

Reducing Risks of Misconnections in Regional Anaesthesia¹

Are you NRFit® Ready?





Medical device connectors for Neuraxial & Regional Anaesthesia applications are changing to meet international design standards.

In 2017, the Australian Commission on Safety and Quality in Health Care (the Commission) and the Australian and New Zealand College of Anaesthetists (ANZCA) published a joint statement recommending that medical devices incorporating small-bore connectors be adopted in Australia as part of a global initiative to improve patient safety. Neural, including neuraxial, devices with connectors are required to be compliant with ISO 80369-6: 2016 and safe implementation must be carefully planned.^{1, 2, 3}

Medication errors during

Regional Anaesthesia procedures

The universally compatible Luer connector has been identified as a key element in 'wrong route' medication errors. Luer connectors are widely used for delivery of infusions. Literature shows that any patient having multiple access systems in place are exposed to higher risks of misconnections.⁵

Enhancing patient safety with NRFit®

To reduce the risk of wrong route medication errors the International Organization for Standardization (ISO) has developed standards for small-bore connectors, one being in the field of Neuraxial and Regional Anaesthesia (ISO 80369-6 ⁴). The name that will be used to identify devices that comply with the ISO 80369-6 standard is: ⁴

NRFit[®]

ISO 80369-6 in detail

2000 and 2014.

The ISO Standard 'specifies requirements for smallbore connectors intended to be used for connections in Neuraxial applications. Neuraxial applications involve the use of medical devices intended to administer medications to neuraxial sites, wound infiltration anaesthesia delivery, and other Regional Anaesthesia procedures or to monitor or remove cerebro-spinal fluid for therapeutic or diagnostic purposes.'⁶

The increasing sensitivity to medication errors in

clinical settings is visible in an increasing number

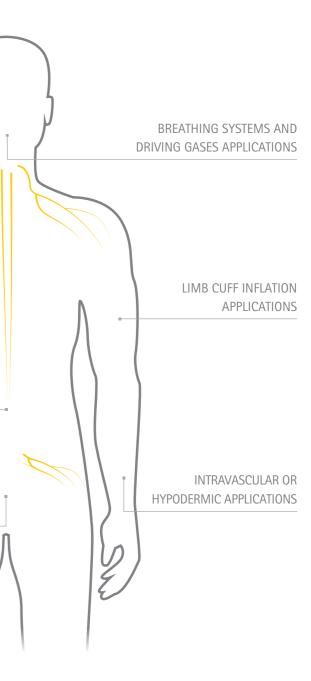
of publications on this subject in Pubmed between

The International Organization for Standardization (ISO) has identified several medical application areas for which an ISO standard will be developed. These standards are part of the ISO 80369 series. Each standard will provide design and performance specifications for the specific connectors.⁶

NRFit[®]

Neuraxial & Regional Anaesthesia applications Connector design based on ISO 80369-6 ENFit[®] Enteral applications

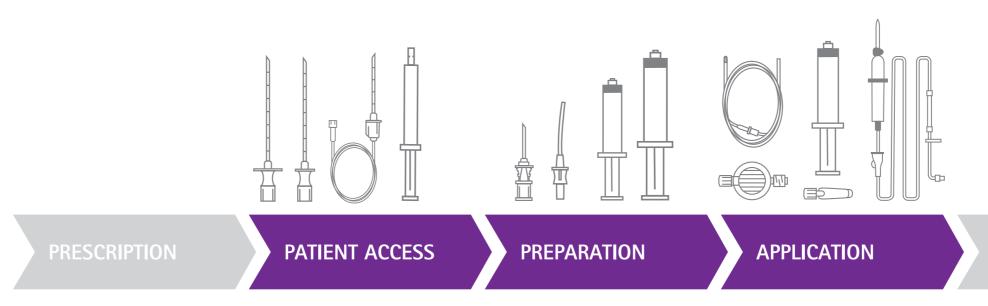
URETHRAL AND URINARY APPLICATIONS



Connector Changes in Regional Anaesthesia

And how it impacts your working process

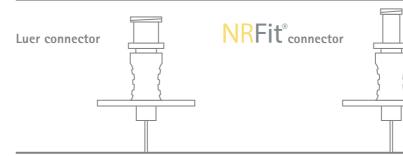
Observe. Listen. Understand. To find solutions that fit into everyday clinical life, B. Braun conducts a vivid dialogue with customers. Learning the importance of clear structures, we identified five major steps that represent customary therapy processes. Each of these steps is mapped with aligned products that are dedicated towards improving comfort and achieving a higher level of safety for users and for patients.



