

PAJUNK®



REGIONAL ANAESTHESIA
& PAIN MANAGEMENT

Regional Anaesthesia *Product Catalogue*



1ST GENERATION

MADE IN GERMANY 

PIONEER OF SPINAL ANAESTHESIA **THE SPROTTE®**



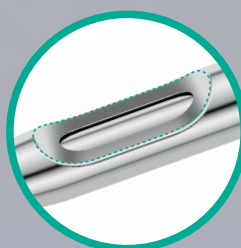
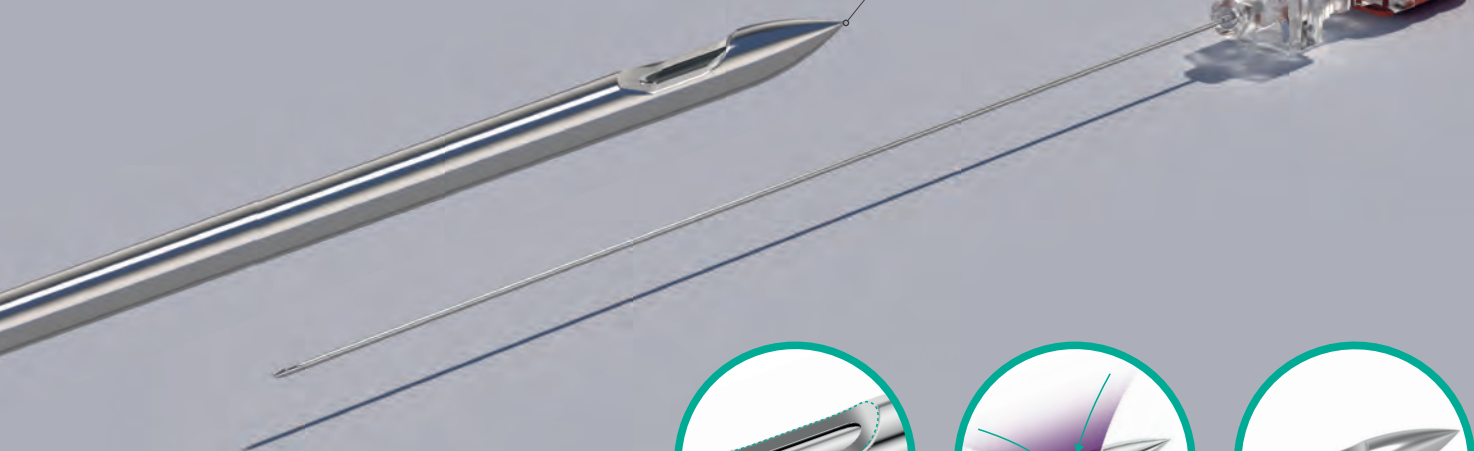
First Atraumatic Needle – 1979

Sprotte

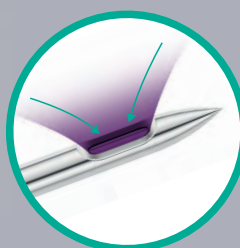
- The **ogive shaped tip** significantly reduces trauma to the dura mater and minimises the risk of PDPH¹
- Unobstructed backflow and quicker CSF flashback²
- Lateral Eye with burr-free, rounded edges optimises gliding properties and minimises chance of tissue coring and carry-over into the subarachnoid space
- Precision-ground metal stylet closes lateral eye precisely to minimise chance of tissue coring³



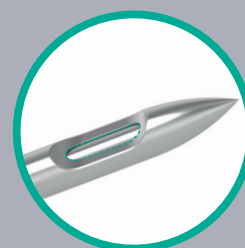
Atraumatic Tip Design



Lateral Eye



Optimal Lateral Eye Size
and Placement



Precision-Ground Metal
Stylet

¹ Cesarini, M. et al. Sprotte needle for intrathecal anaesthesia for Caesarean section: incidence of postdural puncture headache, *Anaesthesia* 1990; 45: 646–658

² Saenghirunvattana R. et al. A comparison study between newly-designed pencil-point and cutting needles in spinal anesthesia, *J. Med. Assoc. Thai*. 2008; 91 (Suppl 1): S156–161

³ Armon C., Evans R. W. Addendum to assessment: Prevention of postlumbal puncture headaches Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology, *Neurology*, 2005; 65; 510

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Spinal Anaesthesia

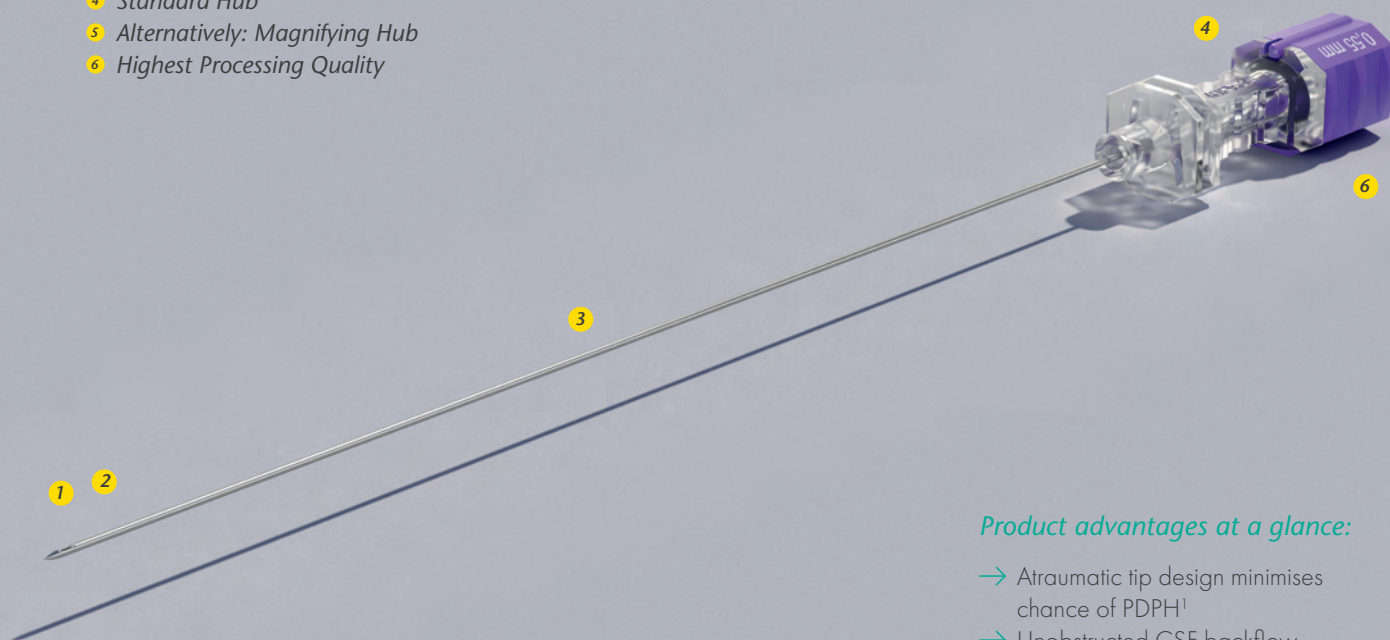
*Needles and Catheters for Atraumatic
Spinal Anaesthesia*



SPROTTE®

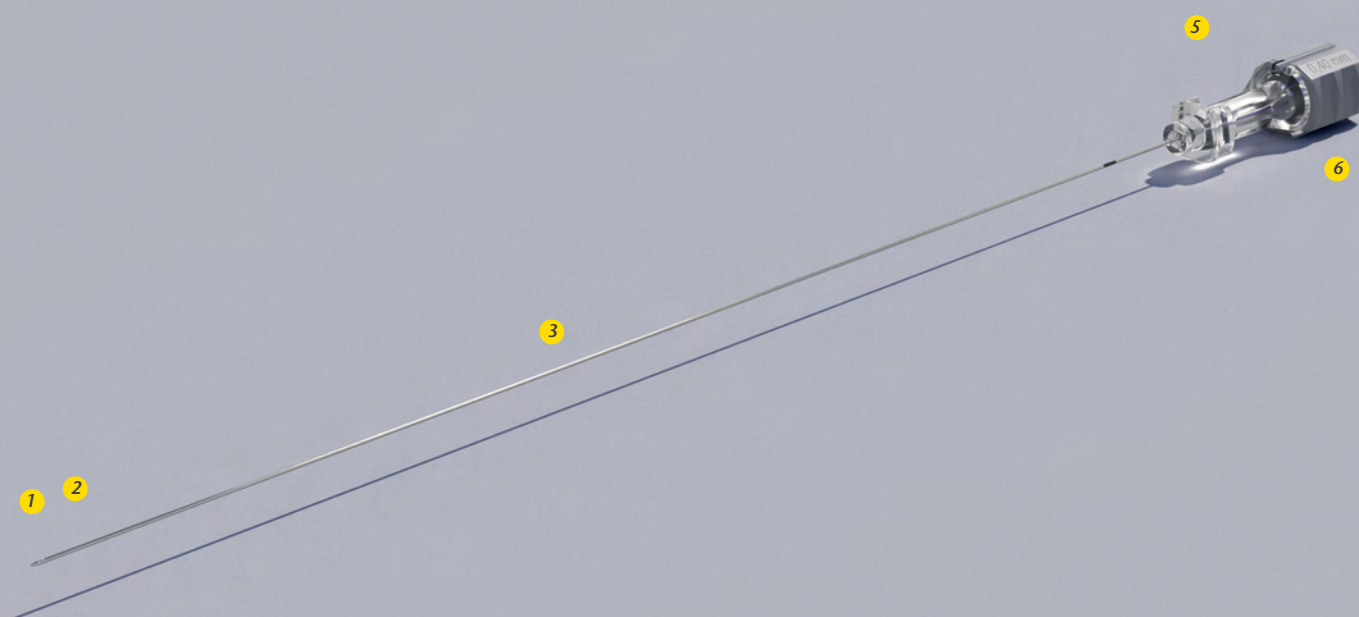
Needles for Atraumatic Spinal Anaesthesia with Standard Hub or Magnifying Hub

- 1 Atraumatic Tip Design
- 2 Lateral Eye
- 3 Precision-ground Metal Stylet
- 4 Standard Hub
- 5 Alternatively: Magnifying Hub
- 6 Highest Processing Quality



Product advantages at a glance:

- Atraumatic tip design minimises chance of PDPH¹
- Unobstructed CSF backflow
- Smooth gliding properties and improved tactile feedback



¹ Cesarini, M. et al. Sprotte needle for intrathecal anaesthesia for Caesarean section: incidence of postdural puncture headache, *Anaesthesia* 1990; 45: 646–658

Sprotte Needles with Standard Hub / Magnifying Hub

Description	Introducer	Item no. Standard hub	Item no. Magnifying hub	NRFit® Item no. Magnifying hub	NRFit Sets* Item no. Magnifying hub	PU
• 27G x 25 mm (1")			101151-27A			25
• 27G x 35 mm (1 1/3")			111151-27A			25
27G x 70 mm (2 3/4")	30 mm (1 1/5")		121151-27B			25
27G x 90 mm (3 1/2")	30 mm (1 1/5")		121151-27A	021163-27A	021166-27A	25
27G x 90 mm (3 1/2")	40 mm (1 3/5")			211163-27A	211166-27A	25
27G x 103 mm (4")	40 mm (1 3/5")		141151-27A	041163-27A	041166-27A	25
27G x 123 mm (4 4/5")			231151-27A			10
27G x 120 mm (4 3/4")				231163-27A		10
27G x 120 mm (4 3/4")	40 mm (1 3/5")		151151-27A	031163-27A	031166-27A	10
• 25G x 35 mm (1 1/3")		001151-29E		001163-29E	001166-29E	25
25G x 70 mm (2 3/4")	30 mm (1 1/5")	021151-29B				25
25G x 90 mm (3 1/2")		501151-29A		501163-29A	501166-29A	25
25G x 90 mm (3 1/2")	30 mm (1 1/5")	021151-29A	511151-29A	021163-29A	021166-29A	25
25G x 90 mm (3 1/2")	40 mm (1 3/5")			211163-29A	211166-29A	25
25G x 103 mm (4")	40 mm (1 3/5")	041151-29A	161151-29A	041163-29A	041166-29A	25
25G x 120 mm (4 3/4")		031151-29A		031163-29A	031166-29A	10
25G x 120 mm (4 3/4")	40 mm (1 3/5")	051151-29A	171151-29A	051163-29A	051166-29A	10
25G x 123 mm (4 4/5")		151151-29A				10
25G x 150 mm (6")				261163-29A		10
25G x 150 mm (6")	40 mm (1 3/5")	061151-29A			061166-29A	10
• 24G x 25 mm (1")		001151-30D		001163-30D	001166-30D	25
• 24G x 35 mm (1 1/3")		001151-30E		001163-30E	001166-30E	25
24G x 70 mm (2 3/4")		001151-30B			001166-30B	25
24G x 70 mm (2 3/4")	30 mm (1 1/5")	021151-30B		021163-30B		10
24G x 90 mm (3 1/2")		001151-30A		001163-30A	001166-30A	25
24G x 90 mm (3 1/2")	30 mm (1 1/5")	121151-30A		121163-30A	121166-30A	25
24G x 103 mm (4")	40 mm (1 3/5")	021151-30A		021163-30A	521166-30A	25
24G x 120 mm (4 3/4")		031151-30A				10
24G x 120 mm (4 3/4")	40 mm (1 3/5")	041151-30A		041163-30A	041166-30A	10
24G x 150 mm (6")		141151-30A				10
24G x 150 mm (6")	40 mm (1 3/5")	131151-30A		131163-30A	131166-30A	10
24G x 200 mm (8")	40 mm (1 3/5")	0051151-30				10
• 22G x 50 mm (2")		071151-30C		071163-30C	071166-30C	25
22G x 70 mm (2 3/4")		051151-30C				25
22G x 70 mm (2 3/4")	30 mm (1 1/5")	051151-30B				25
22G x 90 mm (3 1/2")		001151-30C		001163-30C		25
22G x 90 mm (3 1/2")	30 mm (1 1/5")	021151-30C		021163-30C	021166-30C	25
22G x 103 mm (4")		521151-30C		521163-30C		25
22G x 103 mm (4")	40 mm (1 3/5")	221151-30C		221163-30C	221166-30C	25
22G x 120 mm (4 3/4")				031163-30C		10
22G x 120 mm (4 3/4")	40 mm (1 3/5")	131151-30C		131163-30C		10
22G x 150 mm (6")		041151-30C				10
22G x 150 mm (6")	40 mm (1 3/5")	141151-30C		141163-30C	141166-30C	10

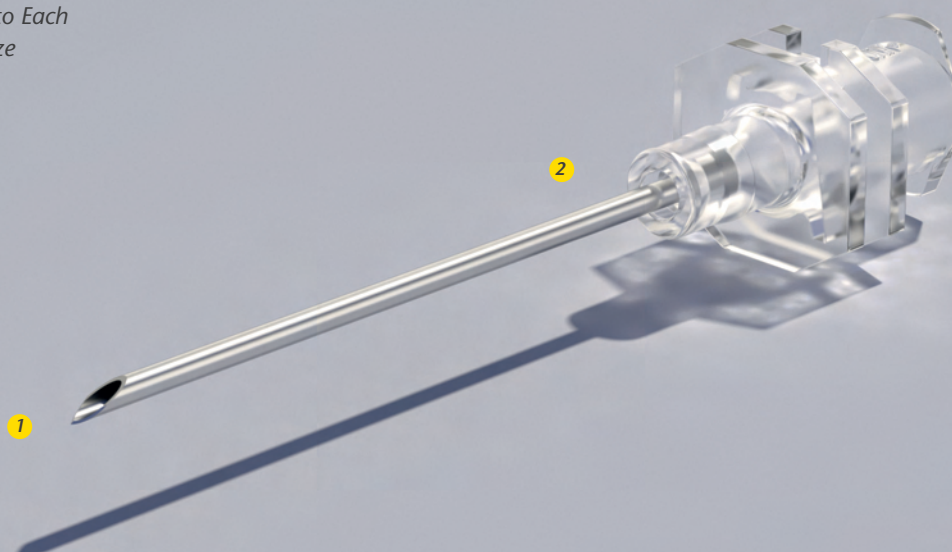
• Small patient product

*NRFit Sets include a Filter Needle NRFit 18G x 50 mm (2"), Syringe NRFit 3 ml Slip, Syringe NRFit 5 ml Slip

SPROTTE® Introducer

Matching Introducer for
Sprotte Spinal Needles

- 1 Facet Tip
- 2 Match Perfectly to Each
Spinal Needle Size



Product advantages at a glance:

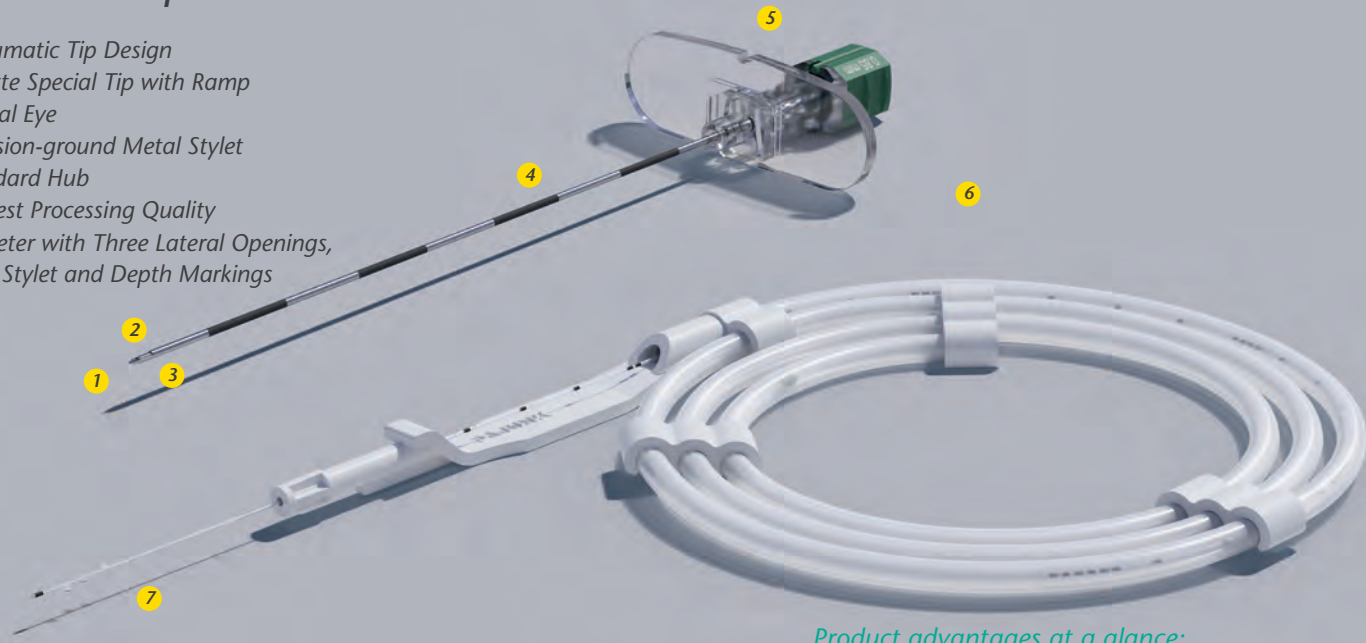
- Minimal reduction of useable working length of the spinal needle
- Funnel-shaped hub to reduce chance of spinal needle tip damage during insertion

Description	Sprotte Size	Item no.	NRFit® Item no.	PU
22G x 30 mm (0.70 mm x 1 1/5")	27G	071151-30L		25
21G x 30 mm (0.80 mm x 1 1/5")	24G, 25G	021151-30L	021163-30L	25
21G x 40 mm (0.80 mm x 1 3/5")	24G, 25G	021151-30M		25
20G x 30 mm (1.00 mm x 1 1/5")	22G	001151-30L	001163-30L	25
20G x 40 mm (1.00 mm x 1 3/5")	22G	001151-30M	001163-30M	25
19G x 30 mm (1.10 mm x 1 1/5")	21G	051151-30L		25
17G x 30 mm (1.30 mm x 1 1/5")	19G	091151-30L		25

IntraLong

Catheter Set for Continuous Spinal Anaesthesia

- 1 Atraumatic Tip Design
- 2 Sprotte Special Tip with Ramp
- 3 Lateral Eye
- 4 Precision-ground Metal Stylet
- 5 Standard Hub
- 6 Highest Processing Quality
- 7 Catheter with Three Lateral Openings, Steel Stylet and Depth Markings



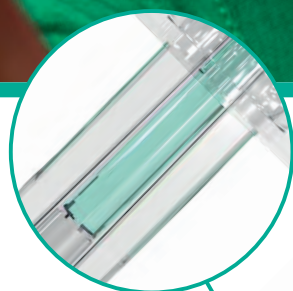
Product advantages at a glance:

- Atraumatic tip design minimises chance of PDPH¹
- Unobstructed CSF backflow
- Smooth gliding properties and improved tactile feedback
- Improved flow of anaesthetic

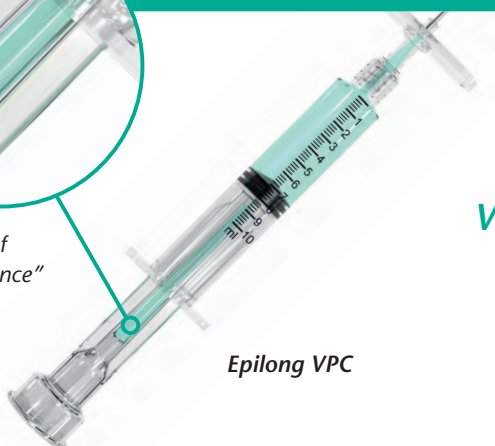
Description	Catheter	Item no.	NRFit Item no.	PU	Filter	Clamping Adapter	1ml Luer syringe
22G x 90 mm (3 1/2")	27G x 90 cm (35")	21151-30CS	22161-30CS	10	•	•	
22G x 90 mm (3 1/2")	27G x 90 cm (35")	31151-30CS	31151-30CS	10	•	•	•
22G x 103 mm (4")	27G x 90 cm (35")	21151-30CL		10	•	•	
21G x 90 mm (3 1/2")	25G x 90 cm (35")	31151-30GS	22161-30GS	10	•	•	•

1. Cesarini, M. et al. Sprotte needle for intrathecal anaesthesia for Caesarean section: incidence of postdural puncture headache, *Anaesthesia* 1990; 45: 646–658

We make the invisible visible



Visualization of
"Loss of Resistance"



EpiLong VPC

WHAT IS THE EPILONG VISUAL PRESSURE CONTROL (VPC) SYRINGE?

