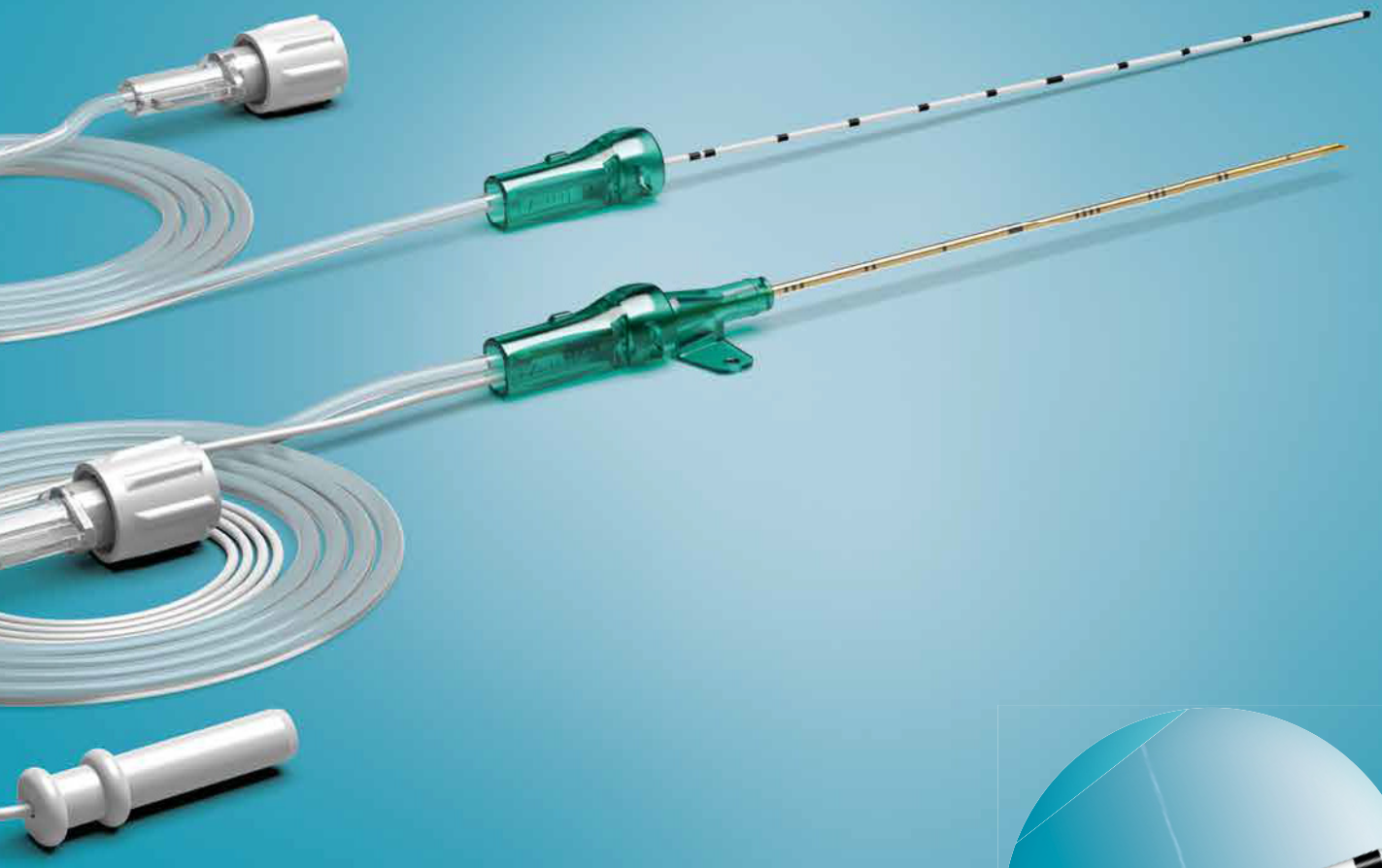
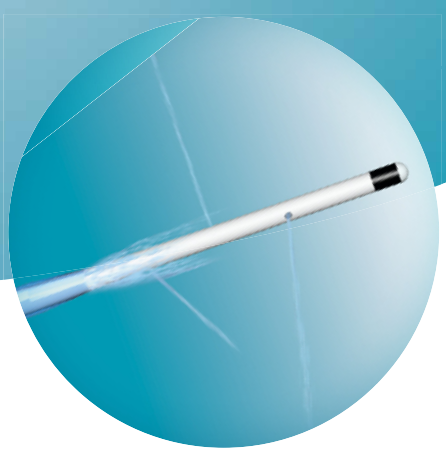
PERIPHERAL ANESTHESIA