Regional Anaesthesia products with NRFit® connectors

In line with the ISO Standard for Neuraxial and Regional Anaesthesia devices, B. Braun has developed a comprehensive portfolio with NRFit[®] connectors for the corresponding process steps:

PATIENT ACCESS: Spinal, Epidural and PNB needles and LOR syringes PREPARATION: Filter needles, straws and syringes APPLICATION: Catheters, syringes, filters, catheter connectors, pump disposables





B. Braun, as a true System Partner, helps to stay on top of evolving standards and their realisation across multiple stakeholders, e.g. nurses, pharmacists and anaesthetists. With access to our comprehensive product portfolio in Pain Therapy and through constructive dialogue, our partners benefit from B. Braun's know-how and expertise.

DISCHARGE MANAGEMEN

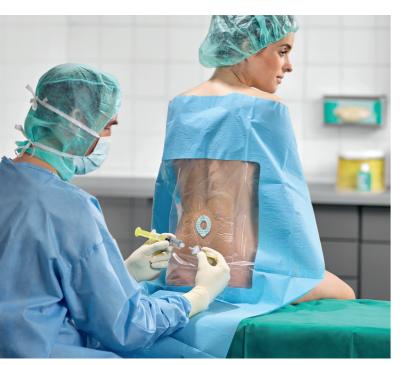
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User Benefits

- Dedicated connectors intended to help reduce the risks of misconnections
 20% smaller in diameter
- 20% smaller in diameter
- Yellow colour coding where feasible allows faster identification of Regional Anaesthesia devices

Neuraxial Anaesthesia with NRFit[®]

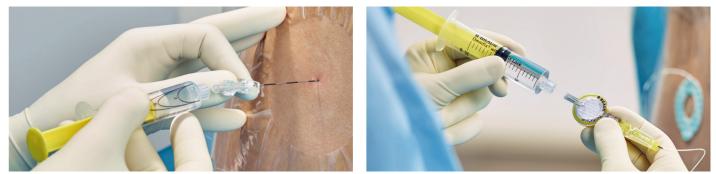
Connecting what belongs together



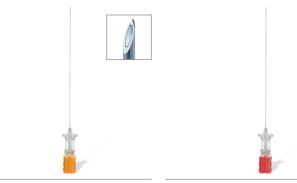
Therapeutic and anaesthetic decisions depend upon a number of factors, including the type and duration of the surgical intervention, patient status and selected postoperative patient management approaches.

Regional Anaesthesia can be divided into central and peripheral techniques. When a local anaesthetic agent is used next to the spinal cord, this is referred to as Neuraxial Anaesthesia. Neuraxial methods include Spinal and Epidural Anaesthesia.





Products with NRFit[®] connectors



Spinocan®

of CSF flashback.

Pencan[®] and Pencan[®] Paed

Spinocan[®] spinal needles with Quincke Pencan[®] spinal needles have an atraumatic Pencil point bevel, which helps reduce PDPH.⁷ They are available in adult and paediatric sizes. A prism in the spinal needle hub, supports identification of CSF flashback.



Perican®

Perican[®] epidural needles with Tuohy bevel are available in different sizes. Their polished inner bevel edge helps to reduce the risk of catheter shearing.8



Perifix[®] LOR syringe

Perifix[®] LOR is a dedicated device for the loss of resistance technique in Epidural Anaesthesia. Suitable for air and saline application. Its parabolic graduation helps to differentiate it from conventional syringes.



Perifix[®] catheters

APPLICATION

Perifix[®] catheters for Epidural Anaesthesia are available in different versions - Soft Tip and ONE.

