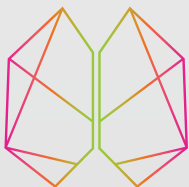




SHAPE MATTERS



CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

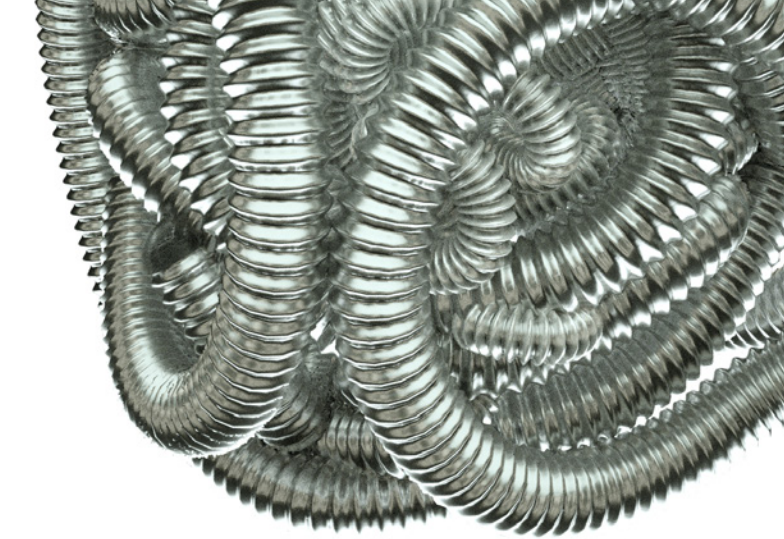
CERENOVUS
SPECTRA™
family of coils



FEATURES

MICROCOIL DELIVERY SYSTEM

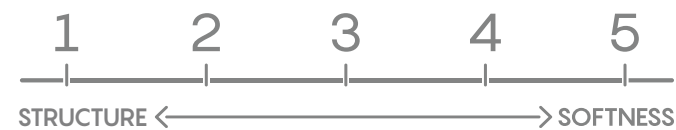
STABLE DEPLOYMENT



EASE OF USE

MICROCATHETER STABILITY

The CERENOVUS SPECTRA™ Family of Microcoils is ranked according to softness scale based on key parameters that influence spring constant. Coils are categorized on a scale of 1 to 5. Coils providing structure and stability (rated 1) and ultrasoft coils for dense packing (rated 5) create a full spectrum of softness.



Structure and Stability

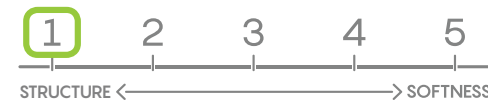
COIL FEATURES:

- Combines the **structure** of the MICRUSFRAME™ Coil shape technology with the **stability** of a framing coil.
- Predictable stable frame creates **open inner core** for concentric filling.
- Designed to provide robust scaffolding with **excellent neck coverage** which may reduce retreatment rates⁶.
- 0.0165" Microcatheter compatible; optimal performance with PROWLER SELECT® LP ES Microcatheter.

