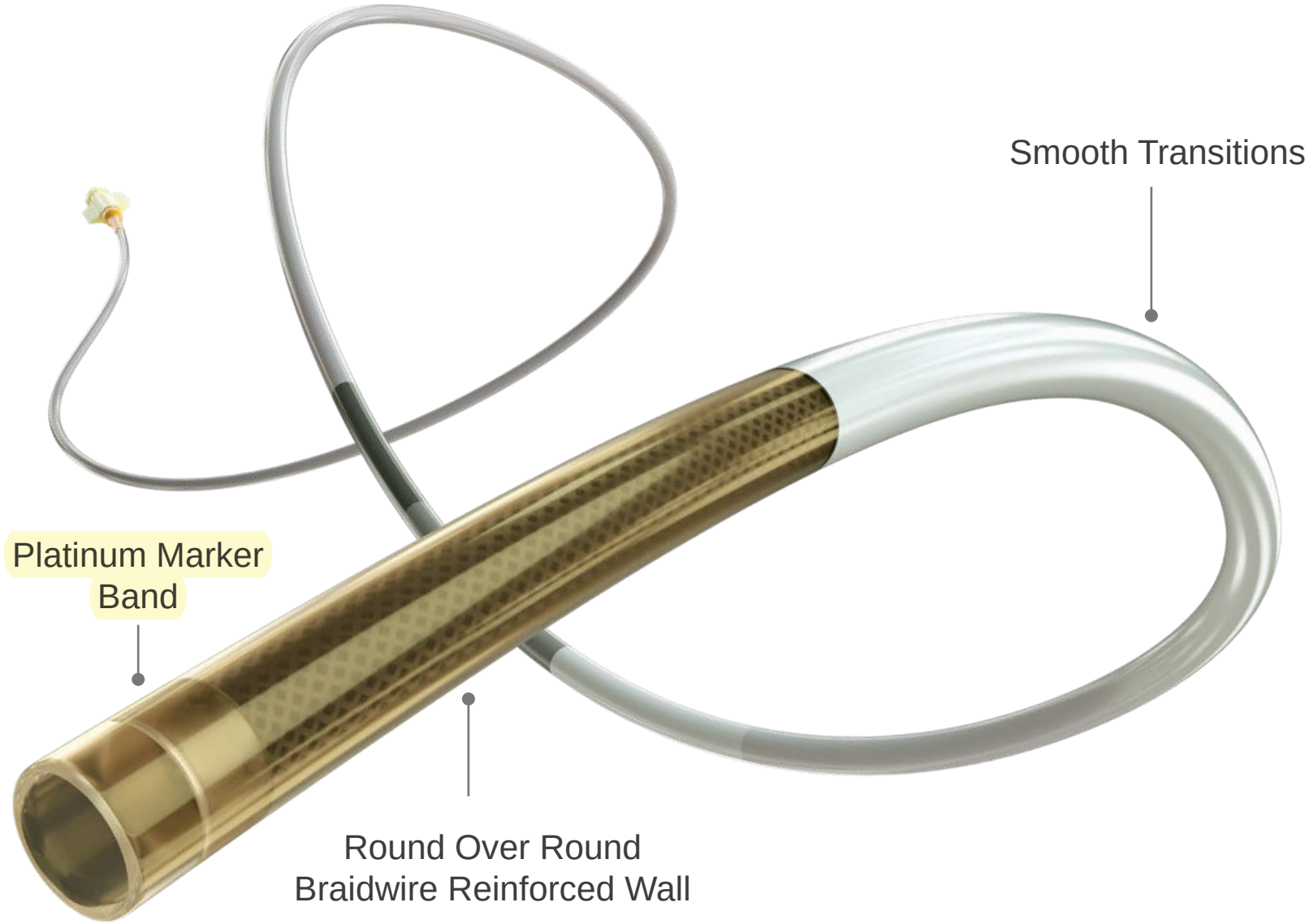
BASE Catheter (DISTAL ACCESS)
- Distal Access Guide Catheter (ENVOY DA)
- **New category! Distal Access Long Guide Sheath CEREBASE DA**

BASE Catheter
(Regular & Distal Access)
- Long Guide Sheath
- Guide Catheter
- Balloon Guide Catheter