PRESCRIPTION

bevel provide sharpness for low puncture force. A prism in the spinal

needle hub, supports identification

PATIENT ACCESS







Perifix[®] filter and Perifix[®] catheter connector Filters can help to reduce the risk of bacterial infections.9 The design of the Perifix® catheter connector and its 'click and ready' mechanism helps to ensure easy use in daily practice.

Peripheral Nerve Blocks with NRFit®

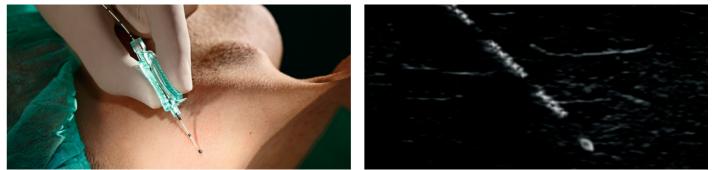
Connecting what belongs together



Peripheral and Plexus Nerve Blocks are one of the segments of Regional Anaesthesia, where a local anaesthetic agent is used next to a nerve to provide sensory and motor blockades.

Peripheral nerve blocks can be employed for Anaesthesia and for Postoperative Analgesia in order to support early patient mobilisation and rehabilitation. PNBs are also used in combination with other forms of Anaesthesia and where volatile anaesthetics are contraindicated.





Products with NRFit[®] connectors





Stimuplex[®] Ultra 360[®] needles

Stimuplex[®] Ultra 360[®] is designed to perform an ultrasound guided peripheral nerve block and nerve stimulation. The 360° X-pattern markings and clear coating results in better ultrasound visualisation and tip identification¹⁰.



Ultraplex[®] 360 needles

Ultraplex[®] 360 is a non-stimulating ultrasound needle, equipped with 30° back-cut bevel plus 360° X-shaped markings and a clear coating for better ultrasound visualisation and tip identification from all angles¹⁰, when nerve stimulation is not indicated (e.g. transversus abdominal plane block).

PATIENT ACCESS: CONTINUOUS PNB PRODUCTS



Contiplex[®] S Ultra 360[®] needles

Contiplex[®] S Ultra 360[®] is a continuous technique needle with a 20° facet bevel, designed to perform ultrasound guided peripheral nerve blocks in combination with nerve stimulation. Contiplex[®] Tuohy Ultra 360[®] is a continuous technique needle with Tuohy bevel, designed to perform ultrasound guided peripheral nerve blocks in combination with nerve stimulation.

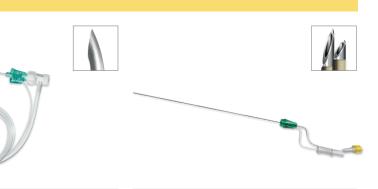
PRESCRIPTION

PATIENT ACCESS









Contiplex[®] Tuohy Ultra 360[®] needles

Contiplex[®] C

Contiplex[®] C is a patented catheter placement system with a catheter-over-needle design. It is designed to help overcome the limitations associated with peripheral catheters, such as complexity of catheter placement, leakage and catheter displacement.

DISCHARGE MANAGEMENT

Regional Anaesthesia Accessories and Complementary Portfolio

Connecting what belongs together



Preparation is a fundamental and irreplaceable part of health care practices. B. Braun preparation devices with NRFit[®] connectors are designed to reduce risks of wrong route medication errors and particulate contamination from the very beginning in Neuraxial and Regional Anaesthesia procedures.





Products with NRFit® connectors

PREPARATION: DRAWING-UP DEVICES, FILTER AND CONNECTOR

Products with NRFit® connectors

APPLICATION: SYRINGES AND PUMP DISPOSABLES

APPLICATION



Sterifix® filter needle

Equipped with a 5 µm filter, Sterifix[®] filter needle allows for filtering particles during the injection or the withdrawal of medication for Regional Anaesthesia.



Sterifix[®] filter straws

Sterifix[®] filter straws for Regional Anaesthesia with a 5 µm integrated filter allow for the withdrawal of solutions whilst filtering particles.



Perifix[®] filters for Regional Anaesthesia are pressure resistant up to 7 bar. In combination with Perifix[®] PinPad, a self-adhesive fixation device, they can easily be attached to the patient's skin.