⁶ Castro, E. Interventional Radiology 2008; 14:375-384

MICRUSFRAME™ S 18

microcoil



Complex Stretch Resistant Coil

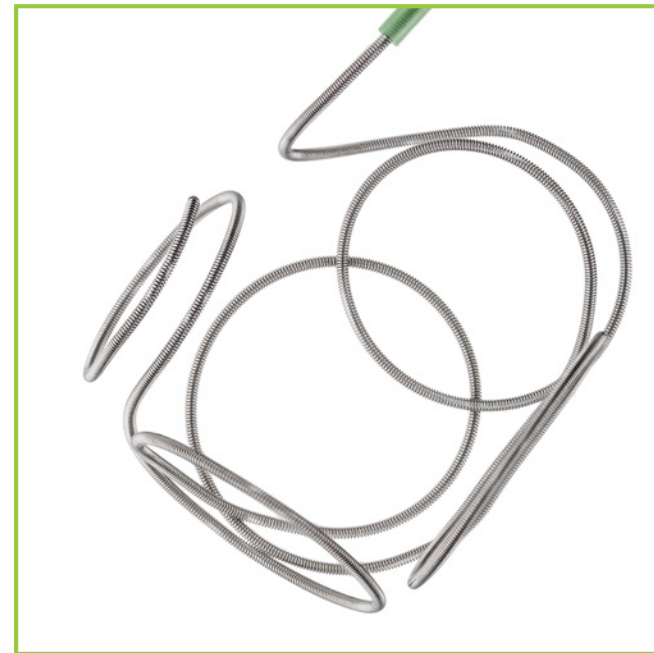
Catalog no.	Diameter	Length	Softness Scale
MFR182050	20mm	50cm	1
MFR181950	19mm	50cm	1
MFR181846	18mm	46cm	1
MFR181750	17mm	50cm	1
MFR181647	16mm	47cm	1
MFR181550	15mm	50cm	1
MFR181447	14mm	47cm	1
MFR181343	13mm	43cm	1
MFR181240	12mm	40cm	1
MFR181220	12mm	20.7cm	1
MFR181137	11mm	37cm	1
MFR181118	11mm	18.9cm	1
MFR181034	10mm	34cm	1
MFR181017	10mm	17.1cm	1
MFR180933	9mm	33cm	1
MFR180915	9mm	15.3cm	1
MFR180830	8mm	30cm	1
MFR180813	8mm	13.6cm	1
MFR180714	7mm	14.3cm	1
MFR180612	6mm	12.2cm	1
MFR180510	5mm	10cm	1

Extra Long Coils

COIL FEATURES:

Structure & Stability

- MICRUSFRAME™ S 18 Microcoil: Primary Outer Diameter = 0.015"
- Excellent choice for aneurysms where coil structure is critical



MICRUSFRAME™ S 10

microcoil



Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
MFR100829	8mm	29cm	2
MFR100816	8mm	16.1cm	2
MFR100730	7mm	30cm	2
MFR100713	7mm	13.9cm	2
MFR100626	6mm	26cm	2
MFR100611	6mm	11.9cm	2
MFR100517	5mm	17cm	2
MFR100509	5mm	9.7cm	2
MFR100412	4mm	11.5cm	2
MFR100407	4mm	7.5cm	2
MFR100356	3.5mm	6.6cm	3
MFR100305	3mm	5.4cm	3
MFR100253	2.5mm	3.3cm	3
MFR100202	2mm	2.5cm	3

Extra Long Coils

COIL FEATURES:

Structure & Stability

- MICRUSFRAME™ S 10 Microcoil: Primary Outer Diameter = 0.0105".
- Coil provides soft, supportive 3D structure for aneurysm framing.



GALAXY G3™
microcoil

Random Shape, Predictable Results

COIL FEATURES:

- GALAXY G3™ Coils have a complex shape and the unique **proprietary random loop design** which does not follow a predefined shape.
- GALAXY random loops pursue a **unique path** each time they are deployed.
- **Conforms** to the true aneurysm shape and seeks open space to **fill concentrically**, from the **periphery to the core**.
- **Tight Distal Loop (TDL) Technology:** the first loop of all GALAXY G3™ Coils 4mm in diameter and larger is one third smaller than the labeled coil diameter, and is designed to facilitate the anchoring of the coil in the aneurysm.
- **Random** complex coils are shown to have **better conformability** and provide excellent framework for **concentric filling**, dense packing, and lower retreatment rates vs. other existing helical and complex coils¹.
- **Shape integrity** with a variety of increasing coil softness.
- 0.0165" Microcatheter compatible; optimal performance with PROWLER SELECT® LP ES Microcatheter.