E-Cath® II / E-Cath® II Plus

Continuous Nerve Blocks as Simple as a Single Shot Technique





Made in Germany

Products Distributed in Australia and New Zealand by SURIMEX

PAJUNK®

Quite Simple: Catheter Over Needle (CON) Technique in Three Steps

The E-Cath®/E-Cath® Plus system was developed in collaboration with Dr Ban Tsui.
It makes the CON Technique as simple as a Single Shot Technique. The CON Technique can offer increased added value, especially for the training of young anesthetists and for hospitals that do not work with continuous nerve blocks on a daily basis.
The new E-Cath II/E-Cath II Plus combines the best of clinical experience and the latest technical expertise.

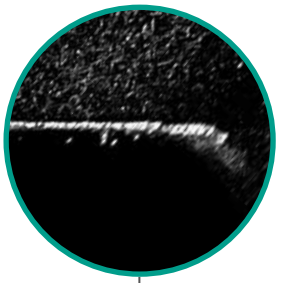
SonoPlex needle in indwelling catheter

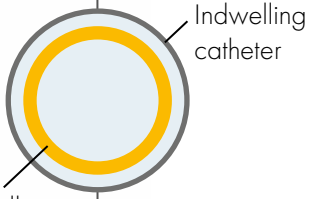
Indwelling catheter

E-Cath in indwelling catheter

1. **Ip V. H. Y. et al.** (2021). How I Do It: Technical report on surgically-initiated rectus sheath catheter using catheter-over-needle assembly. *The Canadian Journal of Urology*, 28 (5): 10871–10873.
2. **Ip V. H. Y. et al.** (2013). The catheter-over-needle assembly offers greater stability and less leakage compared to the traditional counterpart in continuous interscalene nerve blocks: a randomized, patient-blinded study. *Can. J. Anesth.*, 60: 1272–1273.

Self Priming System

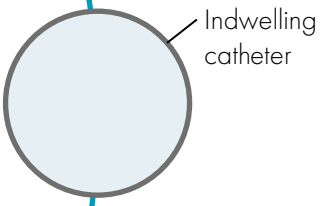




1. Placing the indwelling catheter using the SonoPlex needle

» *Improved ultrasound visibility of the needle shaft, needle tip, indwelling catheter and E-Cath.*

2. Removing the needle



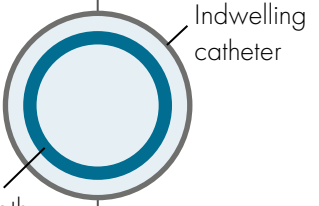
» *The indwelling catheter seals the puncture site.*

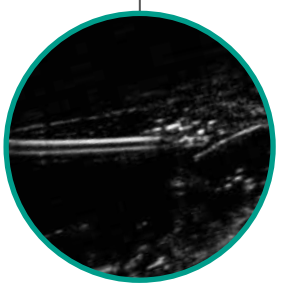
» *Tissue tension is maintained.*

» *The risk of leakage[1] and dislocation[2] is reduced.*

3. Placing the E-Cath using an indwelling catheter

» *The dual catheters increase kink stability.*





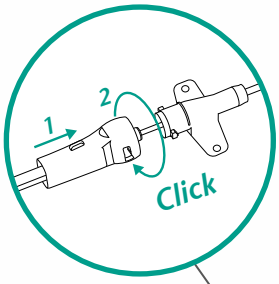
As Simple as a Single Shot

Secure Attachment

Integrated Injection Tube

It is permanently secured on the E-Cath® and needle hub:

» Injection takes place directly and safely via the injection tube, no additional handling required.
» Reduces the risk of leakage.