Perifix[®] catheter connector

Perifix[®] catheter connectors are available in two sizes (19G and 20/24G). A viewing window allows for catheter insertion control to ensure successful connection.



NRFit[®] syringe caps and NRFit[®] stoppers

NRFit[®] syringe caps are a single sterile solution for storage and/or transport alongside our Omnifix[®] portfolio. NRFit[®] stoppers are there to close our NRFit[®] filter or Perifix[®] catheter connector.



Omnifix® 1-50 ml

Omnifix[®] 3-piece syringes are available in a broad range of sizes in NRFit[®] Slip (1ml-20ml) and NRFit[®]Lock (3-20ml) formats plus a 50 ml syringe with NRFit[®] Lock connector can be used in combination with compatible syringe pumps.

PRESCRIPTION

PATIENT ACCESS



The method of drug application depends on the chosen technique of anaesthesia and on the selected postoperative pain management approach. Different options require dedicated systems. Whether the chosen method of delivery is a bolus or a continuous application, the variety of B. Braun's portfolio ensures flexibility.



The yellow product colour coding of syringes and lines helps to visually differentiate between regular and NRFit[®] dedicated equipment.

Dedicated pump disposables with NRFit[®] connectors are pressure resistant and suitable for use with compatible electronic pumps.



Original Perfusor® Line

The Original Perfusor® Line equipped with the NRFit® connector enables compatibility to NRFit® syringes for pump applications. The translucent yellow tubes help to visually differentiate from other lines.



Infusomat® Space Lines

Dedicated Infusomat[®] Space Lines have a piercing spike and an NRFit[®] patient connector. The translucent yellow tubes help to visually differentiate from other lines.

DISCHARGE MANAGEMENT

Regional Anaesthesia Products with NRFit[®]

Product specifications

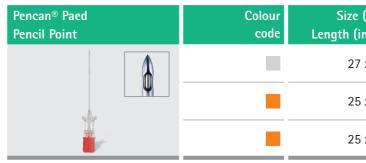
SPINAL NEEDLES

Spinocan® Quincke	Colour code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
		29 x 3 ¹ / ₂ "	0.35 x 88		4501900N-01*
		27 x 3 ¹ / ₂ "	0.40 x 88		4503902N-01
		26 x 3 ¹ / ₂ "	0.45 x 88		4502906N-01
		25 x 3 ¹ / ₂ "	0.50 x 88		4505905N-01
		22 x 1 ¹ / ₂ "	0.70 x 40	25	4507401N-01
		22 x 3"	0.70 x 75	25 -	4507754N-01
		22 x 3 ¹ / ₂ "	0.70 x 88		4507908N-01
		20 x 3 ¹ / ₂ "	0.90 x 88		4509900N-01
		19 x 3 ¹ / ₂ "	1.10 x 88		4501195N-01
		18 x 3 ¹ / ₂ "	1.30 x 88		4501390N-01
	Long Length				
.		29 x 4 ³ / ₄ "	0.35 x 120		4501918N-01
		27 x 4 ³ / ₄ "	0.40 x 120		4502140N-01
		25 x 4 ³ / ₄ "	0.50 x 120	25	4505913N-01
		$22 \times 4^{3}/_{4}$ "	0.70 x 120		4506090N-01
		22 x 6″	0.70 x 150		4506095N-01

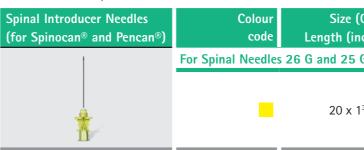
*With Spinal Introducer Needle

Pencan® Pencil Point	Colour code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
		27 x 3 ¹ / ₂ "	0.40 x 88		4502027N-01 4502051N-01*
		25 x 3 ¹ / ₂ "	0.50 x 88	25	4502019N-01 4502043N-01*
		22 x 3 ¹ / ₂ "	0.70 x 88		4502035N-01
	Long Length				
		27 x 4"	0.40 x 103		4502124N-01*
		27 x 4 ³ / ₄ "	0.40 x 120	05	4502132N-01
		25 x 4"	0.50 x 103	25	4502116N-01*
		25 x 6.1"	0.50 x 156		333877N-01