The VPC syringe offers a reliable alternative to the conventional tactile Loss of Resistance technique by **visually indicating** even the smallest pressure changes when entering the Epidural Space.

To learn more about the VPC syringe, visit
www.EpiLong-VPC.com



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PAJUNK®

Epidural Anaesthesia

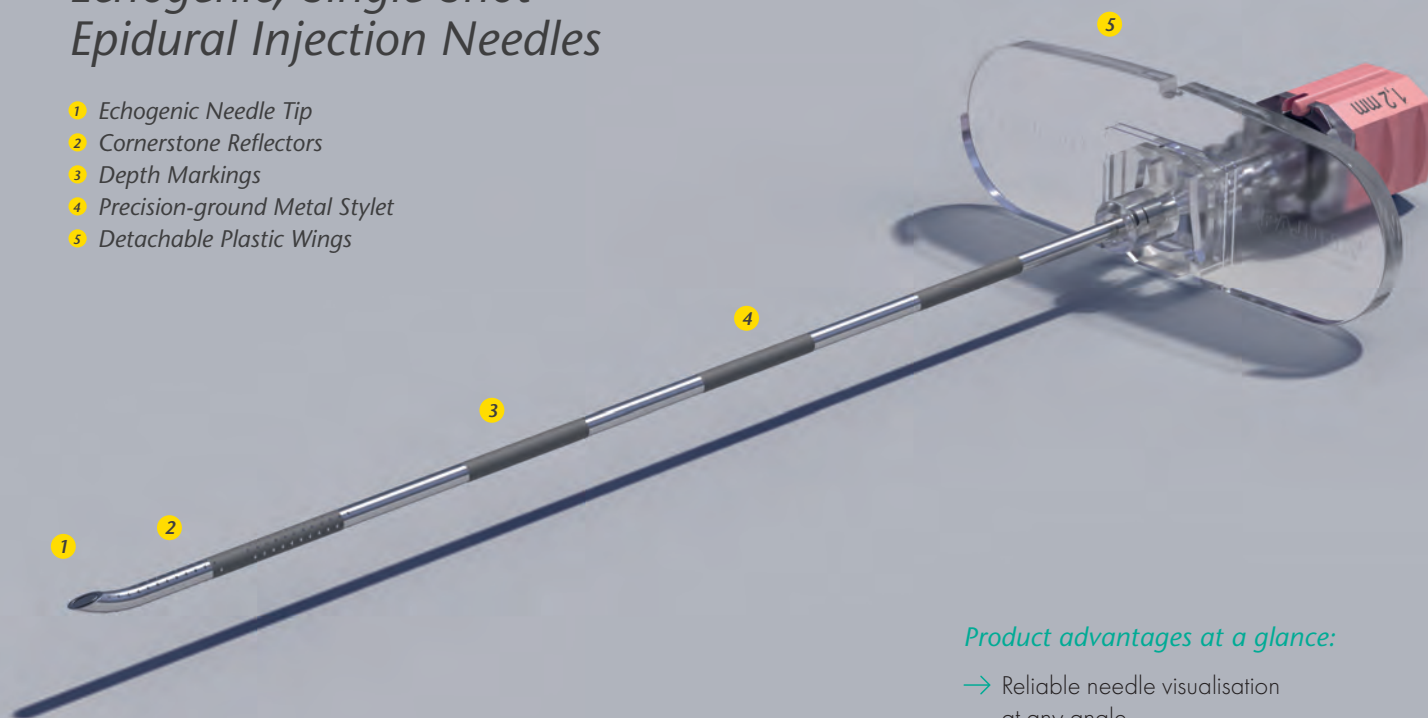
*Wide Range of
Needles and Catheter Systems*



TuohySono

Echogenic, Single Shot Epidural Injection Needles

- 1 Echogenic Needle Tip
- 2 Cornerstone Reflectors
- 3 Depth Markings
- 4 Precision-ground Metal Stylet
- 5 Detachable Plastic Wings



Product advantages at a glance:

- Reliable needle visualisation at any angle
- Optimised ultrasound visibility of needle shaft
- Minimised tissue coring
- Smooth gliding properties
- Optimum handling for different gripping techniques

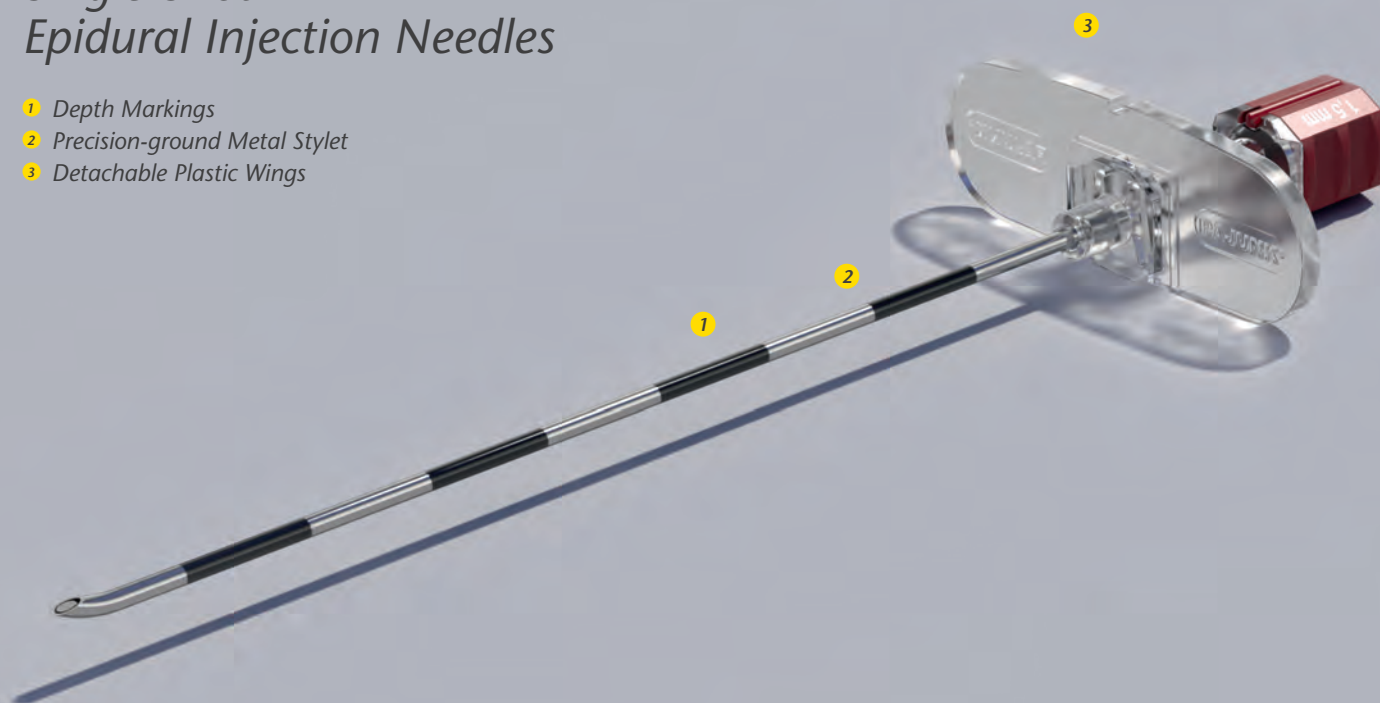
Description	Item no.	PU
• 18G x 50 mm (2")	1085-4K050	25
118G x 90 mm (3 1/2")	1085-4K090	25
18G x 120 mm (4 3/4")	1085-4K120	10
17G x 90 mm (3 1/2")	1085-4M090	25

- Small patient product

Tuohy

Single Shot Epidural Injection Needles

- 1 Depth Markings
- 2 Precision-ground Metal Stylet
- 3 Detachable Plastic Wings



Product advantages at a glance:

- Minimised tissue coring
- Smooth gliding properties
- Optimum handling for different gripping techniques

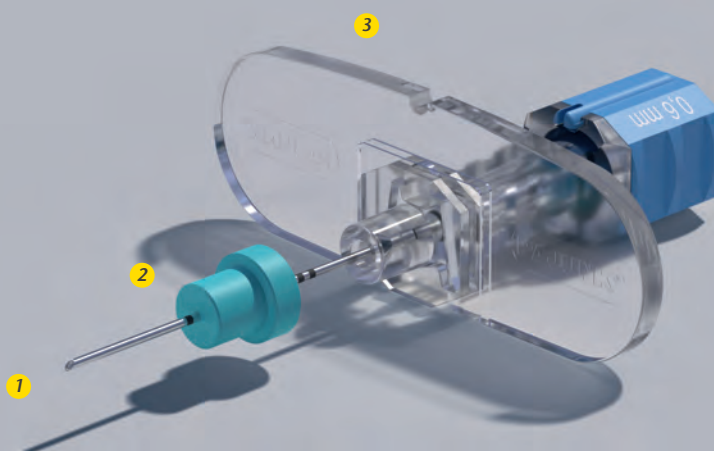
Description	Item no. Metal stylet	Item no. Plastic stylet	NRFit® Item no. Plastic stylet	PU
• 19G x 50 mm (2")	1150-4I050			25
19G x 80 mm (3 1/4")	1150-4I080			25
19G x 90 mm (3 1/2")	1150-4I090	1150-6I091		25
• 18G x 50 mm (2")	1150-4K050			25
18G x 80 mm (3 1/4")	1150-4K080	1150-6K081	1166-6K081	25
18G x 90 mm (3 1/2")	1150-4K090	1150-6K091	1166-6K091	25
18G x 120 mm (4 3/4")	1150-4K120			10
18G x 150 mm (6")	1150-4K150			10
17G x 80 mm (3 1/4")	1150-4M080			25
17G x 90 mm (3 1/2")	1150-4M090	1150-6M091	1166-6M091	25
17G x 120 mm (4 3/4")	1150-4M120			10
17G x 150 mm (6")	1150-4M150			10
16G x 80 mm (3 1/4")	1150-4O080	1150-6O081	1166-6O081	25
16G x 90 mm (3 1/2")	1150-4O090	1150-6O091	1166-6O091	25
16G x 120 mm (4 3/4")	1150-4O120			10

- Small patient product

Caudal

Injection Needles with Crawford Bevel

- 1 Crawford Tip
- 2 Depth Stop and Depth Markings
- 3 Detachable Plastic Wings



Product advantages at a glance:

- Easy identification of puncture depth
- Optimum handling for different gripping techniques

Description	Item no.	NRFit® Item no.	NRFit Sets* Item no.	PU
• 25G x 25 mm (1")	1149-12C025	1163-12C025	1166-12C025	25
• 25G x 50 mm (2")	1149-12C050	1163-12C050	1166-12C050	25
• 23G x 25 mm (1")	1149-12D025			25
• 22G x 40 mm (1 3/5")	1149-12E040	1163-12E040	1166-12E040	25
22G x 60 mm (2 1/4")	1149-12E060	1163-12E060	1166-12E060	25
22G x 80 mm (3 1/4")	1149-12E080	1163-12E080	1166-12E080	25

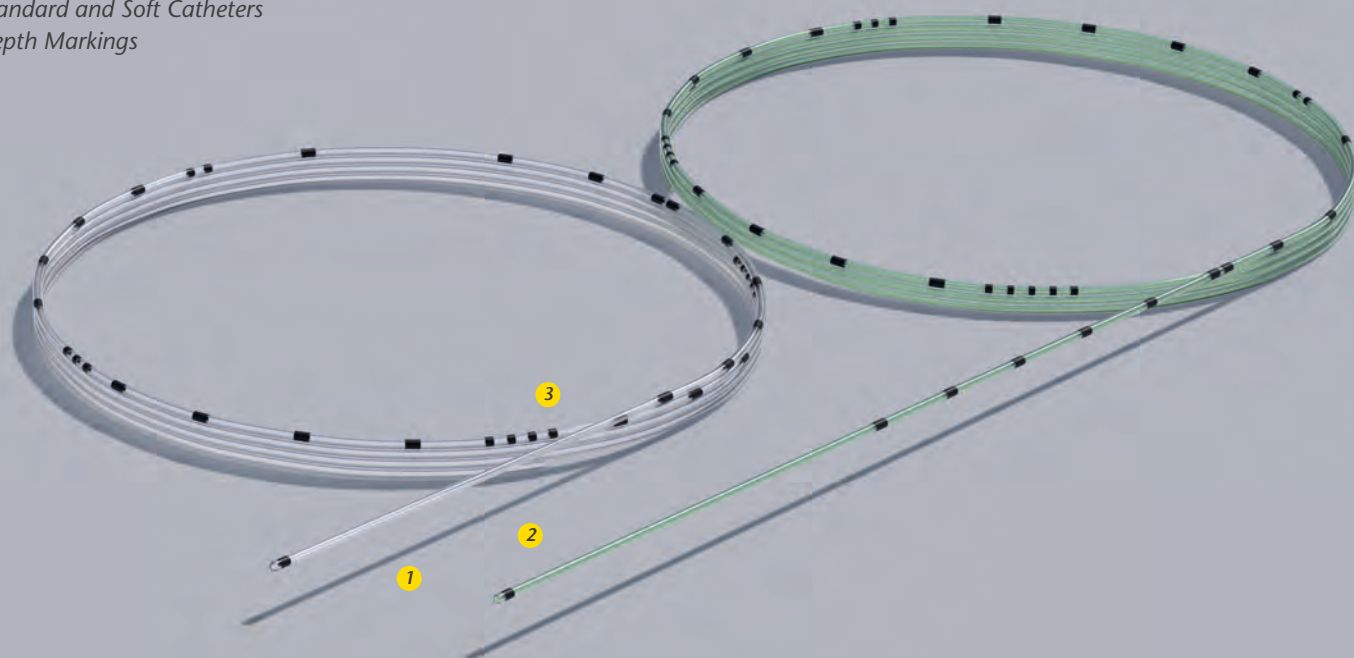
• Small patient product

*NRFit Sets include a Filter Needle NRFit 18G x 50 mm (2") , Syringe NRFit 10 ml Slip

EpiLong (Soft) Cath

Catheters for Epidural Anaesthesia

- 1 Open Tip or Lateral Openings
- 2 Standard and Soft Catheters
- 3 Depth Markings



Product advantages at a glance:

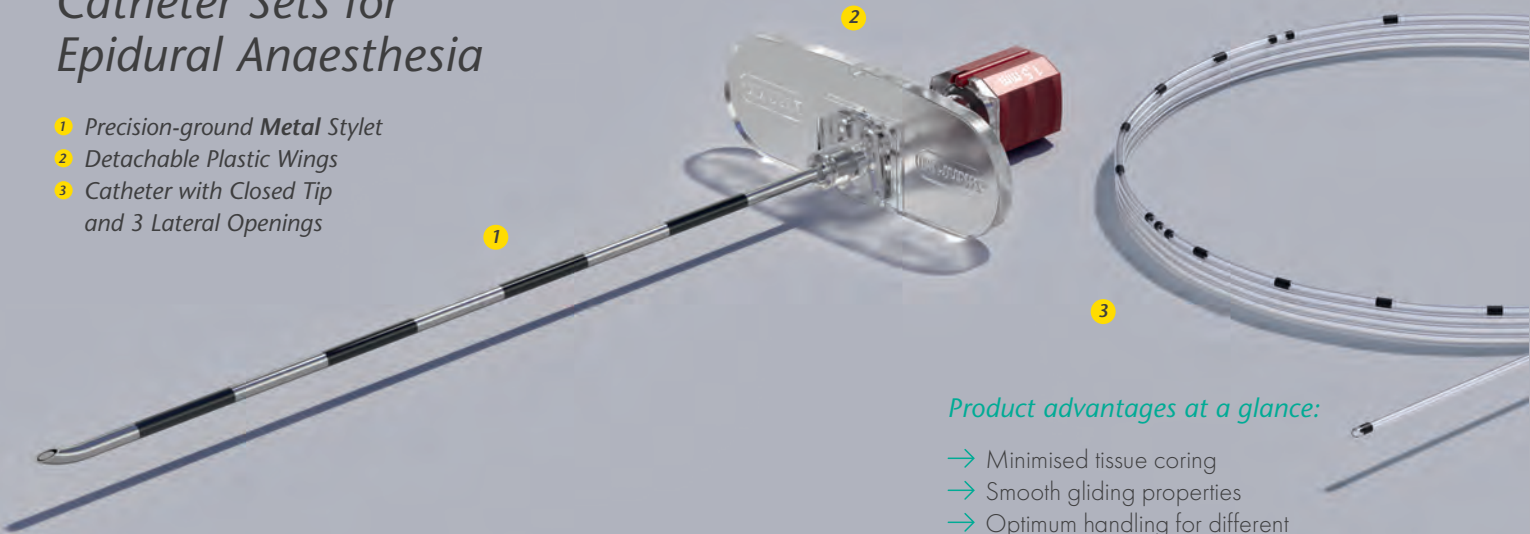
- Improved flow of anaesthetic
- Kink resistant (Soft Catheter)

Description	Closed/ Open Tip	Lateral openings	Item no.	NRFit Item no.	PU	Steel mandrin	Stainless steel helical coil	Clamping Adapter
20G x 90 cm (35")	closed	6	041151-37R	041163-37R	10	•	•	
19G x 90 cm (35")	closed	6	041151-37P		10		•	•
20G x 90 cm (35")	closed	3	001151-37C		10	•		•
20G x 90 cm (35")	closed	3	021151-37C	021163-37C	10			•
20G x 90 cm (35")	open		011151-37C		10	•		•
19G x 90 cm (35")	closed	3	001151-37A		10	•		•
19G x 90 cm (35")	closed	3	021151-37A	021163-37A	10			•
19G x 90 cm (35")	open		031151-37A		10			•