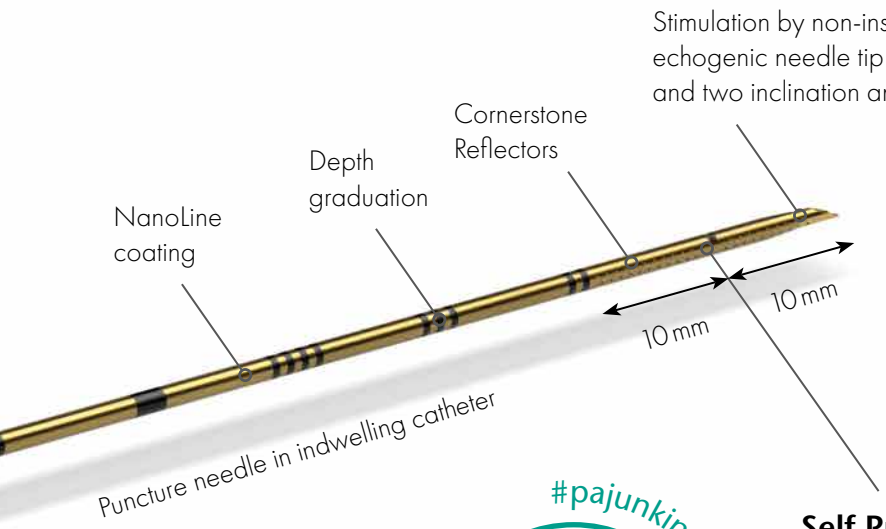


Integrated stimulation cable

Bayonet Lock

Ensures a secure connection between the indwelling catheter and the puncture needle and E-Cath:

» The puncture needle is ready for use as it is already preassembled in the set.
» Engagement can be verified by audible and tactile "click" feedback.
» It enables one-handed and ergonomic use of the E-Cath.

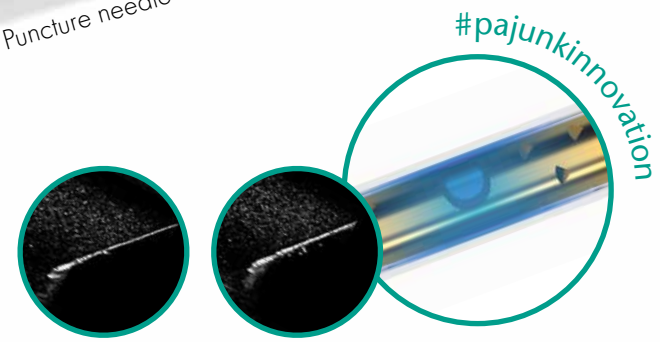


Precise Puncture and Position Control

Self Priming System

Anesthetic flows through the distal opening between the two Cornerstone segments and forms a fluid layer between the outer wall of the needle and the indwelling catheter:

» Echogenic properties of the needle shaft are enhanced.



Before **During**

Puncture needle and indwelling catheter before and during injection.

Comparison test in Blue Phantom, insertion angle 45°

Reduced Risk of Leakage and Dislocation

Sealed Puncture Site

The puncture site is sealed by the indwelling catheter as it has a larger outer diameter than the puncture needle:

» After removal of the puncture needle, the tension in the tissue is maintained.

» The risk of leakage[1] and dislocation[2] is reduced.

Two Catheter Layers

Together with the indwelling catheter, the E-Cath forms a stable and safe double lumen:

» This significantly supports the kink stability of the E-Cath.

» Contributes to a uniform flow of the anesthetic.