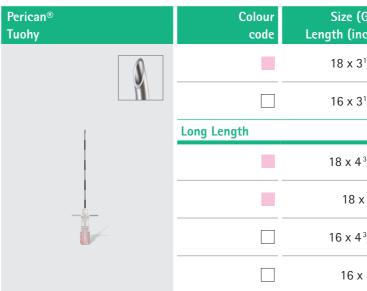
SPINAL NEEDLES



INTRODUCER (COMPATIBLE WITH BOTH LUER AND NRFIT)



EPIDURAL NEEDLES





(G)/ nch)	ø/Length (mm)	Units per box	Code no. (REF)
x 2"	0.40 x 50		4502175N-01
x 1″	0.50 x 25	25	4502167N-01
x 2″	0.50 x 50		4502159N-01

(G)/ nch)	ø/Length (mm)	Units per box	Code no. (REF)
G			
1 ³ /8″	0.90 x 35	25	4505000

(G)/ nch)	ø/Length (mm)	Units per box	Code no. (REF)
3 ¹ / ₄ "	1.30 x 80	25	4512383N-01
3 ¹ / ₄ "	1.70 x 80	25	4512782N-01
4 ³ /4"	1.30 x 120		4512453N-01
x 6″	1.30 x 150		4512200N-01
4 ³ /4"	1.70 x 120	25	4512785N-01
x 6″	1.70 x 150		4512784N-01

(G)/ nch)	ø/Length (mm)	Units per box	Code no. (REF)
x 2"	0.73 x 50		4502078N-01
x 2"	0.9 x 50	25	4502094N-01

Product specifications

EPIDURAL CATHETERS

Perifix [®] catheter	Catheter ø outer/inner/ Length (mm) (G)		· · · · · · · · · · · · · · · · · · ·	Code no. (REF)
	Perifix [®] Soft Tip cathete	r (with 3 lateral eyes)		
	0.85/0.45/1000 (20)	18	25	4515048N-01
	Perifix [®] ONE catheter (w	vith 6 lateral eyes)		
	1.05/0.60/1000 (19)	16	25	45132581N-01
	0.85/0.45/1000 (20)	18	23	45131501N-01

ACCESSORIES & COMPLEMENTARY PORTFOLIO

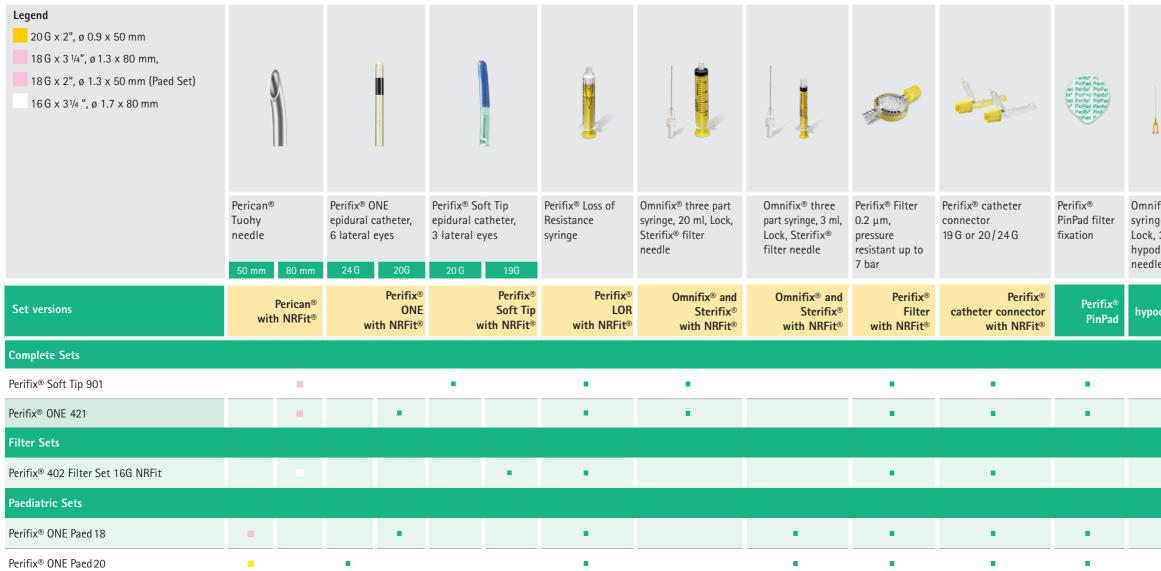
45502501
4550250N
4550200N
le no. (REF)
4550404N
le no. (REF)
513801N-01
513800N-01
le no. (REF)
515501N-01
le no. (REF)
4515510
le no. (REF)
4511200
4511201