EpiLong I

Catheter Sets for Epidural Anaesthesia

- 1 Precision-ground **Metal** Stylet
- 2 Detachable Plastic Wings
- 3 Catheter with Closed Tip and 3 Lateral Openings



Product advantages at a glance:

- Minimised tissue coring
- Smooth gliding properties
- Optimum handling for different gripping techniques

Description	Catheter	Item no.	NRFit® Item no.	NRFit Sets* Item no.	PU	Filter	Clamping Adapter	LOR 10 ml
• 19G x 50 mm (2")	23G x 50 cm (20")	0131153-50	0131163-50		10	•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0431155-51	0431165-51	1432165-51	10	•	•	•
17G x 80 mm (3 1/4")	19G x 90 cm (35")	0431156-48			10	•	•	•
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0431155-48	0431165-48	1432165-48	10	•	•	•

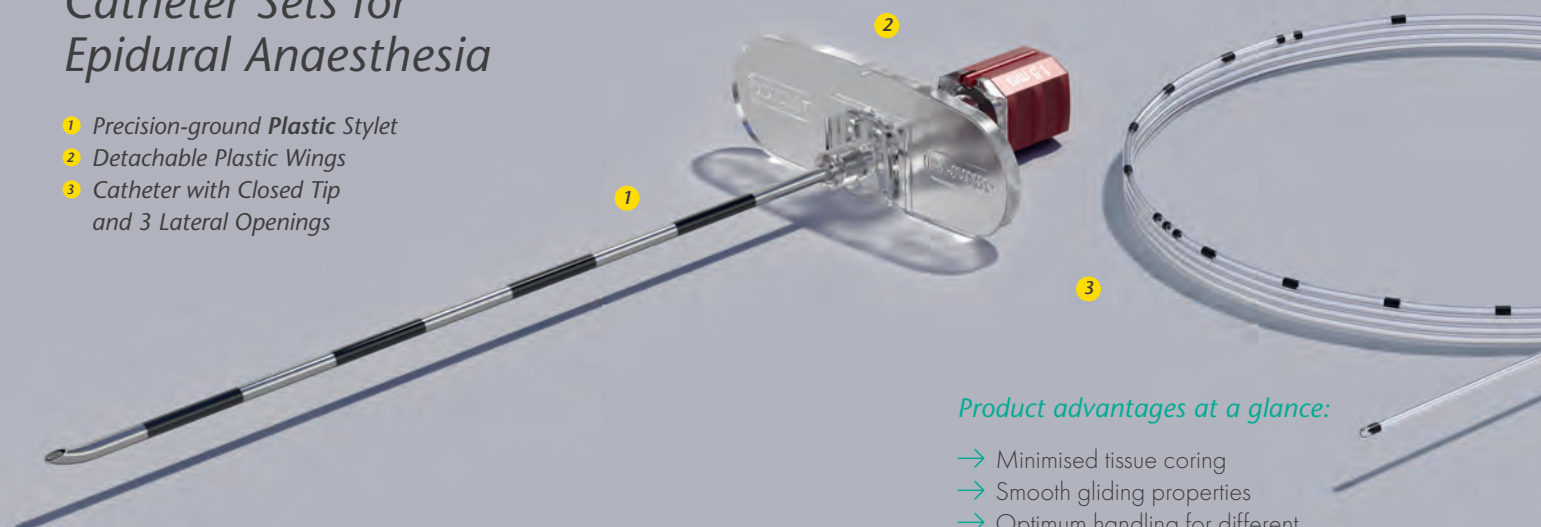
• Small patient product

*NRFit Sets include a Filter Needle NRFit 18G x 50 mm (2") , Syringe NRFit 5 ml Lock, Syringe NRFit 10 ml Lock

EpiLong Tuohy (VPC)

Catheter Sets for Epidural Anaesthesia

- 1 Precision-ground Plastic Stylet
- 2 Detachable Plastic Wings
- 3 Catheter with Closed Tip and 3 Lateral Openings



Product advantages at a glance:

- Minimised tissue coring
- Smooth gliding properties
- Optimum handling for different gripping techniques

EpiLong Tuohy Description	Catheter	Item no.	NRFit Item no.	NRFit Sets* Item no.	PU	FixoLong	FixoCath	Filter	Clamping Adaptor	LOR 10 ml
18G x 90 mm (3 1/2")	20G x 90 cm (35") ¹	0521152-51			10			•	•	
18G x 80 mm (3 1/4")	20G x 90 cm (35")	0331153-51	0331163-51	1332163-51	10			•	•	•
18G x 80 mm (3 1/4")	20G x 90 cm (35")	0531153-51			10	•		•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0331152-51	0331162-51	1332162-51	10			•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0331252-51			10		•	•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0321152-51			10			•	•	
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0311152-51			10				•	
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0531152-51			10	•		•	•	•
17G x 80 mm (3 1/4")	19G x 90 cm (35")	0331153-48	0331163-48	1332163-48	10			•	•	•
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0331152-48	0331162-48	1332162-48	10			•	•	•
16G x 80 mm (3 1/4")	19G x 90 cm (35")	0331153-49	0331163-49	1332163-49	10			•	•	•
16G x 90 mm (3 1/2")	19G x 90 cm (35")	0331152-49	0331152-49	1332162-49	10			•	•	•
16G x 90 mm (3 1/2")	19G x 90 cm (35")	0321152-49			10			•	•	

¹ Catheter with central opening

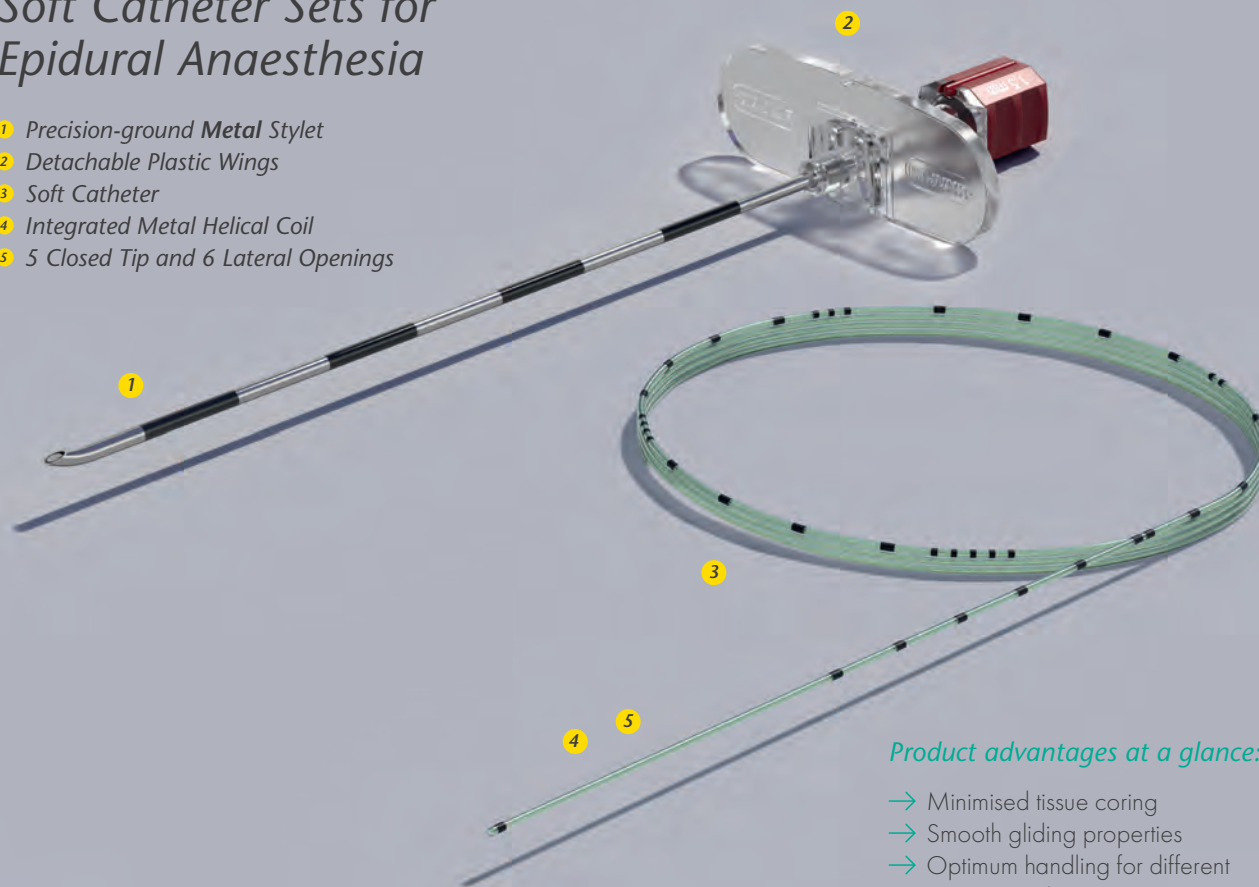
*NRFit Sets include a Filter Needle NRFit 18G x 50 mm (2"), Syringe NRFit 5 ml Lock, Syringe NRFit 10 ml Lock

EpiLong Tuohy VPC Description	Catheter	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adaptor	VPC 10ml
18G x 80 mm (3 1/4")	20G x 90 cm (35")	0341153-51		10		•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0341152-51		10		•	•	•
17G x 80 mm (3 1/4")	19G x 90 cm (35")	0341153-48		10		•	•	•
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0341152-48		10		•	•	•

EpiLong Soft (VPC)

Soft Catheter Sets for Epidural Anaesthesia

- 1 Precision-ground **Metal** Stylet
- 2 Detachable Plastic Wings
- 3 Soft Catheter
- 4 Integrated Metal Helical Coil
- 5 5 Closed Tip and 6 Lateral Openings



Product advantages at a glance:

- Minimised tissue coring
- Smooth gliding properties
- Optimum handling for different gripping techniques
- Kink resistant

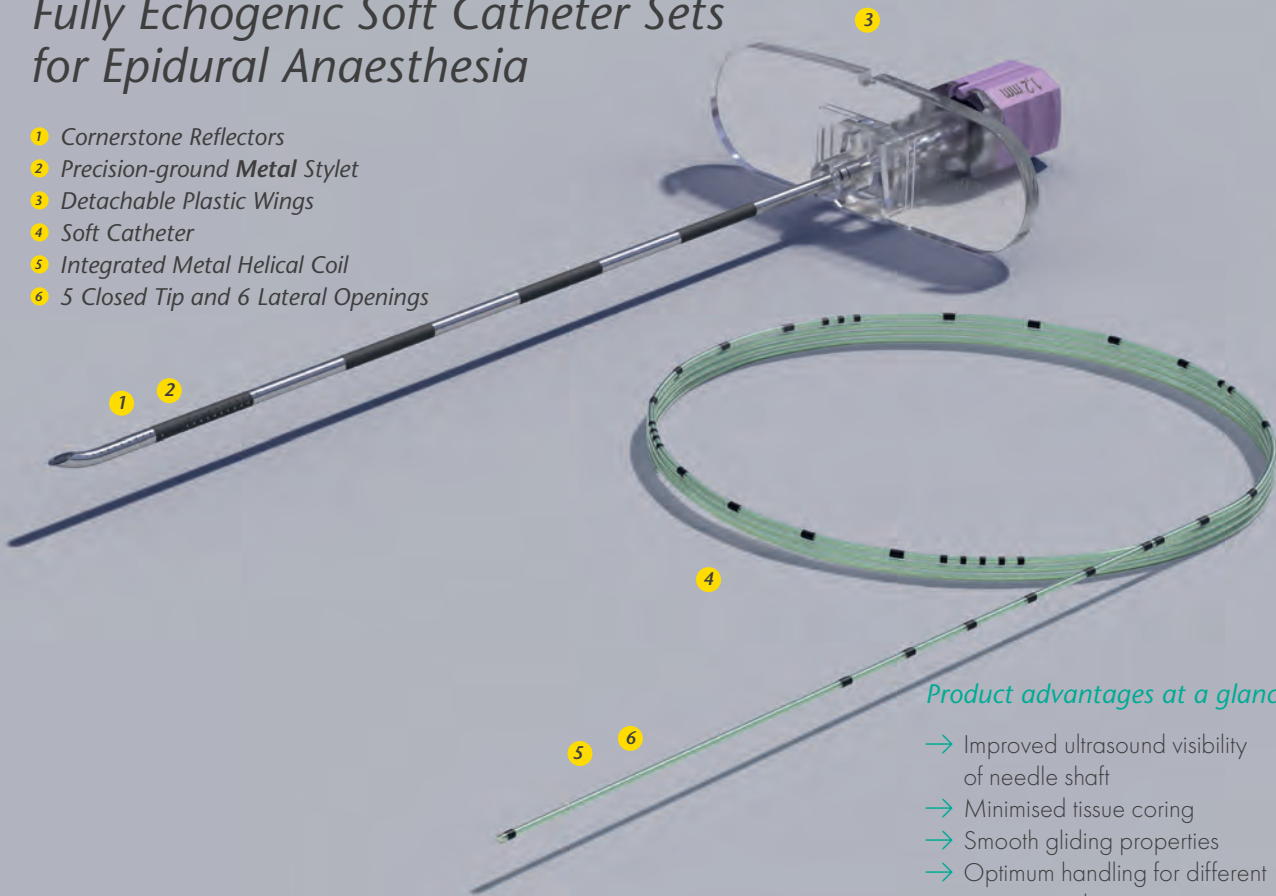
EpiLong Soft Description	Catheter	Item no.	NRFit® Item no.	NRFit Sets* Item no.	PU	FixoLong	Filter	Clamping Adapter	LOR 10 ml
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0431157-51		1432167-51	10	•	•	•	•
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0431157-48		1432167-48	10	•	•	•	•
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0421157-48			10	•	•	•	

*NRFit Sets include a Filter Needle NRFit 18G x 50 mm (2"), Syringe NRFit 5 ml Lock, Syringe NRFit 10 ml Lock

EpiLong Soft VPC Description	Catheter	Item no.	NRFit Item no.	NRFit Sets* Item no.	PU	FixoLong	Filter	Clamping Adapter	VPC 10 ml
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0441157-48			10	•	•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0441157-51			10	•	•	•	•

EpiLong Soft Sono

Fully Echogenic Soft Catheter Sets for Epidural Anaesthesia



Product advantages at a glance:

- Improved ultrasound visibility of needle shaft
- Minimised tissue coring
- Smooth gliding properties
- Optimum handling for different gripping techniques
- Kink resistant

EpiLong Soft Sono

Description	Catheter	Item no.	NRFit Item no.	NRFit Sets Item no.	PU	FixoLong	Filter	Clamping Adapter	LOR 10 ml
• 18G x 50 mm (2")	20G x 90 cm (35")	0631187-51			10	•	•	•	•
18G x 90 mm (3 1/2")	20G x 90 cm (35")	0431187-51			10	•	•	•	•
17G x 90 mm (3 1/2")	19G x 90 cm (35")	0431187-48			10	•	•	•	•

- Small patient product

EpiSpin Lock offers smooth and stable spinal puncture while minimizing post-spinal headache with the original SPROTTE® atraumatic needle.



➔ **Unique Locking System**
SPROTTE locks in place through the back-eye of the Tuohy, removing the need for a third hand

When Spinal Anesthesia is complete, EpiSpin Lock plates 90° and easily disconnects from the Tuohy preparation for Epidural Anesthesia

- ① Unique Locking System
- SPROTTE locks in place through the back-eye of the Tuohy, removing the need for a third hand
- When Spinal Anesthesia is complete, EpiSpin Lock rotates 90° and easily disconnects from the Tuohy in preparation for Epidural Anesthesia



Available in

ISO
Luer

ISO
NRfit™



2 Atraumatic
The active shaped tip significantly reduces the risk of PDPH.^{1,2}
The rounded edges of the lateral eye minimize trauma and provide excellent tactile feedback.
The ear, magnifying needle hub allows for visualization of CSF

- ## Atraumatic
- ② The ogive shaped tip significantly reduces the risk of PDPH.^{1,2}
 - The rounded edges of the lateral eye minimize trauma and provide excellent tactile feedback
 - Clear, magnifying needle hub allows for easy visualization of CSF
- J. Volpe M. C. Monette G. L. Sabin D. R. Kamen
S. H. Wang J. Wang J. Wang J. Wang J. Wang
J. Wang J. Wang J. Wang J. Wang J. Wang
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I. Valerio M. C., Almeida G. L., Saba D. P., Karamonah S., Finkelman J., Finkelman J., Finkelman J. A. (2000) *Journal of the American Academy of Child and Adolescent Psychiatry* 39: 1000-1005.

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Combined Spinal-Epidural Anaesthesia

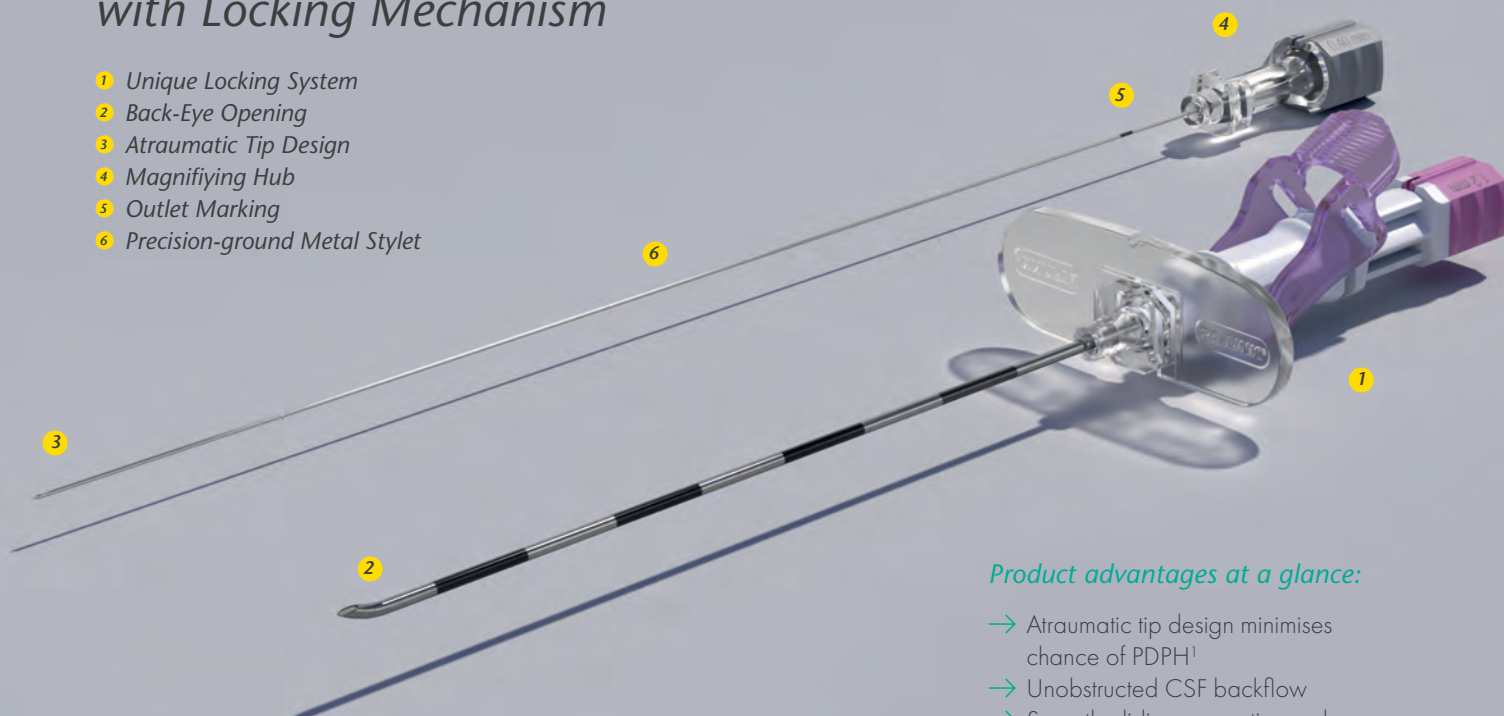
Unique Needle Systems for CSE



EpiSpin Lock Needles

Unique CSE Needle Systems
with Locking Mechanism

- 1 Unique Locking System
- 2 Back-Eye Opening
- 3 Atraumatic Tip Design
- 4 Magnifying Hub
- 5 Outlet Marking
- 6 Precision-ground Metal Stylet