1. **Ip V. H. Y. et al.** (2021). How I Do It: Technical report on surgically-initiated rectus sheath catheter using catheter-over-needle assembly. *The Canadian Journal of Urology*, 28 (5): 10871–10873.
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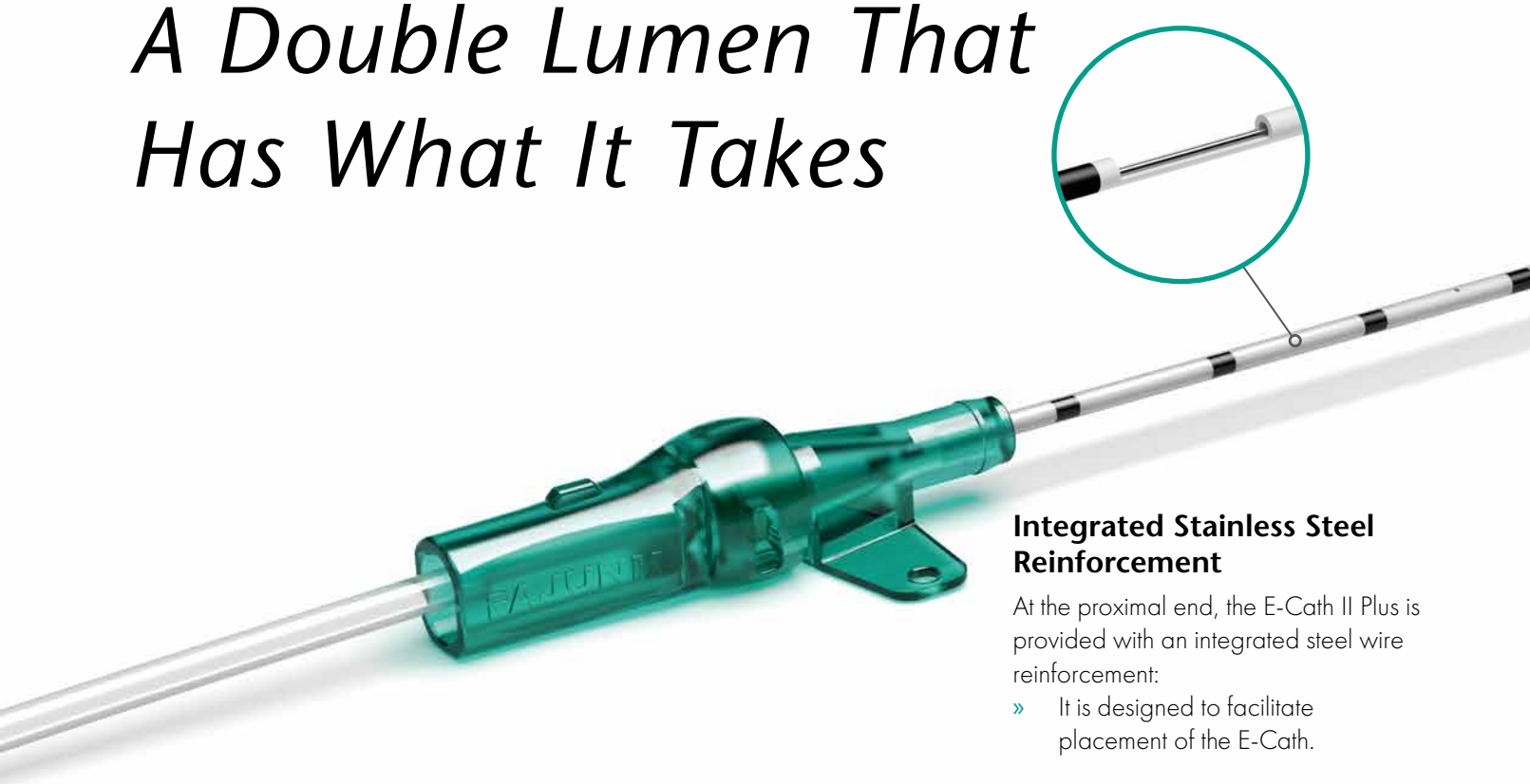
A Double Lumen That Has What It Takes