ACCESSORIES & COMPLEMENTARY PORTFOLIO

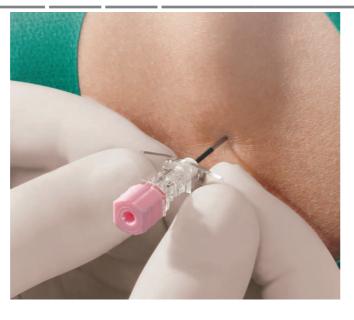
Infusomat [®] Space Line		Length (cm)	Units per box	Code no. (REF)
		300	100	8700132SP
Original Perfusor® Line		Length (cm)	Units per box	Code no. (REF)
O		200	25	8722865
Omnifix [®]	Description	Filling volume (ml)	Units per box	Code no. (REF)
		1		9164001
		3	_	4616003
	Slip NRFit®	510	100	4616005
		20	_	4616021
4		3		4617003
		5	_	4617006
	Lock NRFit®	10	100	4617014
		20		4617021
***		50		4617508F-01
Perifix [®] Loss-of-Resistance (LOR) Syringe NRFit [®]	Description		Units per box	Code no (REF) NRFit®
	Perifix [®] LOR Syringe, Slip	o NRFit®	25 —	4637110
	Perifix [®] LOR Syringe, Loc	Perifix [®] LOR Syringe, Lock NRFit [®]		4638110
NRFit® syringe caps NRFit® stoppers	Description		Units per box	Code no (REF)
-	Syringe cap with NRFit®	connector	25	4517501N
	Stopper with NRFit [®] con	nector	25	4517502N

Product specifications

EPIDURAL ANAESTHESIA SETS







Adapting to the unique anatomical challenges of each patient, it is important to use the appropriate needle and accessories.

B. Braun focuses on

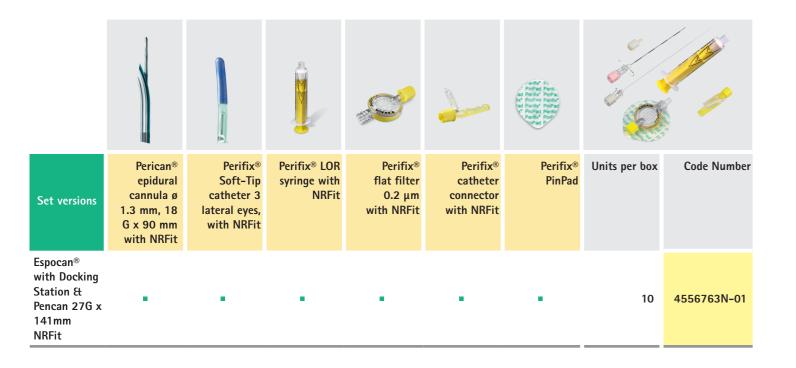
QUALITY & PRACTICALITY

fix [®] three part ge, 3ml, Luer 3 Luer dermic es*	* Sterican [®] needles 25 G, 16 mm, ø 0.5 mm 21 G, 40 mm, ø 0.8 mm 18 G, 40 mm, ø 1.2 mm Caution: Hypodermic needles (for skin infiltration) stay Luer				
Omnifix® and dermic needles with Luer	Units per box	Code no. (REF) NRFit®			
•	10	4510305N-01			
•	10	4510305N-01 45142111N-01			
•	10				
•	10				
•		45142111N-01			
•	10	45142111N-01			
•		45142111N-01 4514025N-01			