Product advantages at a glance:

- Atraumatic tip design minimises chance of PDPH¹
- Unobstructed CSF backflow
- Smooth gliding properties and improved tactile feedback
- Minimised tissue coring
- Optimum handling for different gripping techniques
- Easily fixation of spinal needle

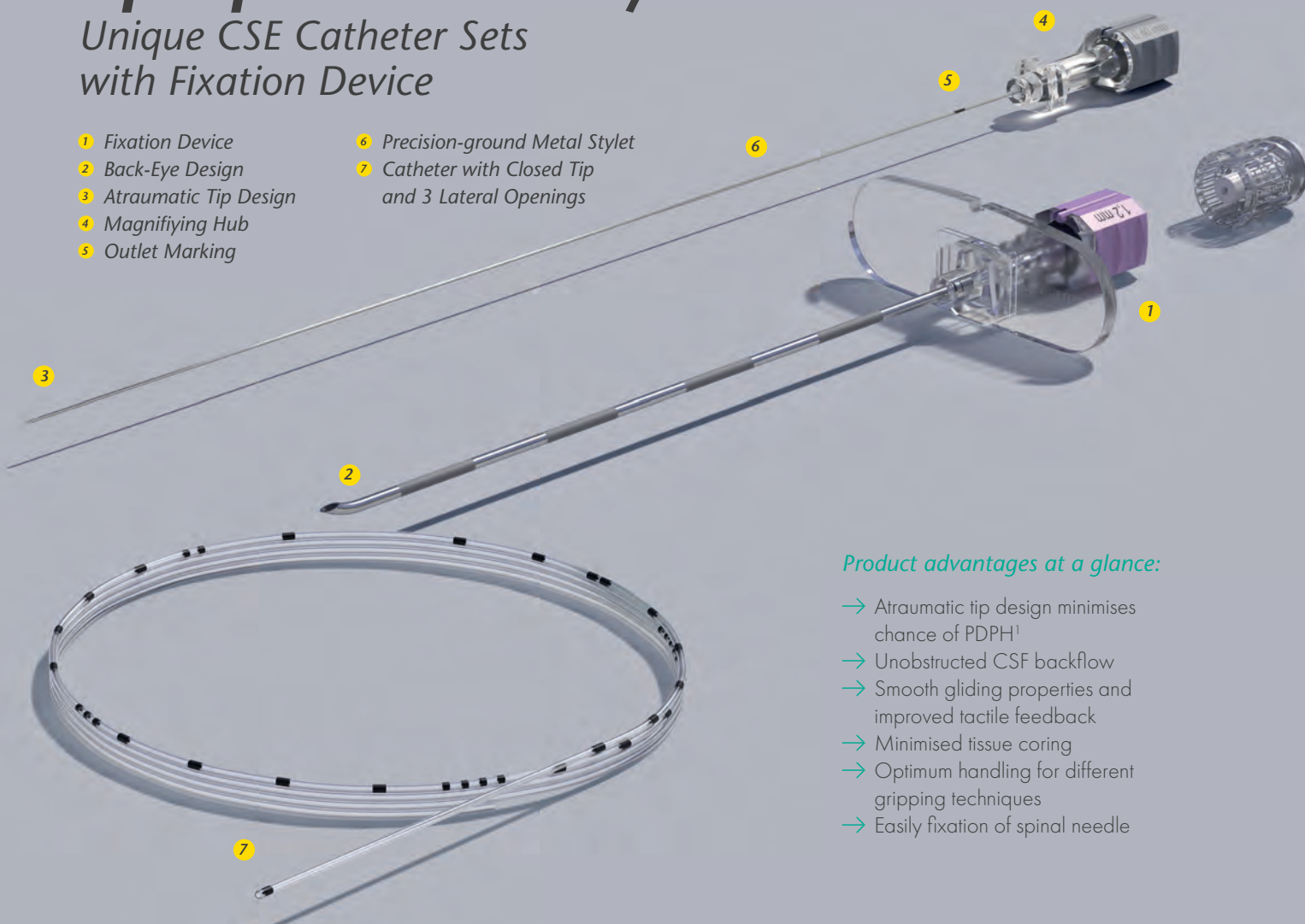
Description	SPROTTE®	Item no.	NRFit® Item no.	PU
18G x 90 mm (3 1/2")	27G	0011351-30		10
17G x 90 mm (3 1/2")	25G	0011351-20		10

Catheters see page 15

EpiSpin II Safety

Unique CSE Catheter Sets with Fixation Device

- 1 Fixation Device
- 2 Back-Eye Design
- 3 Atraumatic Tip Design
- 4 Magnifying Hub
- 5 Outlet Marking
- 6 Precision-ground Metal Stylet
- 7 Catheter with Closed Tip and 3 Lateral Openings



Product advantages at a glance:

- Atraumatic tip design minimises chance of PDPH¹
- Unobstructed CSF backflow
- Smooth gliding properties and improved tactile feedback
- Minimised tissue coring
- Optimum handling for different gripping techniques
- Easily fixation of spinal needle

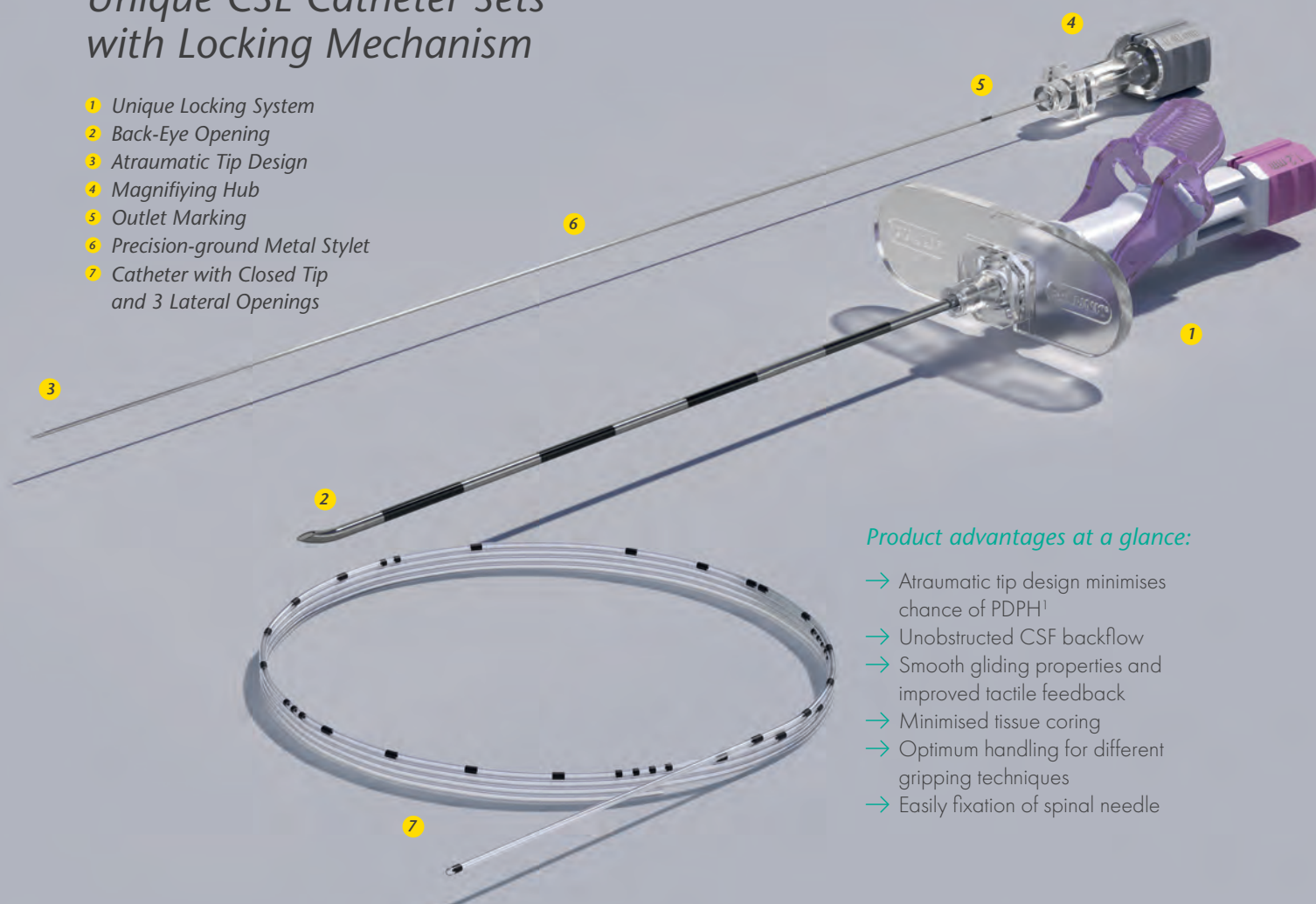
Description	Catheter	Sprotte	Item no.	NRFit Item no.	PU	Filter	Clamping Adapter	LOR 10 ml
18G x 90 mm (3 1/2")	20G x 90 mm (35")	27G	0021451-30	1022461-30	10	•	•	•
18G x 90 mm (3 1/2")	20G x 90 mm (35")	25G	0021451-18	1022461-18	10	•	•	•

1. Cesarini, M. et al. Sprotte needle for intrathecal anaesthesia for Caesarean section: incidence of postdural puncture headache. *Anaesthesia* 1990; 45: 646-658

EpiSpin Lock

Unique CSE Catheter Sets with Locking Mechanism

- 1 Unique Locking System
- 2 Back-Eye Opening
- 3 Atraumatic Tip Design
- 4 Magnifying Hub
- 5 Outlet Marking
- 6 Precision-ground Metal Stylet
- 7 Catheter with Closed Tip and 3 Lateral Openings



Product advantages at a glance:

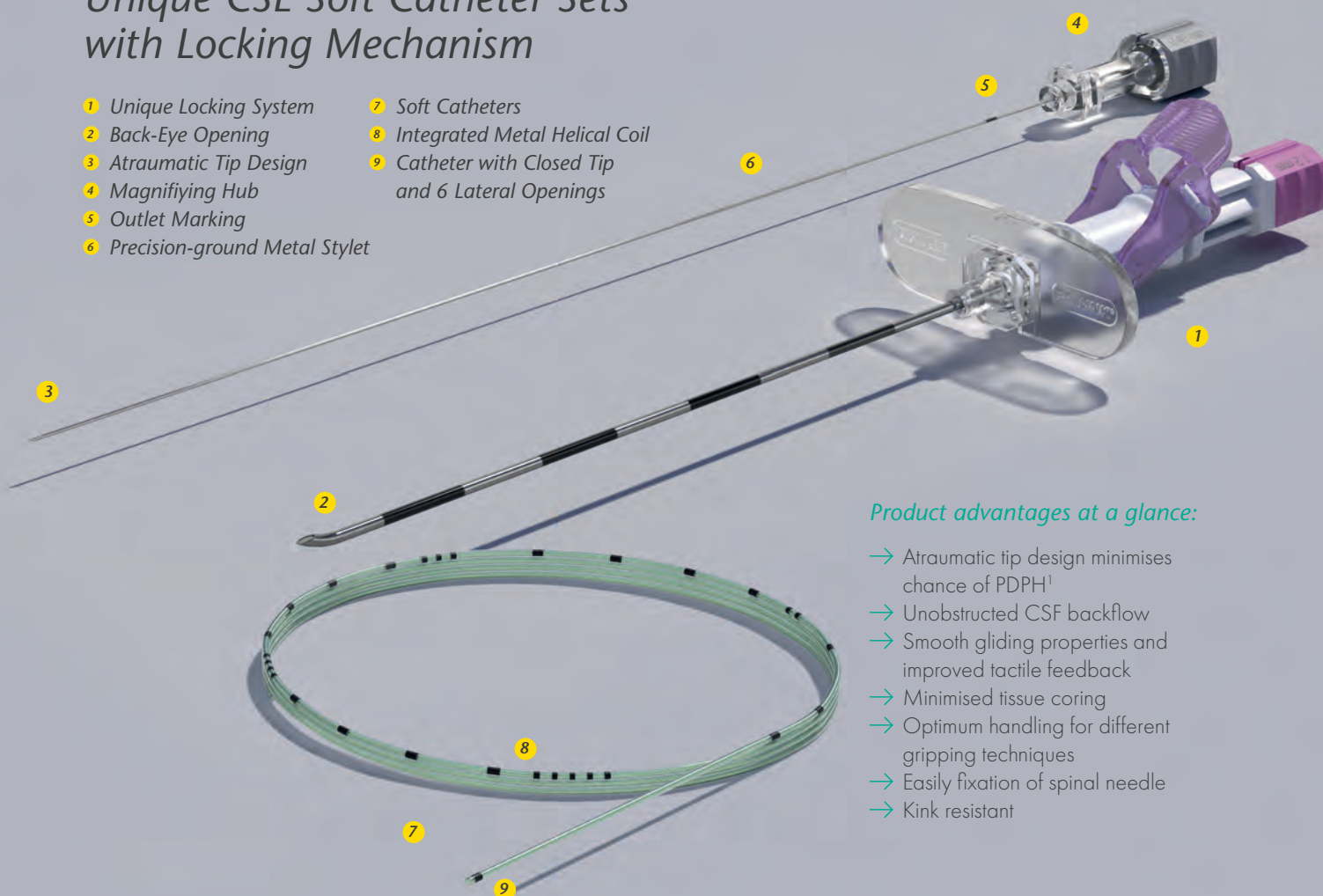
- Atraumatic tip design minimises chance of PDPH¹
- Unobstructed CSF backflow
- Smooth gliding properties and improved tactile feedback
- Minimised tissue coring
- Optimum handling for different gripping techniques
- Easily fixation of spinal needle

Description	Catheter	SPROTTE®	Item no.	NRFit® Item no.	PU	FixoLong	Filter	Clamping Adapter	LOR 10 ml
18G x 90 mm (3 1/2")	20G x 90 mm (35")	27G	0001351-30		10		•	•	
18G x 90 mm (3 1/2")	20G x 90 mm (35")	27G	0021351-30		10		•	•	•
18G x 90 mm (3 1/2")	20G x 90 mm (35")	25G	0021351-18		10		•	•	•
18G x 90 mm (3 1/2")	20G x 90 mm (35")	25G	0001351-18		10		•	•	
18G x 135 mm (5 3/8")	20G x 90 mm (35")	25G	0121351-18		10		•	•	•
16G x 90 mm (3 1/2")	19G x 90 mm (35")	25G	0021351-17		10	•	•	•	•

EpiSpin Lock Soft

Unique CSE Soft Catheter Sets with Locking Mechanism

- 1 Unique Locking System
- 2 Back-Eye Opening
- 3 Atraumatic Tip Design
- 4 Magnifying Hub
- 5 Outlet Marking
- 6 Precision-ground Metal Stylet
- 7 Soft Catheters
- 8 Integrated Metal Helical Coil
- 9 Catheter with Closed Tip and 6 Lateral Openings



Product advantages at a glance:

- Atraumatic tip design minimises chance of PDPH¹
- Unobstructed CSF backflow
- Smooth gliding properties and improved tactile feedback
- Minimised tissue coring
- Optimum handling for different gripping techniques
- Easily fixation of spinal needle
- Kink resistant

Description	Catheter	Sprotte	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adapter	LOR 10 ml
18G x 90 mm (3 1/2")	20G x 90 mm (35")	27G	0021352-30		10		•	•	•
18G x 90 mm (3 1/2")	20G x 90 mm (35")	25G	0021352-18		10		•	•	•

1. Cesarini, M. et al. Sprotte needle for intrathecal anaesthesia for Caesarean section: incidence of postdural puncture headache. *Anaesthesia* 1990; 45: 646 -658

SonoPlex® II & E-Cath® REGIONAL ANESTHESIA'S FAVORITE POWER COUPLE

Our Product Power Couple is the perfect solution for all of your **Single Shot** or **Continuous Nerve Blocks**, offering great visibility, ease-of-use, and the versatility you need.



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SonoPlex II/SonoBlock II The Standard for Ultrasound-Guided Single-Shot Nerve Blocks

- Cornerstone Reflectors and NanoLine® coating increase shaft and tip echogenicity
- Newly Optimized Hub
 - Color-coded hub for easy size identification
 - Fixed injection tubing
 - Removable stimulation cord (SonoPlex II)



Excellent visibility
irrespective of
the insertion angle

E-Cath/E-Cath Plus

Nerve Block Catheter Placement as Easy as a Single-Shot

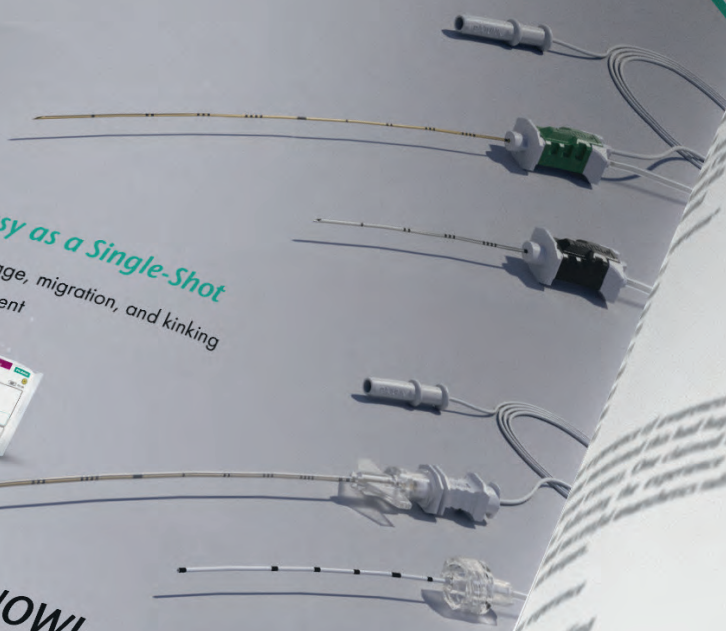
- Catheter over Needle (CON) technique reduces leakage, migration, and kinking
- Cornerstone Reflectors increase visibility during placement
- New lengths in 100mm and 150mm

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customizable procedural trays



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Nerve Blocks

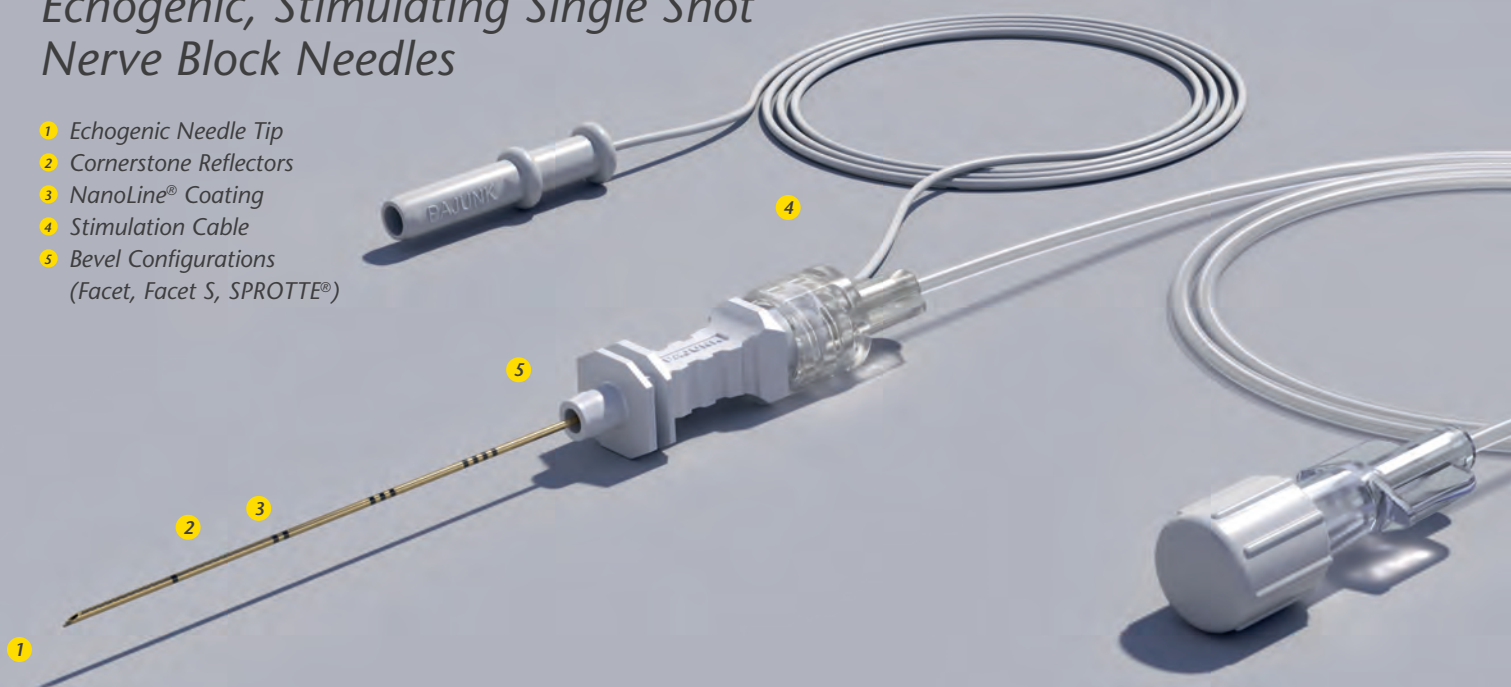
*Single Shot and Continuous Products for
Ultrasound and Dual Guided Nerve Blocks*