Random Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
GLY121230	12mm	30cm	3
GLY121030	10mm	30cm	3
GLY120925	9mm	25cm	3
GLY120824	8mm	24cm	3
GLY120815	8mm	15cm	3
GLY120721	7mm	21cm	3
GLY120715	7mm	15cm	3
GLY120620	6mm	20cm	3
GLY120615	6mm	15cm	3
GLY120610	6mm	10cm	3
GLY120515	5mm	15cm	3
GLY120510	5mm	10cm	3
GLY120412	4mm	12cm	3
GLY120410	4mm	10cm	3
GLY120407	4mm	7cm	3
GLY123509	3.5mm	9cm	3
GLY123575	3.5mm	7.5cm	3
GLY120308	3mm	8cm	3
GLY120306	3mm	6cm	3
GLY122505	2.5mm	5cm	3
GLY122535	2.5mm	3.5cm	3
GLY120202	2mm	2cm	3

COIL FEATURES:

Random Shape, Predictable Results

- GALAXY G3™ Microcoil: Primary Outer Diameter = 0.012".
- Optimal balance of softness and support.
- Superior volumetric filling versus 10-System coils¹.



¹ White, J.B, et. al AJNR Am J Neuroradiol. 2008 Aug;29(7):1242-6.

¹ Bendok, BR, Rahme R.J. Complex shaped detachable platinum coil system for the treatment of cerebral aneurysms: The Codman Trufill DCS and Trufill DCS Orbit Detachable Coil System COMPLEX Registry final results. J NeuroIntervent Surg 2011; DOI: 10.1136/neurointsurg-2011-010118.

Random Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softnes Scale
GLX120410	4mm	10cm	4
GLX120408	4mm	8cm	4
GLX120406	4mm	6cm	4
GLX123509	3.5mm	9cm	4
GLX123575	3.5mm	7.5cm	4
GLX123505	3.5mm	5cm	4
GLX120308	3mm	8cm	4
GLX120306	3mm	6cm	4
GLX120304	3mm	4cm	4
GLX122505	2.5mm	5cm	4
GLX122535	2.5mm	3.5cm	4
GLX122525	2.5mm	2.5cm	4
GLX120208 ¹	2mm	8cm	4
GLX120206 ¹	2mm	6cm	4
GLX120204 ¹	2mm	4cm	4
GLX120202	2mm	2cm	4
GLX120201	2mm	1.5cm	4

COIL FEATURES:

Random Shape,
Predictable Results

- GALAXY G3™ XSFT Microcoil:
Primary Outer Diameter = 0.012".
- Ultra thin coil wire provides enhanced softness with maintaining high packing volume.



¹ XTRASOFT 2X4, 2X6 and 2X8 coils feature a helical shape

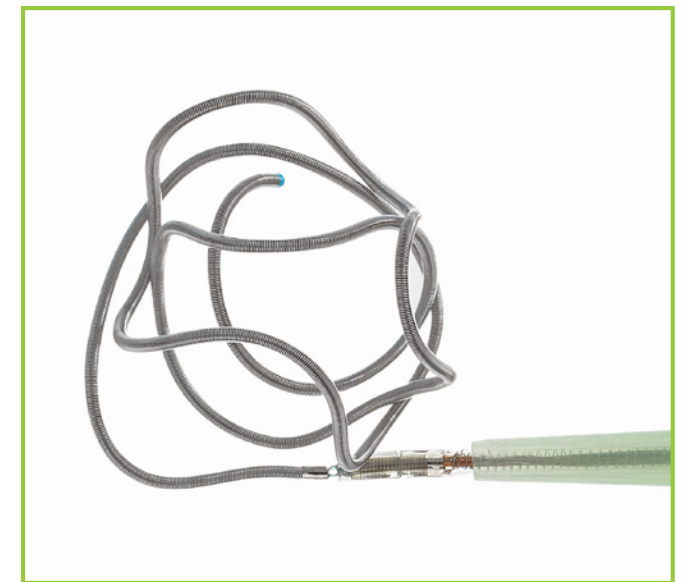
Random Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
GLM930080	3mm	8cm	5
GLM930060	3mm	6cm	5
GLM930040	3mm	4cm	5
GLM925055	2.5mm	5.5cm	5
GLM925045	2.5mm	4.5cm	5
GLM925035	2.5mm	3.5cm	5
GLM920060	2mm	6cm	5
GLM920040	2mm	4cm	5
GLM920030	2mm	3cm	5
GLM915040	1.5mm	4cm	5
GLM915030	1.5mm	3cm	5
GLM915025	1.5mm	2.5cm	5
GLM915020	1.5mm	2cm	5
GLM910040	1mm	4cm	5
GLM910030	1mm	3cm	5
GLM910025	1mm	2.5cm	5
GLM910020	1mm	2cm	5
GLM910015	1mm	1.5cm	5
GLM910010	1mm	1cm	5