Notes

Product specifications

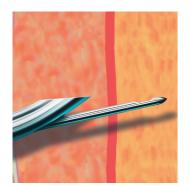
SETS FOR COMBINED SPINAL AND EPIDURAL ANAESTHESIA (NRFit®)

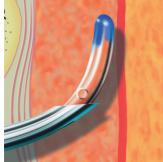


Combined Spinal-Epidural Anaesthesia (CSE):

THE BENEFITS

of Spinal and Epidural Anaesthesia in the Espocan® Sets









Special Pencan Tuohy Epidural needle with additional back eye in the Tuohy curve plus a Pencan Spinal needle with sleeve to centre the needle inside the epidural Tuohy needle.

- Tip of the spinal needle exits straight through the back eye of the Tuohy needle
- Docking system to hold the spinal needle in place
- Sleeved spinal needle for smooth exit through the back eye

1 Markings on the Spinal Needle

The markings on the spinal needle show, when the tip leaves the back-eye.

2 USER BENEFITS

- The docking system allows rotation of the spinal needle even in the fixed position. Avoids the difficult and uncomfortable finger grip to steady fix the spinal needle in position
- The docking system ensures fixation of the spinal needle inside the tuohy needle after successful dura puncture and injection of the local anaesthetic

Product specifications

SINGLE-SHOT BLOCK NEEDLES

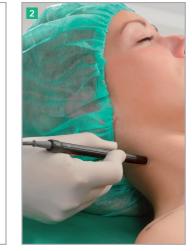
Ultraplex [®] 360	Size (G)/ Length (inch)	ø/Length (mm)	Bevel (°)	Units per box	Code no. (REF)
	22 x 1 3/8"	0.70 x 35			4892603NR-01
	22 x 2"	0.70 x 50			4892605NR-01
	22 x 3 1/8"	0.70 x 80	30	25	4892608NR-01
	20 x 4"	0.90 x 100			4892610NR-01
	20 x 6"	0.90 x 150			4892615NR-01
Stimuplex [®] Ultra 360 [®]	Size (G)/ Length (inch)	ø/Length (mm)	Bevel (°)	Units per box	Code no. (REF)
Stimuplex [®] Ultra 360 [®]					
Stimuplex [®] Ultra 360 [®]	Length (inch)	(mm)			(REF)
Stimuplex [®] Ultra 360 [®]	Length (inch) 22 x 1 %"	(mm) 0.70 x 35			(REF) 4892503NR-01
Stimuplex [®] Ultra 360 [®]	Length (inch) 22 x 1 3%" 22 x 2"	(mm) 0.70 x 35 0.70 x 50	(º)	per box	(REF) 4892503NR-01 4892505NR-01

ACCESSORIES (COMPATIBLE WITH BOTH LUER AND NRFit®)

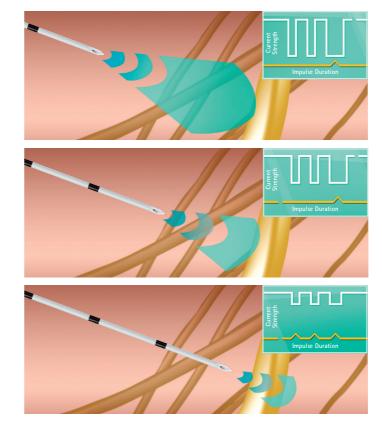
Nerve Stimulation	Description	Units per box	Code no. (REF)
	Stimuplex [®] HNS 12 Nerve Stimulator for Stimuplex [®] , Ultraplex [®] and Contiplex [®] needles	1	4892098
Nerve Stimulator Accessories	Units per box	Code no. (REF)	
Battery cover for Stimuplex® H		4892094	
Carrying Case for Stimuplex® I		4892095	
Test resistor for Stimuplex® HN	1	4892096	
Knob for special handling	I	4892283	
Stimuplex [®] Pen for cutaneous		4892099	
Electrode Cable for Stimuplex®		4892070	







 1 Stimuplex® HNS 12 with SENSe
 2 Stimuplex® Pen for cutaneous nerve mapping



B.Braun Nerve Stimulator – Stimuplex[®] HNS 12 with SENSe What is SENSe?