SonoPlex®

Echogenic, Stimulating Single Shot Nerve Block Needles

- 1 Echogenic Needle Tip
- 2 Cornerstone Reflectors
- 3 NanoLine® Coating
- 4 Stimulation Cable
- 5 Bevel Configurations (Facet, Facet S, SPROTTE®)



Product advantages at a glance:

- #1 echogenic nerve block needle globally
- Reliable needle visualisation at any angle
- Optimised ultrasound visibility of needle shaft
- Smooth gliding properties
- Stimulating (Dual Guidance)

SonoPlex with Facet Tip	Item no.	PU
• 24G x 25 mm (1")	001185-75	10
• 24G x 40 mm (1 5/8")	001185-78	10
• 24G x 50 mm (2")	001185-85	10
• 22G x 40 mm (1 5/8")	001185-70	10
• 22G x 50 mm (2")	001185-74	10
22G x 80 mm (3 1/5")	001185-71	10
21G x 80 mm (3 1/5")	001185-88	10
21G x 100 mm (4")	001185-77	10
20G x 120 mm (4 3/4")	001185-72	10
20G x 150 mm (6")	001185-76	10
SonoPlex with Sprotte Tip	Item no.	PU
• 24G x 40 mm (1 5/8")	001185-30G	10
• 22G x 50 mm (2")	001185-31G	10
22G x 70 mm (2 3/4")	001185-31H	10
22Gx 90 mm (3 1/2")	001185-31J	10

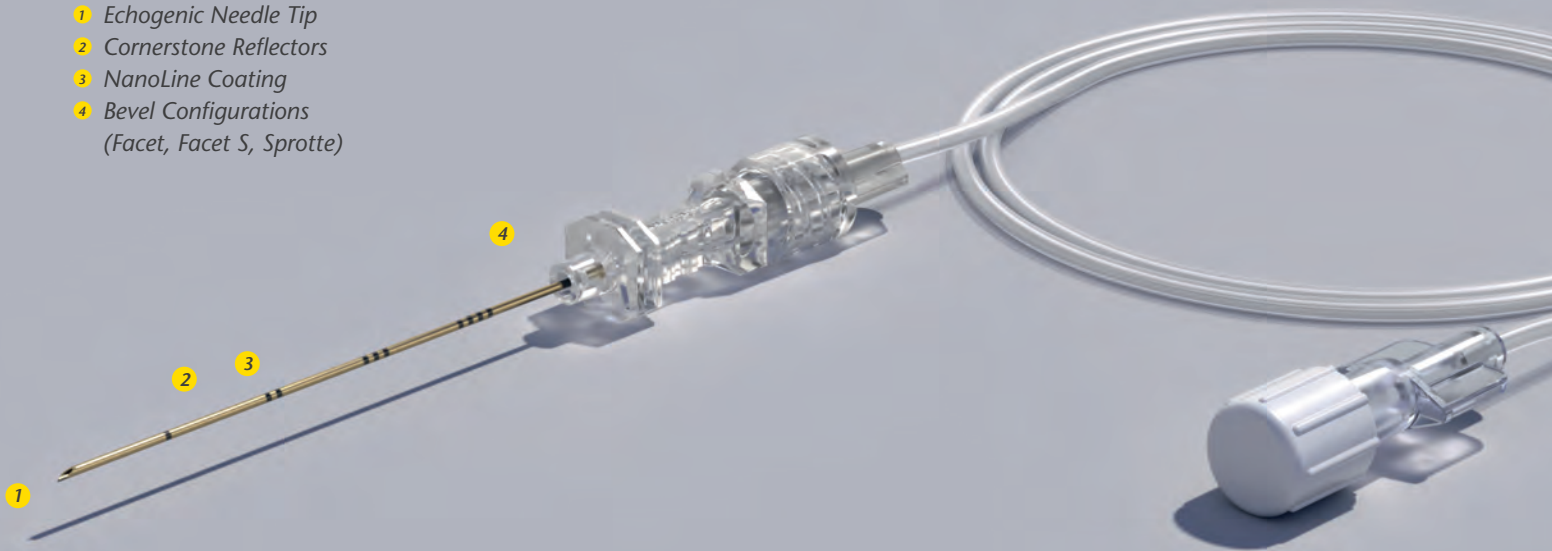
SonoPlex with Facet S Tip	Item no.	PU
• 25G x 50 mm (2")	001187-81	10
• 24G x 40 mm (1 5/8")	001187-78	10
• 24G x 50 mm (2")	001187-85	10
• 22G x 40 mm (1 5/8")	001187-70	10
• 22G x 50 mm (2")	001187-74	10
22G x 70 mm (2 3/4")	001187-93	10
22G x 80 mm (3 1/5")	001187-71	10
21G x 80 mm (3 1/5")	001187-88	10
21G x 100 mm (4")	001187-77	10
20G x 120 mm (4 3/4")	001187-72	10
20G x 150 mm (6")	001185-76	10

- Small patient product

SonoBlock

Echogenic, Non-stimulating Single Shot Nerve Block Needles

- 1 Echogenic Needle Tip
- 2 Cornerstone Reflectors
- 3 NanoLine Coating
- 4 Bevel Configurations
(Facet, Facet S, Sprotte)



Product advantages at a glance:

- #1 echogenic nerve block needle globally
- Reliable needle visualisation at any angle
- Optimised ultrasound visibility of needle shaft
- Smooth gliding properties
- Non-stimulating (Ultrasound Guidance only)

SonoBlock with Facet Tip

	Item no.	PU
• 25G x 50 mm (2")	001180-81	10
• 24G x 40 mm (1 5/8")	001180-78	10
• 24G x 50 mm (2")	001180-85	10
• 22G x 40 mm (1 5/8")	001180-70	10
• 22G x 50 mm (2")	001180-74	10
22G x 80 mm (3 1/5")	001180-71	10
21G x 100 mm (4")	001180-77	10
20G x 120 mm (4 3/4")	001180-72	10

SonoBlock with Sprotte Tip

	Item no.	PU
• 24G x 40 mm (1 5/8")	001180-30G	10
• 22G x 50 mm (2")	001180-31G	10
22G x 70 mm (2 3/4")	001180-31H	10
22Gx 90 mm (3 1/2")	001180-31J	10

SonoBlock with Facet S Tip

	Item no.	PU
• 25G x 50 mm (2")	001181-81	10
• 24G x 40 mm (1 5/8")	001181-78	10
23G x 70 mm (2 3/4")	001181-94	10
• 22G x 40 mm (1 5/8")	001181-70	10
• 22G x 50 mm (2")	001181-74	10
22G x 70 mm (2 3/4")	001181-93	10
22G x 80 mm (3 1/5")	001181-71	10
21G x 80 mm (3 1/5")	001181-88	10
21G x 100 mm (4")	001181-77	10
20G x 120 mm (4 3/4")	001181-72	10

- Small patient product

SonoTAP[®]

Echogenic, Non-stimulating Single Shot Fascial Plane Block Needles

- 1 Echogenic Needle Tip
- 2 Cornerstone Reflectors
- 3 Facet Tip



Product advantages at a glance:

- Reliable needle visualisation at any angle
- Optimised ultrasound visibility of needle shaft
- Non-stimulating (Ultrasound Guidance only)

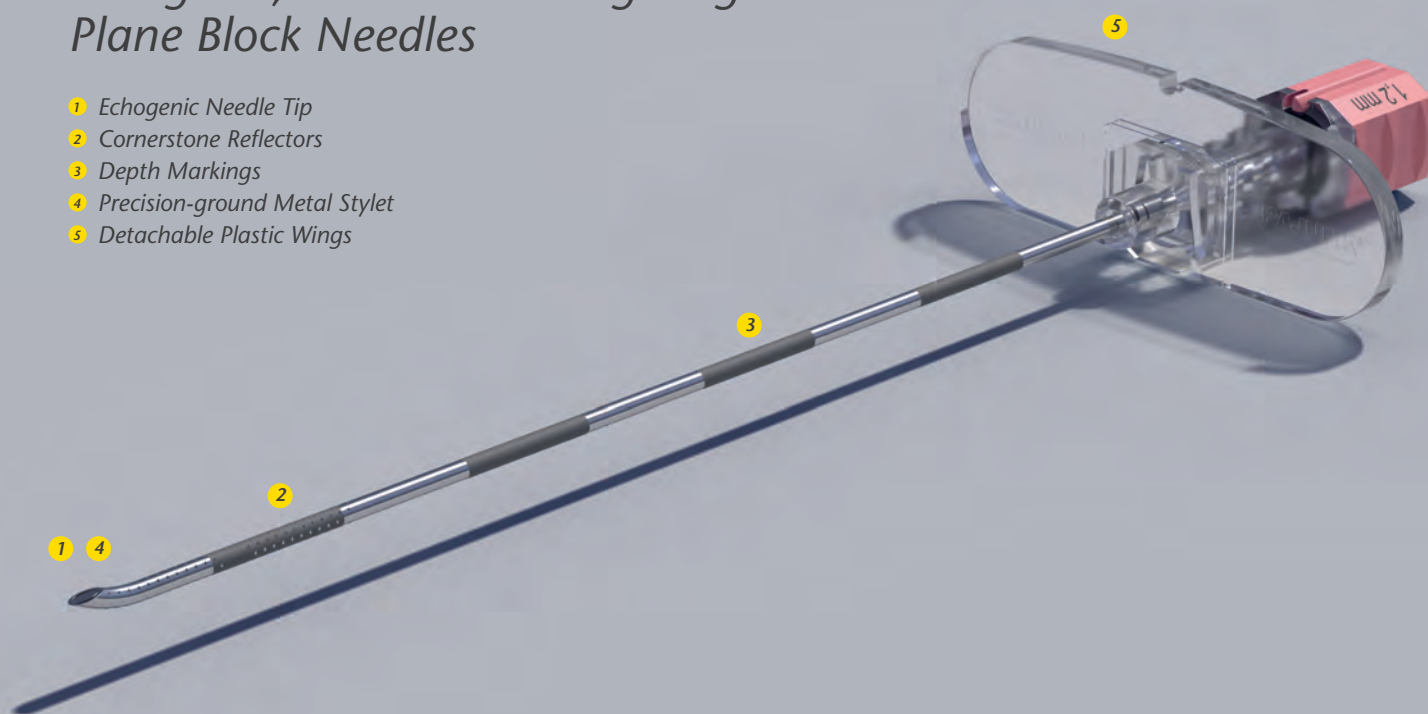
Description	Item no.	PU
• 24G x 40 mm (1 5/8")	1185-3Y040	10
• 22G x 50 mm (2")	1185-3E050	10
22G x 80 mm (3 1/5")	1185-3E080	10
21G x 100 mm (4")	1185-3F110	10
21G x 150 mm (6")	1185-3F150	10

- Small patient product

TuohySono

Echogenic, Non-stimulating Single Shot Plane Block Needles

- 1 Echogenic Needle Tip
- 2 Cornerstone Reflectors
- 3 Depth Markings
- 4 Precision-ground Metal Stylet
- 5 Detachable Plastic Wings



Product advantages at a glance:

- Reliable needle visualisation at any angle
- Optimised ultrasound visibility of needle shaft
- Non-stimulating (Ultrasound Guidance only)

Description	Item no.	PU
20G x 103 mm (4")	1085-4G103	25
• 18G x 50 mm (2")	1085-4K050	25
18G x 90 mm (3 1/2")	1085-4K090	25
18G x 120 mm (4 3/4")	1085-4K120	10
18G x 150 mm (6")	1085-4K150	10
17G x 90 mm (3 1/2")	1085-4M090	25
17G x 150 mm (6")	1085-4M150	10

- Small patient product

SonoEye

Echogenic Needles for
Ultrasound-Guided Retrobulbar Blocks

- 1 Echogenic Needle Tip
- 2 Cornerstone Reflectors
- 3 Aktinson Tip



Product advantages at a glance:

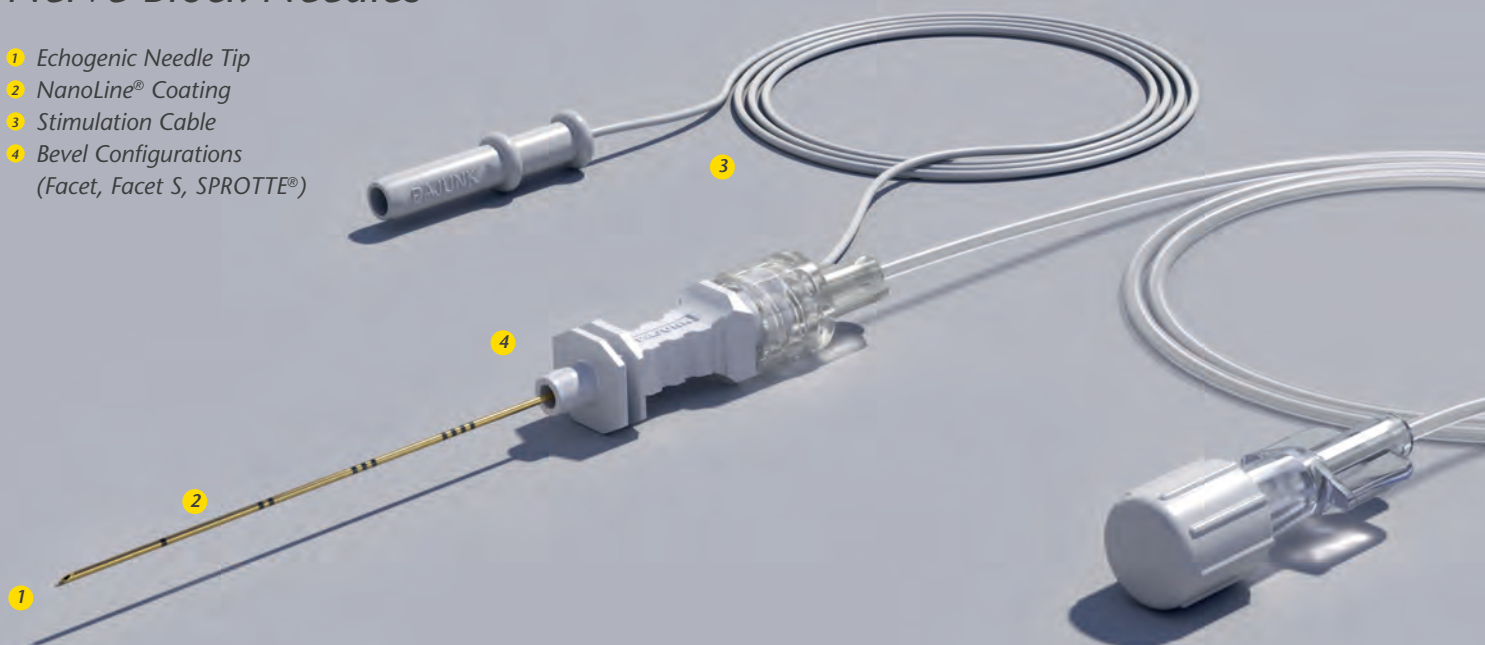
- Reliable needle visualisation at any angle
- Optimised ultrasound visibility of needle shaft

Description	Item no.	PU
24G x 30mm (1 1/5")	1187-7000	10
24G x 40mm (1 5/8")	1187-7001	10

UniPlex®

Stimulating Single Shot Nerve Block Needles

- 1 Echogenic Needle Tip
- 2 NanoLine® Coating
- 3 Stimulation Cable
- 4 Bevel Configurations
(Facet, Facet S, SPROTTE®)



Product advantages at a glance:

- Smooth gliding properties
- Stimulating

UniPlex with Facet Tip	Item no.	NRFit® Item no.*	PU	UniPlex with Facet S Tip	Item no.	NRFit Item no.*	PU
• 25G x 35 mm (1 1/3")	001156-80	001246-80	10	• 25G x 35 mm (1 1/3")	001157-80	001247-80	10
• 25G x 50 mm (2")	001156-81	001246-81	10	• 25G x 50 mm (2")		001247-81	10
25G x 80 mm (3 1/5")	001156-86		10	• 24G x 25 mm (1")	001157-75	001247-75**	10
• 24G x 25 mm (1")	001156-75	001246-75**	10	• 24G x 50 mm (2")	001157-81	001247-85	10
• 24G x 50 mm (2")	001156-85	001246-85	10	• 22G x 40 mm (1 5/8")	001157-70		10
• 22G x 40 mm (1 5/8")	001156-70	001246-70	10	• 22G x 50 mm (2")	001157-74	001247-74	10
• 22G x 50 mm (2")	001156-74	001246-74	10	22G x 80 mm (3 1/5")	001157-71	001247-71	10
22G x 80 mm (3 1/5")	001156-71	001246-71	10	22G x 100 mm (4")		001247-84	10
22G x 100 mm (4")	001156-84	001246-84	10	21G x 100 mm (4")	001157-77	001247-77	10
22G x 120 mm (4 3/4")	001156-82	001246-82	10	20G x 150 mm (6")	001157-76	001247-76	10
21G x 100 mm (4")	001156-77	001246-77	10				
20G x 120 mm (4 3/4")	001156-72	001246-72	10	UniPlex with Sprotte Tip	Item no.	NRFit Item no.*	PU
20G x 150 mm (6")	001156-76	001246-76	10	• 24G x 40 mm (1 5/8")	001156-30G		10
				• 22G x 50 mm (2")	001156-31G	001246-31G	10
				22G x 70 mm (2 3/4")	001156-31H	001246-31H	10
				22G x 90 mm (3 1/2")	001156-31J	001246-31J	10
				22G x 150 mm (6")	001156-28L	001246-28L	10