COIL FEATURES:

Random Shape,
Predictable Results

- GALAXY G3™ MINI Microcoil:
Primary Outer Diameter = 0.009"
- Our softest coil in the SPECTRA portfolio made with our smallest coil wire.
- Excellent for addressing remaining spaces within the coil mass.
- Comprehensive offering of random complex coils.
- Proprietary stretch resistance technology minimizes impact to shape while offering the security of stretch resistance.



ACCESSORIES

ENPOWER®

detachment control box

Detachment control system

Catalog no.	Description
DCB2000500	ENPOWER® DCB 2
ECB00018200	ENPOWER® control cable
CCB00015700	Connecting cable

Used with:

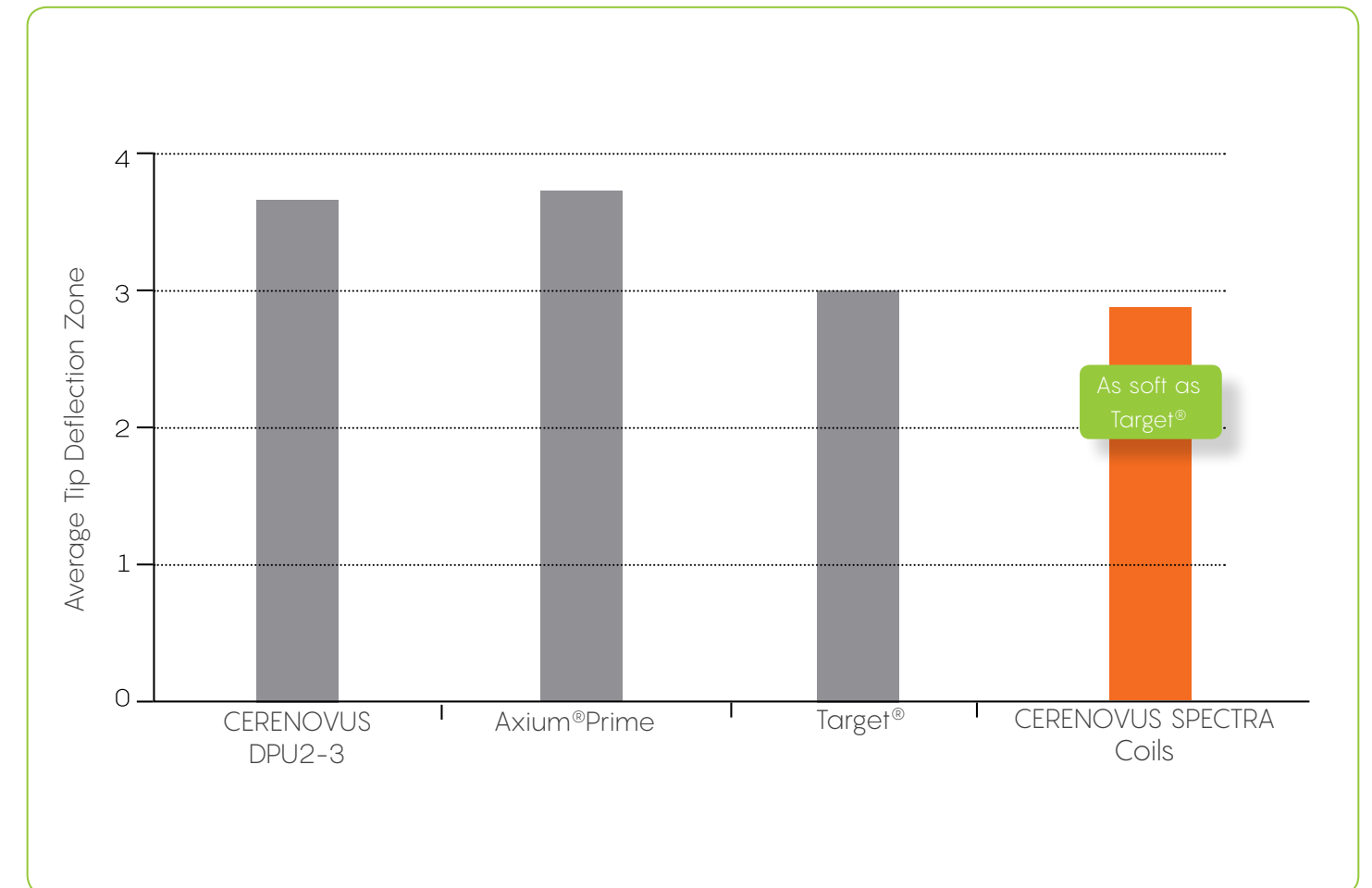
- MICRUSFRAME™ S Microcoil
- GALAXY G3™ Microcoil
- GALAXY G3™ XSFT Microcoil
- GALAXY G3™ MINI Microcoil