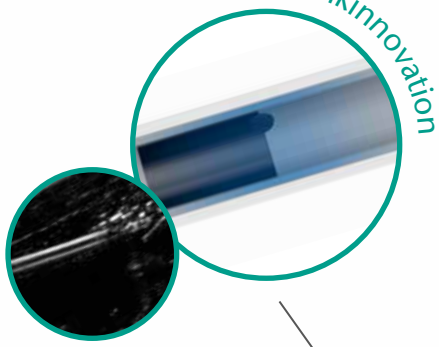
Integrated Stainless Steel Reinforcement

At the proximal end, the E-Cath II Plus is provided with an integrated steel wire reinforcement:

» It is designed to facilitate placement of the E-Cath.

Intelligent Catheter Design

#pajunkinnovation

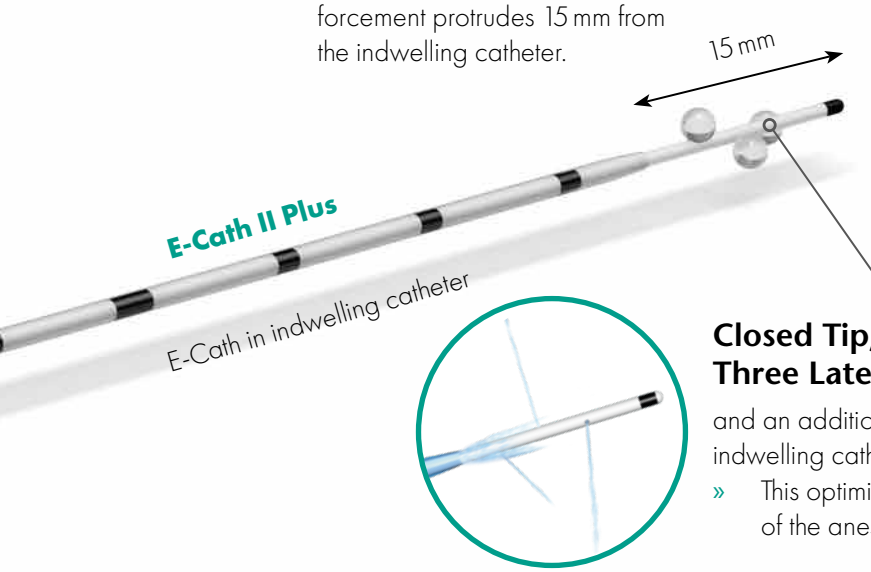


Self Priming System

As a result of the proximal opening, anesthetic also flows between the outer wall of the E-Cath and the inner wall of the indwelling catheter during injection:

» This minimizes artifacts and improves ultrasound visibility.

E-Cath Plus with steel wire reinforcement protrudes 15 mm from the indwelling catheter.



Closed Tip, Three Lateral Openings

and an additional outlet at the end of the indwelling catheter:

» This optimizes the 360° distribution of the anesthetic.

E-Cath protrudes 2 mm from the indwelling catheter.

Distal Opening

and an additional outlet at the end of the indwelling catheter:

» Enables continuous flow of the anesthetic, even if the distal opening is blocked.

» This improves 360° distribution of the anesthetic.