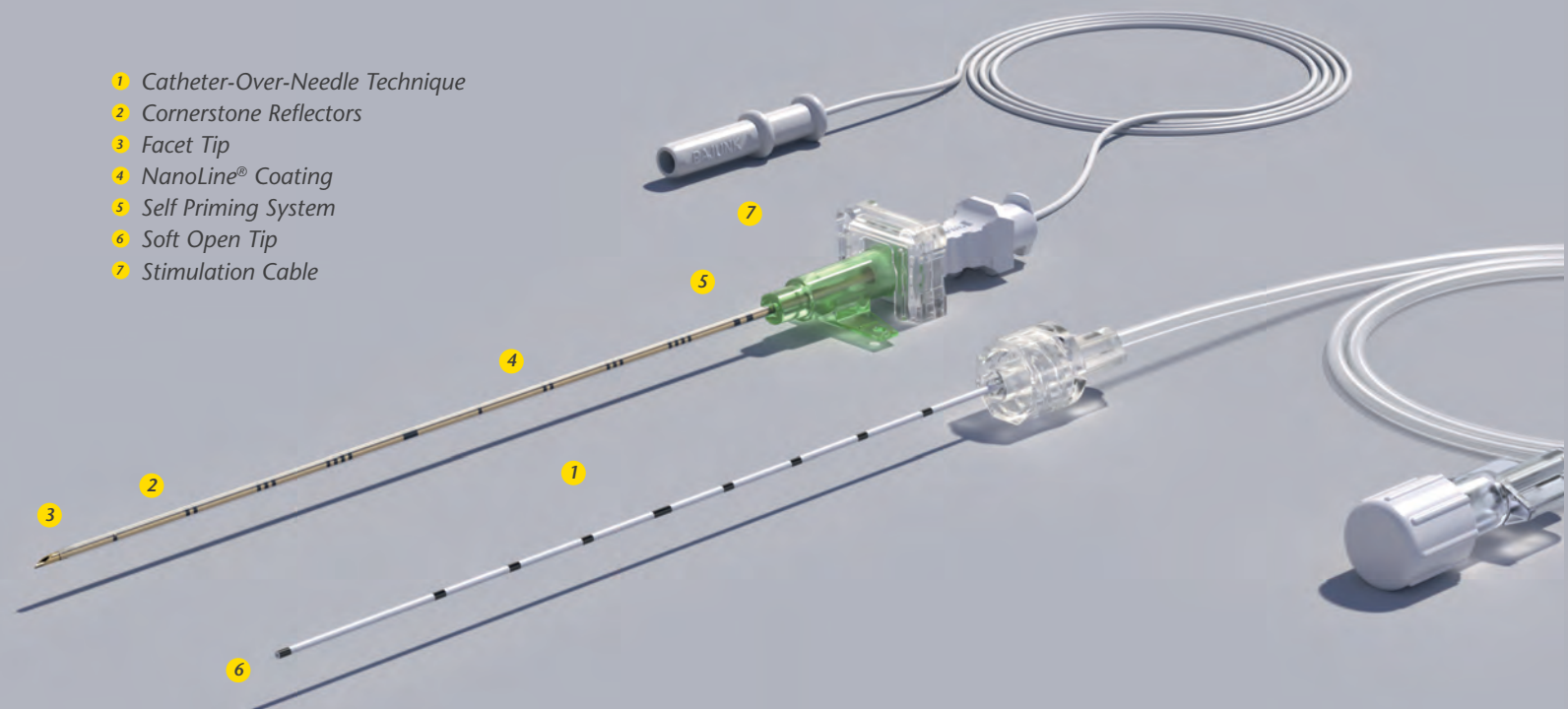
- Small patient product

- * with UniPlex II – 2nd generation needle
** 24G x 30mm (1 1/5")

E-Cath®

Echogenic Catheter-Over-Needle Systems

- 1 Catheter-Over-Needle Technique
- 2 Cornerstone Reflectors
- 3 Facet Tip
- 4 NanoLine® Coating
- 5 Self Priming System
- 6 Soft Open Tip
- 7 Stimulation Cable



Product advantages at a glance:

- Echogenic system
- Soft open tip catheter with additional 360° lateral opening
- Stimulating

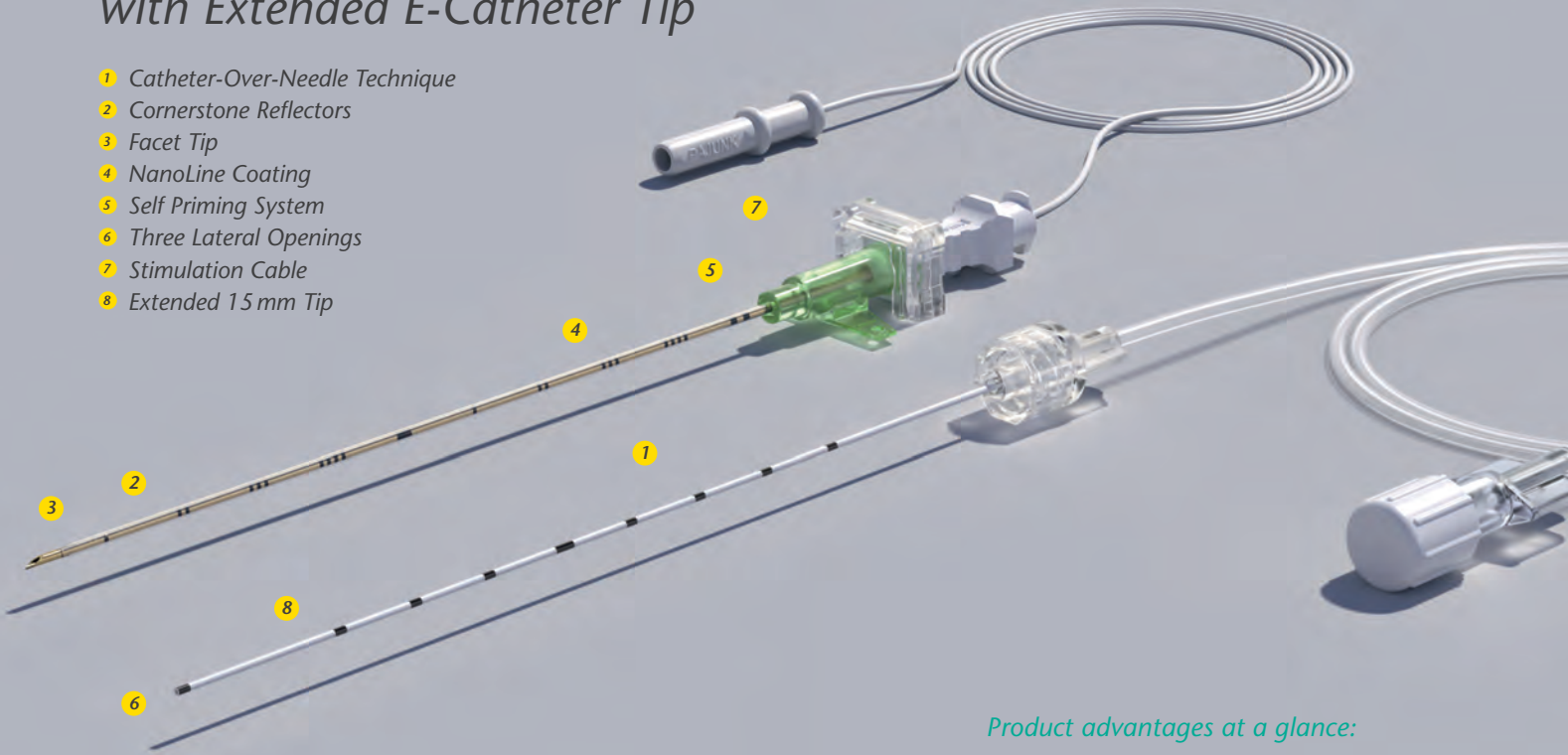
Indwelling catheter (working length)	SonoPlex® Needle	E-Catheter	Item no.	NRFit® Item no.*	PU	FixoLong	Filter
18G x 51 mm (2")	21G x 68 mm (2 2/3")	20G	201185-40E	201165-40E	10	•	•
18G x 75 mm (3")	21G x 94 mm (3 2/3")	20G	211185-40E	211165-40E	10	•	•
18G x 83 mm (3 1/4")	21G x 101 mm (4")	20G	241185-40E	241165-40E	10	•	•
18G x 100 mm (4")	21G x 118 mm (4 3/4")	20G	261185-40E		10	•	•
18G x 130 mm (5 2/5")	21G x 150 mm (6")	20G	251185-40E	251165-40E	10	•	•
18G x 150 mm (6")	21G x 168 mm (6 3/5")	20G	271185-40E		10	•	•

* with SonoPlex II – 2nd generation needle

E-Cath Plus

Echogenic Catheter-Over-Needle Systems with Extended E-Catheter Tip

- 1 Catheter-Over-Needle Technique
- 2 Cornerstone Reflectors
- 3 Facet Tip
- 4 NanoLine Coating
- 5 Self Priming System
- 6 Three Lateral Openings
- 7 Stimulation Cable
- 8 Extended 15 mm Tip



Product advantages at a glance:

- Echogenic system
- Soft open tip catheter with additional 360° lateral opening
- Stimulating

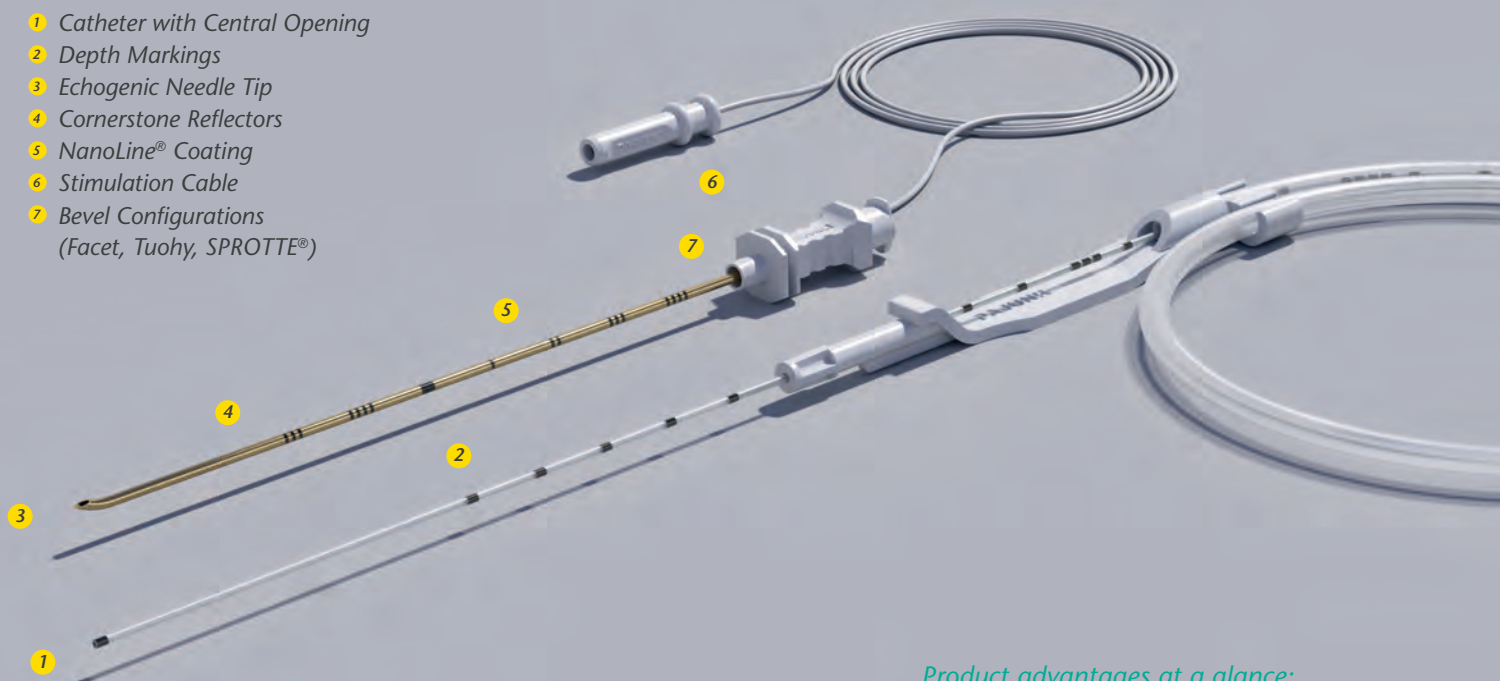
Indwelling catheter (working length)	SonoPlex Needle	E-Catheter	Item no.	NRFit Item no.*	PU	FixoLong	Filter
18G x 51 mm (2")	21G x 68 mm (2 2/3")	20G	201185-41E	201165-41E	10	•	•
18G x 75 mm (3")	21G x 94 mm (3 2/3")	20G	211185-41E	211165-41E	10	•	•
18G x 83 mm (3 1/4")	21G x 101 mm (4")	20G	241185-41E	241165-41E	10	•	•
18G x 100 mm (4")	21G x 118 mm (4 3/4")	20G	261185-41E		10	•	•
18G x 130 mm (5 2/5")	21G x 150 mm (6")	20G	251185-41E	251165-41E	10	•	•
18G x 150 mm (6")	21G x 168 mm (6 3/5")	20G	271185-41E		10	•	•

* with SonoPlex II – 2nd generation needle

SonoLong Echo

Echogenic Catheter-Through-Needle Systems

- 1 Catheter with Central Opening
- 2 Depth Markings
- 3 Echogenic Needle Tip
- 4 Cornerstone Reflectors
- 5 NanoLine® Coating
- 6 Stimulation Cable
- 7 Bevel Configurations (Facet, Tuohy, SPROTTE®)



Product advantages at a glance:

- Echogenic plastic catheter
- Catheter dispenser with automatic stylet removal
- Stimulating

SonoLong Echo with Facet Tip	Catheter	Item no.	NRFit® Item no.*	PU	FixoLong	Filter	Clamping Adapter
• 19G x 50 mm (2")	20G x 50 cm (20")	531185-31 A	531165-31 A	10	•	•	•
19G x 75 mm (3")	20G x 50 cm (20")	561185-31 A	561165-31 A	10	•	•	•
19G x 100 mm (4")	20G x 50 cm (20")	521185-31 A	521165-31 A	10	•	•	•
19G x 150 mm (6")	20G x 50 cm (20")	511185-31 A	511165-31 A	10	•	•	•

SonoLong Echo with Tuohy Tip	Catheter	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adapter
• 18G x 50 mm (2")	20G x 50 cm (20")	531185-31 C		10	•	•	•
18G x 75 mm (3")	20G x 50 cm (20")	561185-31 C		10	•	•	•
18G x 100 mm (4")	20G x 50 cm (20")	521185-31 C		10	•	•	•
18G x 150 mm (6")	20G x 50 cm (20")	511185-31 C	511165-31 C	10	•	•	•

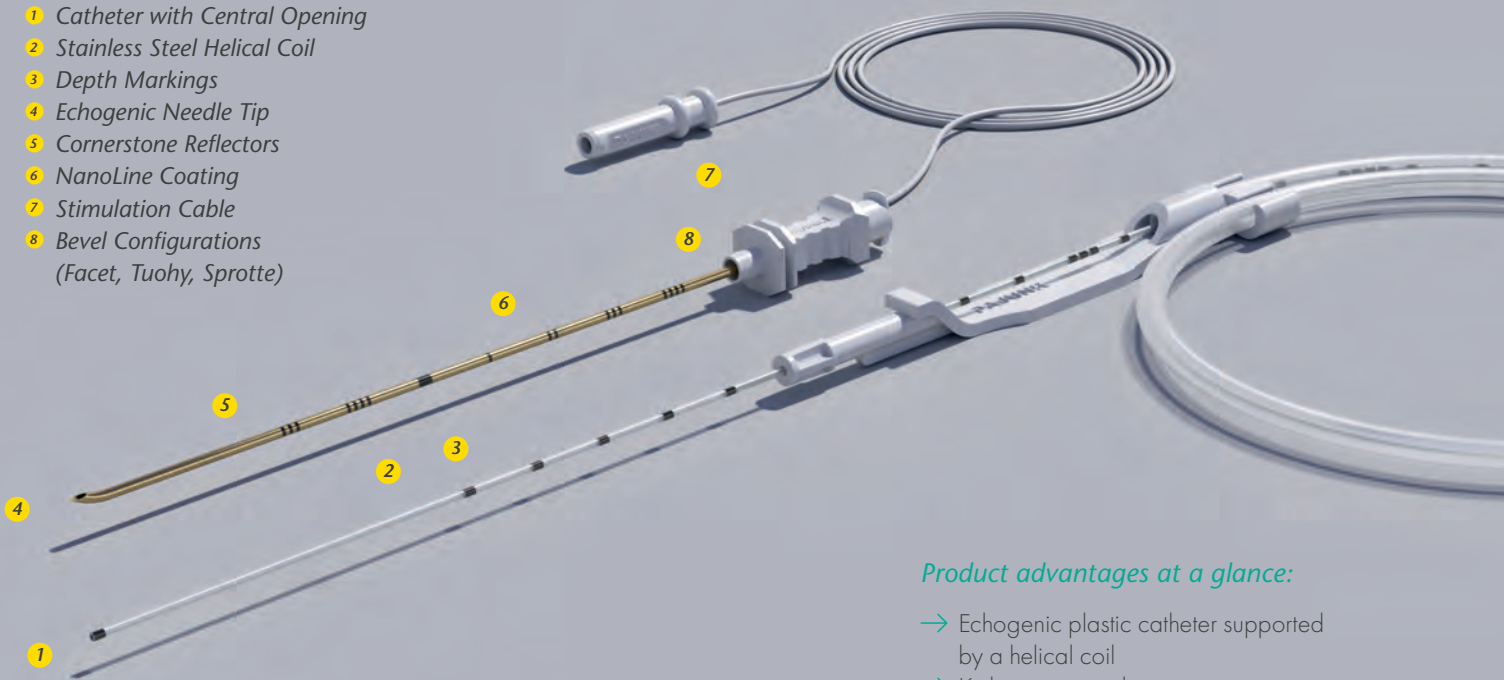
SonoLong Echo with Sprotte Special Tip	Catheter	Item no.	NRFit Item no.*	PU	FixoLong	Filter	Clamping Adapter
19G x 60 mm (2 1/4")	20G x 50 cm (20")	531185-31 B	531165-31 B	10	•	•	•
19G x 120 mm (4 3/4")	20G x 50 cm (20")	521185-31 B	521165-31 B	10	•	•	•

• Small patient product * with SonoPlex II – 2nd generation needle

SonoLong Sono

Echogenic Catheter-Through-Needle Systems with Stainless Steel Helical Coil

- 1 Catheter with Central Opening
- 2 Stainless Steel Helical Coil
- 3 Depth Markings
- 4 Echogenic Needle Tip
- 5 Cornerstone Reflectors
- 6 NanoLine Coating
- 7 Stimulation Cable
- 8 Bevel Configurations (Facet, Tuohy, Sprotte)



Product advantages at a glance:

- Echogenic plastic catheter supported by a helical coil
- Kink resistant catheter
- Catheter dispenser with automatic stylet removal
- Soft catheter tip
- Stimulating

SonoLong Sono with Facet Tip	Catheter	Item no.	NRFit Item no.*	PU	FixoLong	Filter	Clamping Adapter
• 19G x 50 mm (2")	20G x 50 cm (20")	531187-31 A	531197-31 A	10	•	•	•
19G x 75 mm (3")	20G x 50 cm (20")	561187-31 A	561197-31 A	10	•	•	•
19G x 100 mm (4")	20G x 50 cm (20")	521187-31 A	521197-31 A	10	•	•	•
19G x 150 mm (6")	20G x 50 cm (20")	511187-31 A	511197-31 A	10	•	•	•

SonoLong Sono with Tuohy Tip	Catheter	Item no.	NRFit Item no.*	PU	FixoLong	Filter	Clamping Adapter
• 18G x 50 mm (2")	20G x 50 cm (20")	531187-31 C	531197-31 C	10	•	•	•
18G x 75 mm (3")	20G x 50 cm (20")	561187-31 C		10	•	•	•
18G x 100 mm (4")	20G x 50 cm (20")	521187-31 C		10	•	•	•
18G x 150 mm (6")	20G x 50 cm (20")	511187-31 C		10	•	•	•

SonoLong Sono with Sprotte Special Tip	Catheter	Item no.	NRFit Item no.*	PU	FixoLong	Filter	Clamping Adapter
19G x 60 mm (2 1/4")	20G x 50 cm (20")	531187-31 B	531165-31 B	10	•	•	•
19G x 120 mm (4 3/4")	20G x 50 cm (20")	521187-31 B	521165-31 B	10	•	•	•