# Large Bore Catheter Cross Section



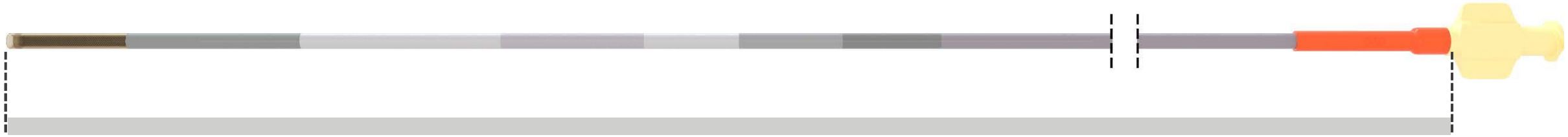
# CEREBASE Design Overview



# Inner Liner – PTFE

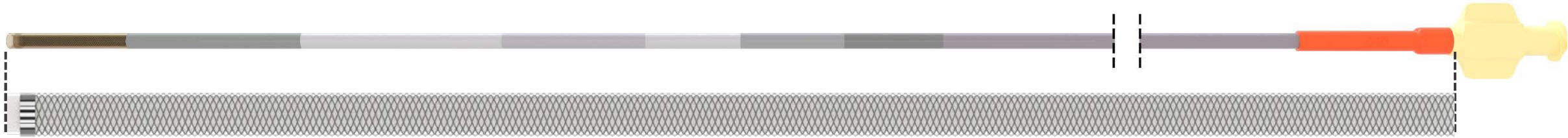
Continuous PTFE liner from proximal end to distal tip

- PTFE balance of lubricity and durability for device exchange



# Reinforced Walls – Continuous Braidwire

- Continuous Stainless Steel Braidwire Reinforcement
  - Braidwire from proximal end to distal tip
  - Single material, stainless steel, so no transitions to different reinforcement material
  - Round over round braid
- Continuous Braid Density
  - Density directly related to Picks Per Inch (PPI) – recall PPI is a count of the number of times a braid is crossed per inch
    - Higher PPI = more braid crosses = higher density
    - Lower PPI = less braid crosses = lower density
  - Continuous density means the PPI remains constant the entire length of the catheter
    - Adds to the stability of the braid



# Multiple Segments – 12 Segments with Smooth Transitions

12 Segments relates to the polymer jackets on outside of the catheter

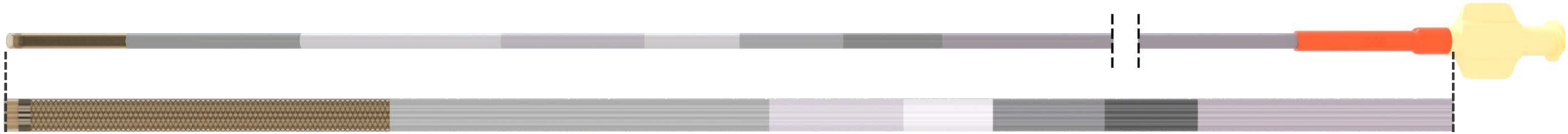
Note: color change on catheter does not correlate directly to segment

Profile depends on two characteristics:

- Durometer: Hardness of the polymer used; main determinant of the stiffness / flexibility of the segment
- Extrusion Process:
  - Different sections are extruded to be thinner closer to the distal tip, reducing the polymer thickness
  - Leads to a thinner material, reducing wall thickness – ID remains the same, reduces OD of catheter

So what really affects the stiffness / flexibility profile of the catheter? In order of importance:

- Mostly the polymer jacket (durometer and extrusion process)
- Braid density also plays a role to some degree
- Inner liner durometer and thickness (slight impact)



# CEREBASE DA Messaging

## Go DISTAL...

More Trackability*

| Design Feature | Clinical Benefit |
|---|---|
| • DEX tip (short, flexible and soft) | • Facilitates tight turns for trackability |
| • Smooth Transition Zones | • Pushability and control |
| • Soft, Compliant and Rounded Tip | • Atraumatic vessel wall interaction |
| • Excellent Kink Resistance | • Maintains catheter lumen |

More Support*

| Design Feature | Clinical Benefit |
|---|---|
| • Distal tracking | • Geometric anchoring in various bends for more support |
| • Proximal shaft stiffness | • Arch support |

*More trackability and more support than NeuronMax™, Infinity™, Shuttle™, Fubuki™, Ballast™

Sources:
1. Competitive Test Report 103618595, April 2020
2. Competitive Test Report 10364599, April 2020