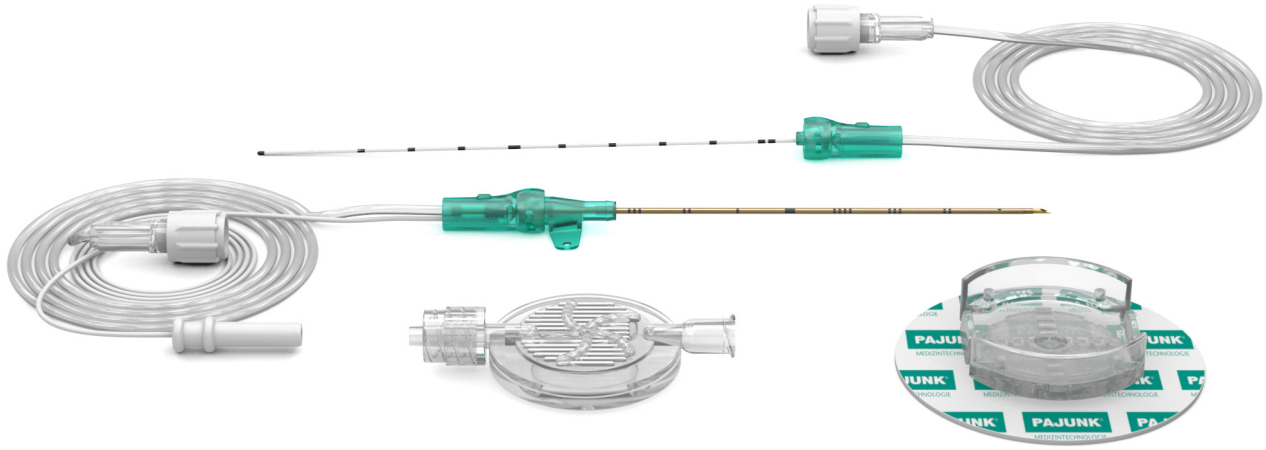
Simplifies block extension, reduces the risk of dislocation:

- The E-Cath is firmly connected to the indwelling catheter and therefore cannot migrate.
- Position control is possible at any time by ultrasound.
- Thanks to its extended tip and the three lateral openings, the E-Cath II Plus can compensate for minor tissue movements.

ISO LUER ISO NRFit®

Also available in NRFit®

E-Cath II & E-Cath II Plus



E-Cath II

Needle with Cornerstone Reflectors with SonoPlex II, indwelling catheter and E-Cath with stainless steel reinforcement starting at the proximal end, protruding 2mm from indwelling catheter

Item no.	SonoPlex II	Indwelling catheter	Working length: Indwelling catheter + E-Cath II	Working length: Protruding length	E-Cath Item no (superseeded)	PU	FixoLong + filter
301185-40E	Facet 20G	18G x 50mm	20G x 52mm	2mm (1 central eye)	201185-40E	10	•
311185-40E	Facet 20G	18G x 80mm	20G x 82mm	2mm (1 central eye)	211185-40E	10	•
361185-40E	Facet 20G	18G x 100mm	20G x 102mm	2mm (1 central eye)	241185-40E	10	•

E-Cath II Plus

Needle with Cornerstone Reflectors with SonoPlex II, indwelling catheter and E-Cath with stainless steel reinforcement starting at the proximal end, protruding 15mm from indwelling catheter

Item no.	SonoPlex II	Indwelling catheter	Working length: Indwelling catheter + E-Cath II Plus	Working length: Protruding length	E-Cath Plus Item no (superseeded)	PU	FixoLong + filter
301185-41E	Facet 20G	18G x 50mm	20G x 65mm	15mm (3 lateral eyes)	201185-41E	10	•
311185-41E	Facet 20G	18G x 80mm	20G x 95mm	15mm (3 lateral eyes)	211185-41E	10	•

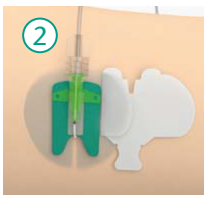
FixoCath

Wound dressing and fixation at the same time and is applied directly at the exit point. Here also a maximum of mobility for the patient is ensured.

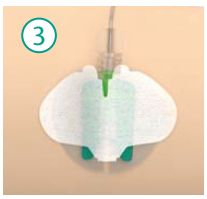
Fixation of the E-Cath with FixoCath

Item no.	Description	PU
001151-37Z	Catheter Fixation Device	10

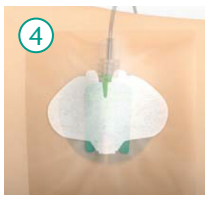
Adhesive strip of the FixoCath is removed and applied at the patient



Catheter is placed at the center of FixoCath



Adhesive strip of the overlapping patch is withdrawn and the catheter is fixed



FixoCath can be fixed additionally with a translucent patch

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