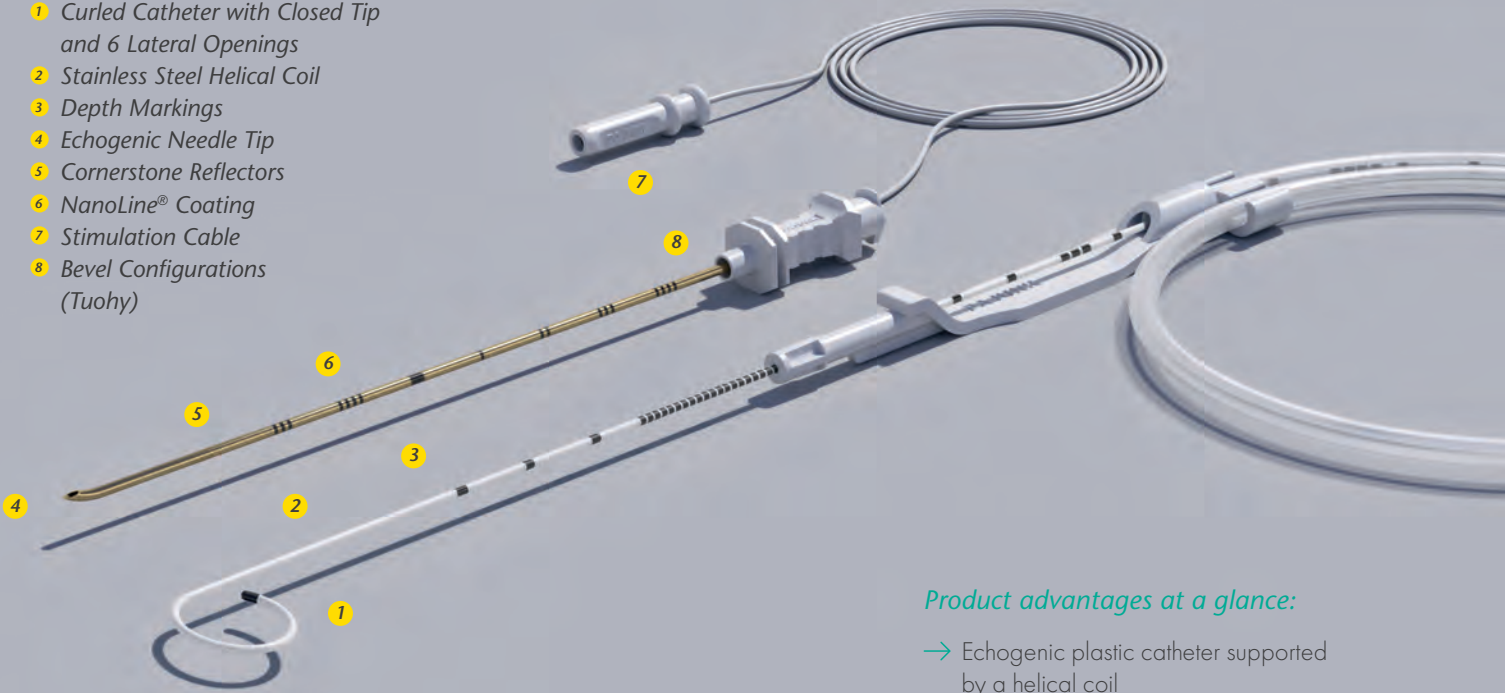
• Small patient product

* with SonoPlex II – 2nd generation needle

SonoLong Curl Echo

Echogenic Specialty Catheter-Through-Needle Systems

- 1 Curled Catheter with Closed Tip and 6 Lateral Openings
- 2 Stainless Steel Helical Coil
- 3 Depth Markings
- 4 Echogenic Needle Tip
- 5 Cornerstone Reflectors
- 6 NanoLine® Coating
- 7 Stimulation Cable
- 8 Bevel Configurations (Tuohy)



Product advantages at a glance:

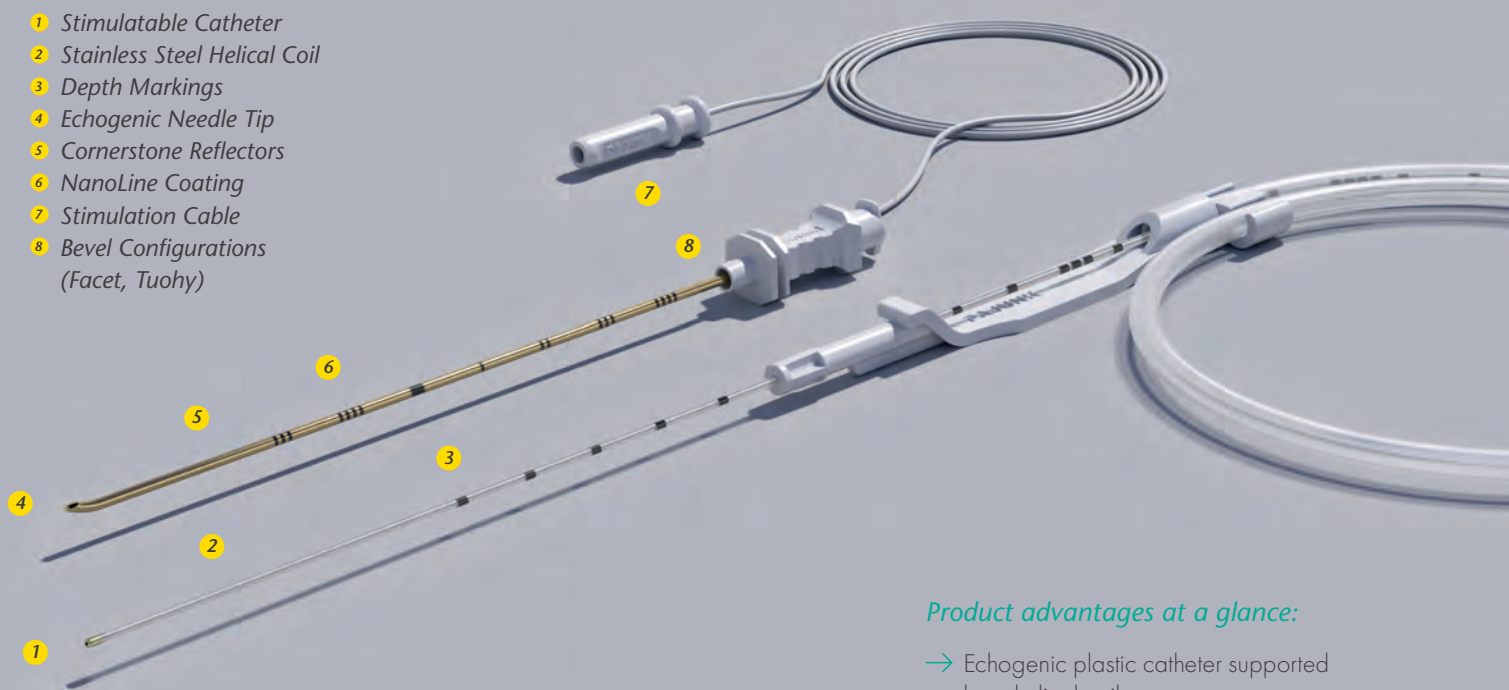
- Echogenic plastic catheter supported by a helical coil
- Curled catheter with closed tip and 6 lateral eyes
- Catheter dispenser
- Stimulating

SonoLong Curl Echo with Tuohy Tip	Catheter	Item no.	NRFit® Item no.	PU	FixoLong	Filter	Clamping Adapter
• 18G x 50 mm (2")	20G x 50 cm (20")	531188-31C		10	•	•	•
• 18G x 50 mm (2")	20G x 90 cm (35")	531188-34C		10	•	•	•
• 18G x 100 mm (4")	20G x 90 cm (35")	521188-34C		10	•	•	•

• Small patient product

StimuLong Sono II

Stimulating Catheter-Through-Needle Systems



Product advantages at a glance:

- Echogenic plastic catheter supported by a helical coil
- Rounded stimulating catheter tip
- Catheter dispenser with automatic stylet removal
- Stimulating

StimuLong Sono II with Facet Tip	Catheter	Item no.	PU	FixoLong	Filter	StimuLong Clamping Adapter	Connecting cable
• 19G x 50 mm (2")	20G x 50 cm (20")	531187-32A	10	•	•	•	•
• 19G x 100 mm (4")	20G x 50 cm (20")	521187-32A	10	•	•	•	•

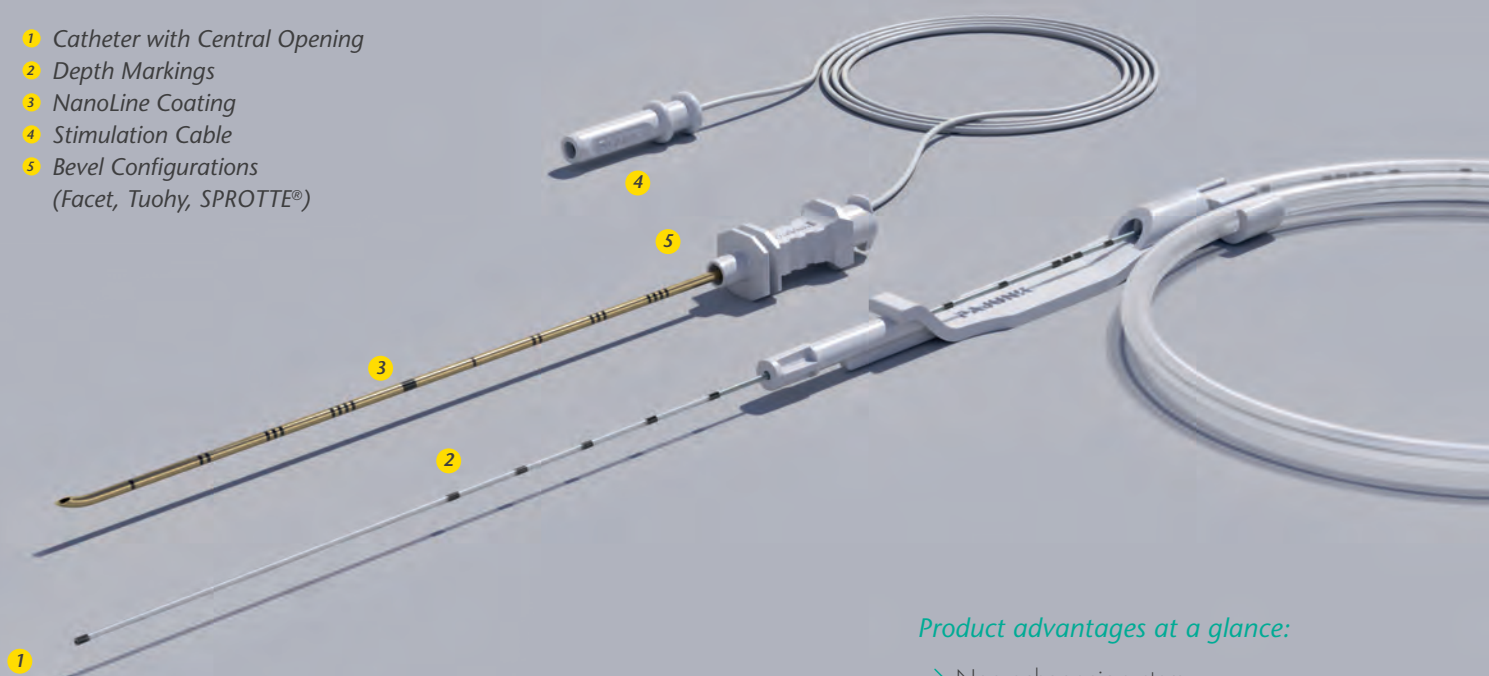
StimuLong Sono II with Tuohy Tip	Catheter	Item no.	PU	FixoLong	Filter	StimuLong Clamping Adapter	Connecting cable
• 18G x 50 mm (2")	20G x 50 cm (20")	531187-32C	10	•	•	•	•
• 18G x 100 mm (4")	20G x 50 cm (20")	521187-32C	10	•	•	•	•

• Small patient product

PlexoLong NanoLine®

Non-echogenic Catheter-Through-Needle Systems

- 1 Catheter with Central Opening
- 2 Depth Markings
- 3 NanoLine Coating
- 4 Stimulation Cable
- 5 Bevel Configurations
(Facet, Tuohy, SPROTTE®)



Product advantages at a glance:

- Non-echogenic system
- Catheter dispenser with automatic stylet removal
- Stimulating

PlexoLong NanoLine with Facet Tip	Catheter	Item no.	NRFit® Item no.*	PU	FixoLong	Filter	Clamping Adapter
• 19G x 30 mm (1 1/5")	20G x 50 cm (20")	541156-31A		10	•	•	•
• 19G x 50 mm (2")	20G x 50 cm (20")	531156-31A	531166-31A	10	•	•	•
19G x 100 mm (4")	20G x 50 cm (20")	521156-31A	521166-31A	10	•	•	•
19G x 150 mm (6")	20G x 50 cm (20")	511156-31A	511166-31A	10	•	•	•

PlexoLong NanoLine with Sprotte Special Tip	Catheter	Item no.	NRFit® Item no.*	PU	FixoLong	Filter	Clamping Adapter
19G x 60 mm (2 1/4")	20G x 50 cm (20")	531156-31B	531166-31B	10	•	•	•
19G x 120 mm (4 3/4")	20G x 50 cm (20")	521156-31B	521166-31B	10	•	•	•
19G x 150 mm (6")	20G x 50 cm (20")	511156-31B	511166-31B	10	•	•	•

PlexoLong NanoLine with Tuohy Tip	Catheter	Item no.	NRFit® Item no.*	PU	FixoLong	Filter	Clamping Adapter
• 18G x 50 mm (2")	20G x 50 cm (20")	531156-31C	531166-31C	10	•	•	•
18G x 100 mm (4")	20G x 50 cm (20")	521156-31C	521166-31C	10	•	•	•
18G x 100 mm (4")	20G x 90 cm (35")	521156-34C		10	•	•	•
18G x 150 mm (6")	20G x 50 cm (20")	511156-31C	511166-31C	10	•	•	•

• Small patient product * with SonoPlex II – 2nd generation needle

MultiStim ECO

Dual Guidance Nerve Block Stimulator

- 1 Direct Needle Connection
- 2 Fixation Directly on the Patient
- 3 Adaptable Patient Cable



Product advantages at a glance:

- Limited, easy settings
- Snap-on button
- Direct connection to the needle

Description	Item no.	PU
MultiStim ECO with device case	1151-94-52	1
Extension cable for connecting stimulation needles, autoclavable	001151-861F	10
Extension cable for connecting stimulation needles and stimulators, disposable	001151-861Q	10
PlugX – patient cable with plug 2.0 mm for needle and clamp adapter for electrode	1151-94-21	1

MultiStim SENSOR

Advanced Nerve Block Stimulator

- 1 PEG (Percutaneous Electrode Guidance) Optional
- 2 Large and Clearly Arranged Display



Product advantages at a glance:

- Large and clearly arranged display
- Analog current dial
- Safety features

Description	Item no.	PU
MultiStim SENSOR with device case and patient cable for needle / electrode connection	1151-94-30	1
MultiStim SENSOR with device case and patient cable for needle / stimulation handle / electrode connection	1151-94-32	1
Extension cable for connecting stimulation needles, autoclavable	001151-861 F	10
Extension cable for connecting stimulation needles and stimulators, disposable	001151-861 Q	10
Patient cable with plug 2.0 mm for needle and clamp adapter for electrode	1151-94-13	1
Patient cable with plug 2.0 mm for needle, clamp adapter for electrode and connector for monopolar handle	1151-94-14	1
Stimulation handle, monopolar	1151-94-17	1

schon dagegen ge-
wöhnung in al-
bei der langjähri-
gen Werten in medizi-
sche für die Lernenden

alle noch einlebens-
fähig.

professionellen ist groß. Es ist effizient,
der Doktorarbeit Zeit in die Auswahl zu
weisen, zu investieren, als noch ein oder
zwei, dass man diese Arbeit nicht zu
schlechte oder kann. Vor Beginn der Suche soll-
te die eigene Neugierde und Fähigkeiten
analysieren.

bei den Münchener Studierenden in diesem Jahr
Juli/August 2009 – ein Angebot, das etwa 1.000 Studen-
den nutzen. 41 Institute und Kliniken teilten auf der
Messe ihre wissenschaftlichen Arbeiten vor. Jener fanden

wissenschaftliche Vorzüge von renommierten Forschern
und etablierten Doktoranden auf dem Programm. In zahl-
reichen Präsentationen kamen Studierende zudem die Mög-
lichkeit, die eigene Promotionsaufgabe zu präsentieren;
in Workshops konnten sie sich mit promotorischen Themen wie „Grundlagen einer erfolgreichen Promotion“,
„Writing“ vertauschen. Die Evaluation ergibt, dass es
wenig mehr als die Hälfte der Besucher noch keine Doktor-
arbeit“ wertig machen. Die Evaluation zeigt, dass die
Teilnehmenden haben, die andere Hälfte wurde noch nicht
entschieden über eine bessere abgeordnete
fachbezogenen haben, die andere Hälfte wurde noch nicht
entschieden über eine bessere abgeordnete
Arbeit“, erläutern Handrich. Die Studierenden haben die
Menschen als elementaren Bestandteil der Doktorarbeit
empfunden, grüßte von den Promotorinnen und
den Workshops. Die Befragung zeigte auch, die Beschäfti-
gung ist wichtig, dass Forscherin“ hat. Dabei gefunden,
Knapp 90 Prozent der Teilnehmer entschieden sich nicht
selbst auf den Doktorat für eine Arbeit, sondern werden
sich zunächst noch mehrere Institute genau anschauen.
Dr. med. Eva Richter-Köhler



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PAJUNK
Trust Tradition. Experience Innovation.

With Pajunk's Continuous Wound Infiltration System

InfiltraLong

- Precise 360° microperforations for consistent homogeneous flow
- More effective pain relief while reducing opioid consumption
- Kink protection hub and stainless steel helical coil for better catheter stability
- Including accessories like introducer needles and filters



FuserPump

- Sturdy 350ml hard shell pump
- Flexible flow rates: 3, 5, 8 ml/h
- Spring Scale indicates remaining amount of anesthetic

Wound Infiltration

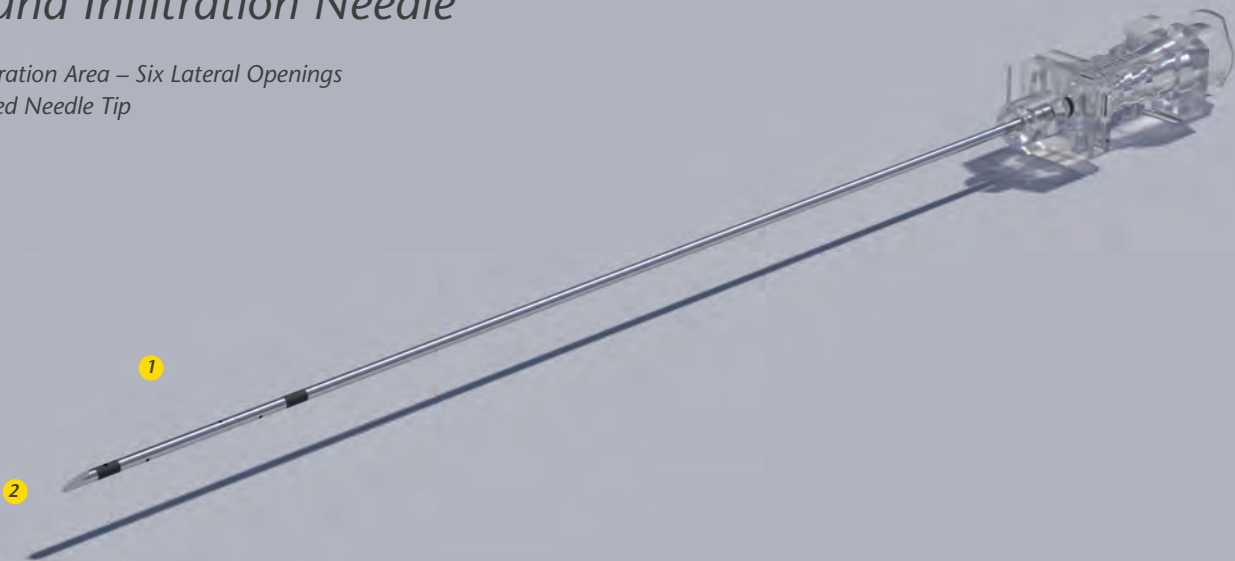
*Wide Range of
Wound Infiltration Solutions*



InFiltr

Single Shot Wound Infiltration Needle

- 1 Infiltration Area – Six Lateral Openings
- 2 Closed Needle Tip



Product advantages at a glance:

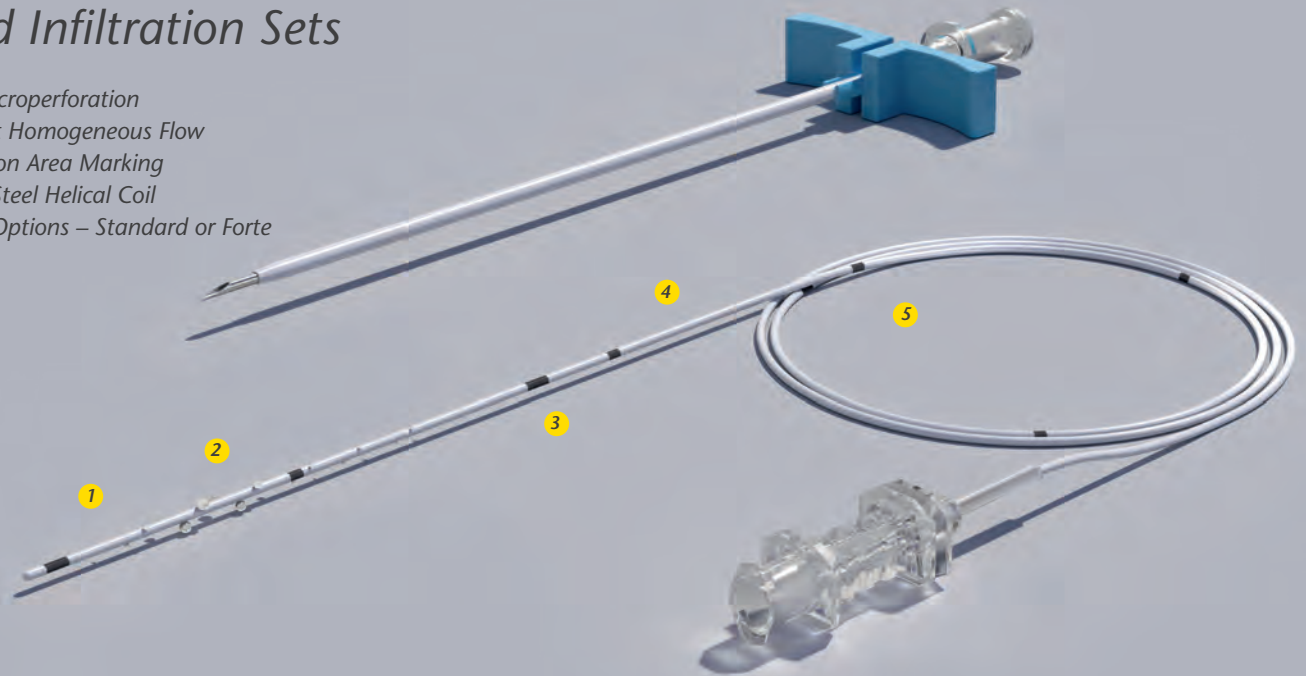
- 360 degree arrangement for close, evenly spaced, fine infusion perforations²
- More effective pain relief²
- Infusion reaches its target by the fastest and most direct route²
- Kink resistant

Description	Item no.	PU
20G x 100mm needle with 6 lateral openings on the first 20 mm	1158-3G100	25

InfiltraLong

Continuous Wound Infiltration Sets

- 1 Precise Microperforation
- 2 Consistent Homogeneous Flow
- 3 Fenestration Area Marking
- 4 Stainless Steel Helical Coil
- 5 Catheter Options – Standard or Forte



Product advantages at a glance:

- 360 degree arrangement for close, evenly spaced, fine infusion perforations²
- More effective pain relief²
- Infusion reaches its target by the fastest and most direct route²
- Kink resistant

InfiltraLong / InfiltraLong Forte

incl. split needle with puncture needle, Filter, FixoLong

Description	Item no. Standard catheter 19G	Item no. Forte catheter 18G	NRFit® Item no. Forte catheter 18G	PU
InfiltraLong 420 InfiltraLong catheter 420 mm (16 1/2"), with flexible helical coil and 10 openings along the first 25 mm	001158-00D			10
InfiltraLong (Forte) 420 InfiltraLong catheter 420 mm (16 1/2"), with flexible helical coil and 15 openings along the first 40 mm	001158-00Z	001158-01 Z	001168-01 Z	10
InfiltraLong (Forte) 500 InfiltraLong catheter 500 mm (19 1/2"), with flexible helical coil and 30 openings along the first 75 mm	001158-10A	001158-11A	001168-11 A	10
InfiltraLong (Forte) 600 InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 60 openings along the first 150 mm	001158-20B		001168-21 B	10
InfiltraLong (Forte) 600 InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 45 openings along the first 100 mm	001158-20D		001168-21 D	10
InfiltraLong (Forte) 700 InfiltraLong catheter 700 mm (27 1/2"), with flexible helical coil and 88 openings along the first 220 mm	001158-30C		001168-31 C	10

InfiltraLong TUN

Continuous Wound Infiltration Sets with Pre-attached Tunneler

- 1 Pre-attached Curved Tunneler
- 2 Precise Microperforation
- 3 Consistent Homogeneous Flow
- 4 Fenestration Area Marking
- 5 Stainless Steel Helical Coil
- 6 Catheter Options – Standard or Forte



Product advantages at a glance:

- 360 degree arrangement for close, evenly spaced, fine infusion perforations²
- More effective pain relief²
- Infusion reaches its target by the fastest and most direct route²
- Kink resistant

InfiltraLong TUN / InfiltraLong TUN Forte

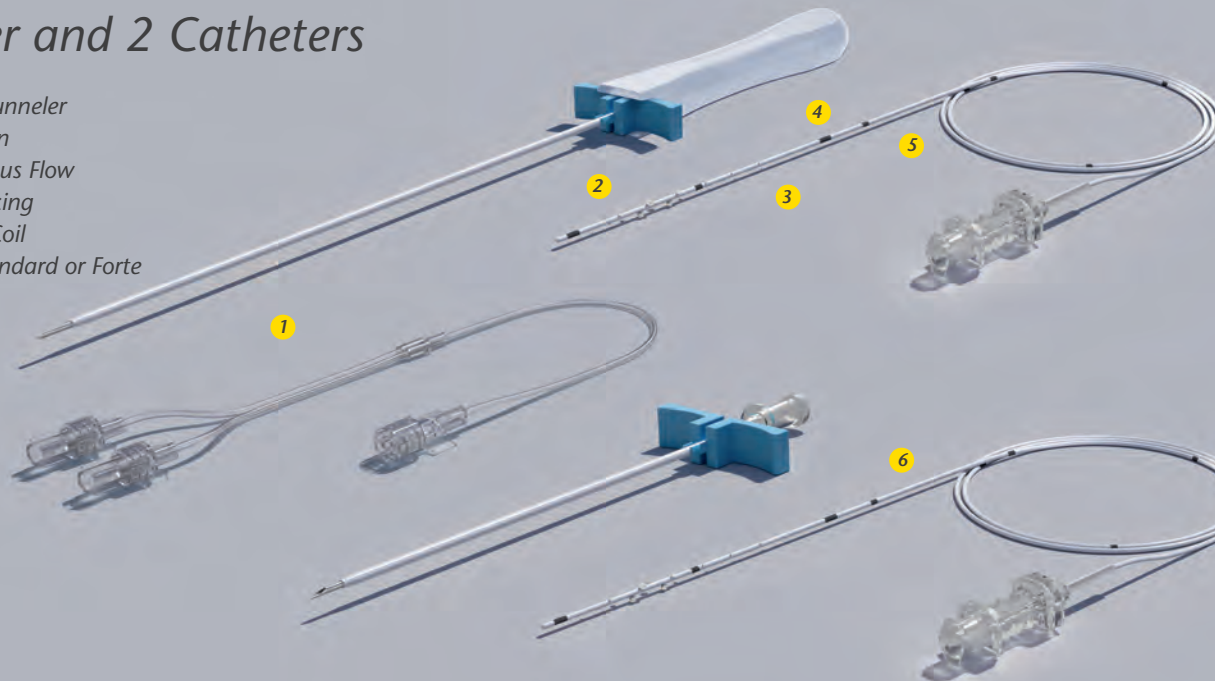
incl. pre-attached curved tunneler, Clamping Adapter, Filter, FixoLong

Description	Item no. Standard catheter 19G	NRFit® Item no. Forte catheter 18G	PU
InfiltraLong TUN (Forte) 420T InfiltraLong catheter 420 mm (16 1/2"), with flexible helical coil and 10 openings along the first 25 mm	021159-00D	021169-01D	10
InfiltraLong TUN 420T InfiltraLong catheter 420 mm (16 1/2"), with flexible helical coil and 15 openings along the first 40 mm	021159-00Z		10
InfiltraLong TUN 500T InfiltraLong catheter 500 mm (19 1/2"), with flexible helical coil and 30 openings along the first 75 mm	021159-10A		10
InfiltraLong TUN (Forte) 600T InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 60 openings along the first 150 mm	021159-20B	021169-21B	10
InfiltraLong TUN (Forte) 600T InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 45 openings along the first 100 mm	021159-20D	021169-21D	10
InfiltraLong (Forte) 700T InfiltraLong catheter 700 mm (27 1/2"), with flexible helical coil and 88 openings along the first 220 mm	021159-30C		10
InfiltraLong (Forte) 900T InfiltraLong catheter 900 mm (35 1/2"), with flexible helical coil and 88 openings along the first 300 mm	021159-40C		10

InfiltraLong TUN Duo

Continuous Wound Infiltration Set with Tunneler and 2 Catheters

- 1 Pre-attached Curved Tunneler
- 2 Precise Microperforation
- 3 Consistent Homogeneous Flow
- 4 Fenestration Area Marking
- 5 Stainless Steel Helical Coil
- 6 Catheter Options – Standard or Forte



Product advantages at a glance:

- 360 degree arrangement for close, evenly spaced, fine infusion perforations²
- More effective pain relief²
- Infusion reaches its target by the fastest and most direct route²
- Kink resistant

InfiltraLong TUN Duo

Description	Item no.	PU
	Standard catheter 19G	
InfiltraLong TUN Duo · 2x InfiltraLong catheter 19G x 600 mm with integrated stainless steel helical coil and 60 openings along the first 150 mm, with 360° markings · 1x Injection tube with Y-connector · 1x Filter · 1x FixoLong · 1x Tunneler 235 · 1x Split needle · 1x Luer-Lock syringe 20 ml · 2x transparent adhesive	021154-20B	3

2. Campolo M., Molin D., Rawal N., Soldati A. Protocols to compare infusion distribution of wound catheters, Med. Eng. Phys. 2011 Apr; 34(3): 326–332

FuserPump (Individual)

Continuous Wound Infiltration Pump

- 1 Hard Shell Pump, 350 ml
- 2 Flexible Flow Rate
- 3 Carrying Pouch
- 4 Spring Scale



Product advantages at a glance:

- Possible virtual check: shatter-proof, clear shell
- Variable flow rates

FuserPump

Description	Item no.	NRFit® Item no.*	PU
FuserPump 350 ml with Carrying Pouch, Spring Scale, Syringe 50 ml Lock	1157-00-00	1167-00-00	3
FuserPump Filler Filling system for FuserPump with non-return valve, spike	001151-38L		10

*with Spike NRFit

FuserPump

Continuous Wound Infiltration Sets with FuserPump

- 1 Hard Shell Pump, 350 ml
- 2 Flexible Flow Rate
- 3 Precise Microperforation
- 4 Consistent Homogeneous Flow
- 5 Fenestration Area Marking
- 6 Stainless Steel Helical Coil
- 7 Catheter Options – Standard or Forte



Product advantages at a glance:

- 360 degree arrangement for close, evenly spaced, fine infusion perforations²
- More effective pain relief²
- Infusion reaches its target by the fastest and most direct route²
- Kink resistant
- Possible virtual check: shatter-proof, clear shell
- Variable flow rates

Forte FuserPump / FuserPump Forte

incl. split needle with puncture needle, Filter, FixoLong, FuserPump 350 ml, 50 ml syringe, spring scale

Description	Item no. Standard catheter 19G	Item no. Forte catheter 18G	NRFit Item no. Forte catheter 18G	PU
FuserPump (Forte) 420 InfiltraLong catheter 420 mm (16 1/2"), with flexible helical coil and 15 openings along the first 40 mm	001157-00Z	001157-01 Z	101167-01 Z	3
FuserPump (Forte) 500 InfiltraLong catheter 500 mm (19 2/3"), with flexible helical coil and 30 openings along the first 75 mm	001157-10A	001157-11A	101167-11A	3
FuserPump (Forte) 600 InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 60 openings along the first 150 mm	001157-20B	001157-21B	101167-21B	3
FuserPump 600 InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 45 openings along the first 100 mm	001157-20D			3
FuserPump (Forte) 700 InfiltraLong catheter 700 mm (27 1/2"), with flexible helical coil and 88 openings along the first 220 mm	001157-30C		101167-31 C	3
FuserPump 900 InfiltraLong catheter 900 mm (35 1/2"), with flexible helical coil and 88 openings along the first 300 mm	001157-40C			3

FuserPump TUN

Continuous Wound Infiltration Sets with FuserPump and Tunneler

- 1 Pre-attached Curved Tunneler
- 2 Hard Shell Pump, 350 ml
- 3 Flexible Flow Rate
- 4 Precise Microperforation
- 5 Consistent Homogeneous Flow
- 6 Fenestration Area Marking
- 7 Stainless Steel Helical Coil
- 8 Catheter Options – Standard or Forte



Product advantages at a glance:

- 360 degree arrangement for close, evenly spaced, fine infusion perforations²
- More effective pain relief²
- Infusion reaches its target by the fastest and most direct route²
- Kink resistant
- Possible virtual check: shatter-proof, clear shell
- Variable flow rates

FuserPump TUN

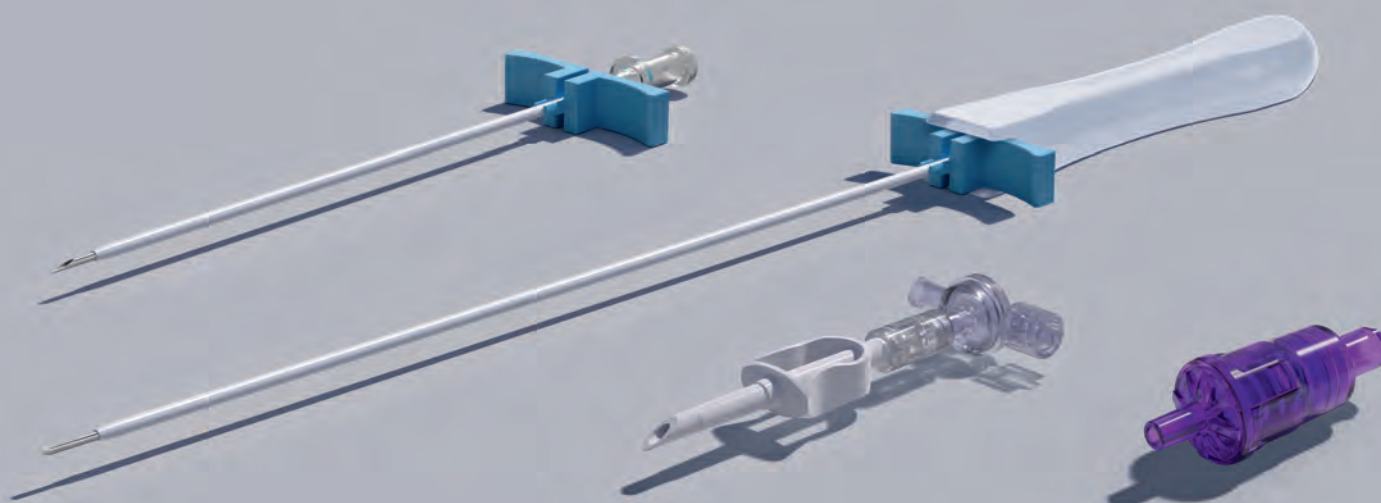
incl. pre-attached curved tunneler, Clamping Adapter, Filter, FixoLong, FuserPump 350 ml, 50 ml syringe, spring scale

Description	Item no. Standard catheter 19G	PU
FuserPump TUN 420T InfiltraLong catheter 420 mm (16 1/2"), with flexible helical coil and 15 openings along the first 40 mm	021157-00Z	3
FuserPump TUN 500T InfiltraLong catheter 500 mm (19 2/3"), with flexible helical coil and 30 openings along the first 75 mm	021157-10A	3
FuserPump TUN 600T InfiltraLong catheter 600 mm (23 1/2"), with flexible helical coil and 60 openings along the first 150 mm	021157-20B	3

Accessories



EpiLong VPC, LOR, NerveGuard, Tunneler, FuserPump Filler, Clamping Adapter, FixoCath, Filter & FixoLong, Injection Tubing, NRFit® Accessories, SonoCover



EpiLong VPC & LOR	Item no.	NRFit Item no.	PU	Accessories	Item no.	NRFit Item no.	PU
EpiLong VPC 10 ml, Lock	0001151-49	0001163-49	10	Clamping Adapter grey for 18G		001163-39C	10
LOR Syringe, Lock	0001151-65		10	Clamping Adapter white for 19G	001151-38C	001163-38C	10
LOR Syringe, Slip		0001166-65	10	Clamping Adapter yellow for 20G/21G/23G	001151-37V	001163-37V	10
NerveGuard	Item no.	NRFit Item no.	PU	Clamping Adapter green for 25G/27G	001151-37Y		10
for single shot applications in diamteres of 20G/21G/22G	001151-38M	001163-38M	10	FixoCath	001151-37Z		10
for single shot applications in diamteres of 24G/25G	001151-38N	001163-38N	10	Filter	001151-37Q	001163-37X	10
Tunneler & FuserPump Filler	Item no.		PU	MiniFilter	001151-38K		10
Tunneler 105 with split needle 95 mm (3 3/4"), obturator 1 cm overlapping, for cahteter 18G	001151-54		1	FixoLong	001151-47	001163-40	10
Tunneler 235 with split needle 230 mm (9"), obturator 0.5 cm overlapping, for cahteter 18G	001151-55		1	FixoLong Mini	001151-43		10
FuserPump Filler Filling system for FuserPump with non-return valve, spike	001151-38L		10	FixoLong with Filter	001151-48	001163-41	10
				FixoLong Mini with Filter	001151-44		10
				Injection Tubing 60 cm (23")	001151-37R	001163-37R	10
				Injection Tubing 35 cm (14") with Y-connection	001151-37W		10



NRFit Accessories	NRFit Item no.	PU	SonoCover – Ultrasound Cover	Item no.	PU
Blood Patch Set Tuohy needle NRFit 18G x 90 mm (3 1/2") with metall stylet, injection needle 60 cm (2 1/4"), 2 syringe 20 ml NRFit Slip, syringe 5 ml Luer Slip, LOR syringe 10 ml NRFit Slip, injection needle 21G x 38 mm (1 1/2") green, injection needle 25G x 25 mm (1") orange, filter needle 18G x 50 mm (2"), filter needle NRFit 18G x 50 mm (2"), two-way stopcock, cotton swab tweezers, 6 round swabs, 4 compress, fenestrated drape, surgical drape	001166-942	5	15 x 100 cm (40") with 3D chamber at the tip, one stripe and two rubbers, sterile	011151-1501	25
Filter Needle 18G x 50 mm (2")	001163-38Y	10	15 x 30 cm (12") with 3D chamber at the tip, one stripe and two rubbers, sterile	011151-1530	25
Locking Cap male, yellow	001163-38S	10	15 x 60 cm (23 1/2") with 3D chamber at the tip, one stripe and two rubbers, sterile	011151-1560	25
Locking Cap female, yellow	001163-38Z	10	15 x 100 cm (40") with gel, one stripe and two rubbers, sterile	021151-1501	25
SonoCover – Ultrasound Cover	Item no.	PU	15 x 30 cm (12") with gel, one stripe and two rubbers, sterile	021151-1530	25
15 x 100 cm (40") with one stripe and two rubbers, sterile	001151-1501	25	15 x 60 cm (23 1/2") with gel, one stripe and two rubbers, sterile	021151-1560	25
15 x 30 cm (12") with one stripe and two rubbers, sterile	001151-1530	25	15 x 100 cm (40") with gel, one stripe and two rubbers, sterile	031151-1501	25
15 x 60 cm (23 1/2") with one stripe and two rubbers, sterile	001151-1560	25	15 x 30 cm (12") with gel, one stripe and two rubbers, sterile	031151-1530	25
			15 x 60 cm (23 1/2") with gel, one stripe and two rubbers, sterile	031151-1560	25

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