In practice, marginal needle movements often lead to losing the muscle twitch. The SENSe technology (Sequential Electrical Nerve Stimulation) is a sequence of two fixed impulse durations of 0.1 ms along with a third longer impulse duration.¹¹ Most traditional nerve stimulators emit two very short pulses every second. That's because short pulses improve accuracy or specificity when closer to the nerve. The downside is that sensitivity, or the availability to elicit visual feedback at a distance from the nerve, is lost. SENSe technology increases both sensitivity and specificity by adding a third, longer pulse. This results in eliciting a motor response even when the needle is far from or not aimed directly at the nerve and requires less adjustment to the amperage control while retaining visual feedback.

USER BENEFITS

- Stimulation with SENSe-technology designed for more efficient nerve stimulation ¹¹
- Menus designed for easy control of sound and other settings
- Acoustic signals inform the user of any relevant deviations

As the needle is advanced, SENSe generates two short and one long pulse. From the alternating sequence of three impulses, the third longer impulse stimulates the nerve already at a distance. One muscle twitch is visible and indicates that the needle is directed to the nerve.

The stimulation needle is further advanced towards the nerve while SENSe maintains the motor response. Current strength adjustments lead to definite reductions of the third impulse.

At the threshold level of approximately 0.5 mA three muscle twitches are visible as all three impulses stimulate the nerve.

Product specifications

SETS FOR CONTINUOUS NERVE BLOCKS

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				Contiplex [®] C	Contiplex® S Ultra 360	Contiplex® Tuohy Ultra 360	Contiplex® ONE Catheter (6 lateral openings, closed tip, open tip for Contiplex® C)	20G Perifix® ONE Catheter (6 lateral eyes, closed tip)	Perifix® Catheter Connector 19G or 20/24G	Perifix [®] PinPad filter fixation	Perifix® Filter 0.2 µm, Pressure resistant up to 7 bar	Omnifix® syringe 5 ml Caution: Hypodermic needles (for skin in- filtration) stay Luer		
Set Specifications	Size (G)	(mm)	Length (mm)		Bevel (*)	Tuohy Bevel	Contiplex [®] ONE Catheter Catheter over needle system (mm)		Perifix® Catheter Connector	Perifix® PinPad	Perifix® Filter	Omnifix®	Units per box	Code no. (REF) NRFit®
Luer and NRFit® Contiplex® C Sets														
Contiplex® C	25	0.53	190	15			188					-	5	4898115NR
Contiplex [®] C	25	0.53	190	30			188		•	•	•	-	5	4898130NR
Contiplex [®] S Ultra 360 [®] Sets														
Contiplex [®] S Ultra 360	18	1.3	50		20			400	•	•	· · ·	<u> </u>		4898650NR-27
Contiplex [®] S Ultra 360	18	1.3	100		20			1000		•		1.1	10	4898610NR-27
Contiplex [®] S Ultra 360	18	1.3	150		20			1000				1.1		4898615NR-27
Contiplex® Tuohy Ultra 360® Sets														
Contiplex [®] Tuohy Ultra 360	18	1.3	40			1.1		400	1.1	1.1	1.1	1.1		4898704NR-01
Contiplex [®] Tuohy Ultra 360	18	1.3	50			<u> </u>		400		<u> </u>	<u> </u>	<u> </u>	10	4898705NR-01
Contiplex [®] Tuohy Ultra 360	18	1.3	100			•		1000				1.1	IU	4898710NR-01
Contiplex® Tuohy Ultra 360	18	1.3	150			•		1000	•	•	•	•		4898715NR-01

REFERENCES

- 1. Joint statement on neuraxial connectors and ISO80369-6:2016, March 2017 www.safetyandquality.gov.au/wp-content/ uploads/2017/06/ANZCA-andCommission-position-statement-on-neuraxial-connectors-2017Mar.pdf
- 2. Barema: the Association for Anaesthetic and Respiratory Device Suppliers www.barema.org/
- 3.. GEDSA: Global Enteral Device Supplier Association http://stayconnected.org/neuraxial-nrfit/
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