CERENOVUS
SPECTRA™
family of coils

Stable Deployment

Microcatheter Tip Stability Test¹:

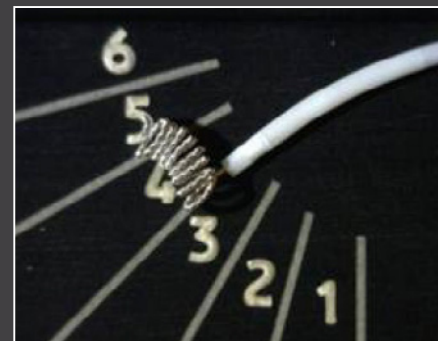


¹ ADAPTIV Report: 103225336, Codman DPU2, Axiom Prime, Target n=3, CERENOVUS SPECTRA™ Coils n=10

Stable Deployment

The CERENOVUS SPECTRA™ Microcoil Delivery System provides:

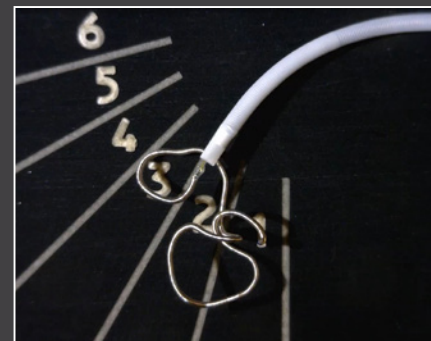
- ✓ Reduced Microcatheter Tip Deflection.
- ✓ Improved Detachment Reliability².



DELTAPLUSH® (DPU2-3)
MicroCoil 1.5 mm x 3 cm



SPECTRA DELTAXSFT
Microcoil 1.5 mm x 3 cm



Target® Nano™
1.5 mm x 3 cm

Stable Deployment

Articulating Junction

CERENOVUS SPECTRA™ Microcoils feature an articulating detachment junction. This unique feature enables precise filling and finishing in tightly packed spaces.



² CERENOVUS in house testing report 103216000.

Stable Deployment

Innovation with Results:

In competitive testing, our CERENOVUS SPECTRA™ Microcoil Delivery System was found to be¹:

- ✓ ... softer than the current system and Axium™ Prime
- ✓ ... as soft as Target®
- ✓ ... more deliverable than Target®
- ✓ ... more deliverable than V-Trak® Advanced
- ✓ ... more reliable detachment when compared to the current system

45%² Reduction in force on the MC tip

1.9x³ More peak force to deliver a Target® coil

Softer than current generation and Axium® Prime

Ease of Use

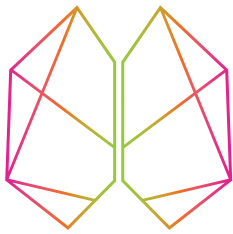
Highly - Visible Fluoro Markers with Tactile Response for Greater Control



¹ ADAPTIV Report: 103225336, Codman DPU2, Axium Prime, Target n=3, CERENOVUS SPECTRA™ Coils n=10.

² Data memo calculation based on ADAPTIV reports: 103216002, 103207116
The 45% was calculated from Tip Deflection Force Data collected utilizing an Instron.

³ ADAPTIV Reports: 103226869, 103163208; n=3; Benchtop testing.



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