

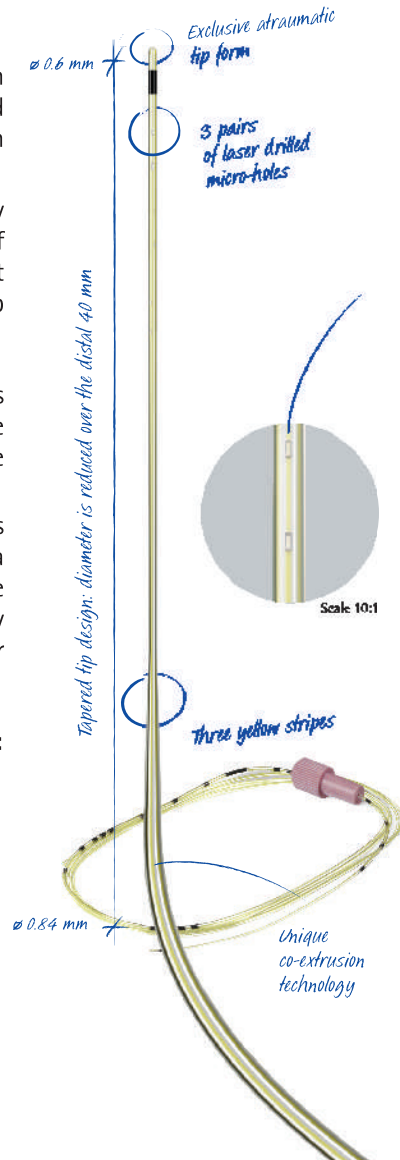
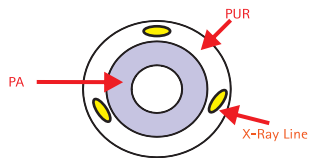
The number ONE is yellow

Perifix® ONE catheter is based on the novel tip configuration and leading edge extrusion technology of the catheter body.

The diagram impressively demonstrates the superiority of the unique Perifix® ONE concept and in particular its innovative tip design.

- The inner catheter tube is made out of a pure polyamide (PA) core, providing the needed stiffness.
- The outer catheter tube is designed out of a polyurethane (PUR) surface which provides the necessary softness to the catheter for placement inside the body.

2-D illustration of Perifix® ONE:



Perifix® ONE

The outstanding regional anesthesia catheter



Frequently Asked Questions

B|Braun Medical (India) Pvt. Ltd.

Unit-I, 5th Floor | The IL&FS Financial Centre | BKC | Bandra (E) | Mumbai - 400 051.
Tel. : +91 - 6668 2222 | Fax : + 91 - 6668 2121 | E-mail : hc.marketing@bbraun.com

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Frequently Asked Questions

Regional Anesthesia

■ Perifix® ONE catheter (body) feels too rigid

- The catheter body needs to have a certain rigidity to be easily inserted. The important point is that the catheter tip is much softer due to its reduced diameter. The catheter body will change from stiff to soft during the indwelling time in the body.
- The advantage of the co-extruded polyurethane/polyamide catheter body is the easy insertion because the catheter exhibits the same stiffness (see bending stiffness figures) as our current Perifix® Standard and SoftTip catheter tubing. Body temperature helps the catheter to soften after insertion, i.e. it becomes a soft catheter.

■ Perifix® ONE catheter tip is too sharp and may cause paresthesia or vessel injuries

- The catheter tip is elongated & tapered up to 4cm & is of nicely rounded shape. This 4cm part of the catheter is more flexible than the shaft hence the pushing force does not reach the tip of the Perifix ONE catheter. Thus virtually no force is transmitted by the catheter tip to the dura while threading the catheter through the epidural needle.
- It allows the tip to find its best atraumatic way through the tissue in the epidural space.
- Furthermore, the co-extruded polyurethane/polyamide material allows the catheter tip to soften when reaching body temperature.



■ The catheter becomes too soft when held in the closed hand

- Due to the catheter's memory (coiled) it is easy to keep it under control within the sterile field and there is no need to hold it in the closed hand.
- During the procedure the catheter is usually not held in the closed hand so enough rigidity for insertion is ensured. The catheter becomes soft inside the body.
- Don't hold it so long!

■ The catheter does not have enough time to warm up (and though becomes soft) during insertion

- A certain stiffness is needed for easy threading. The tapered tip ensures an atraumatic insertion of the catheter into the body. The desired effect is that the catheter softens quickly when getting into contact with the warm body tissue.

■ Perifix® ONE tears easily

- The catheter breaks when pulled quickly and strongly (creating high force). During removal of the catheter one should pull slowly and with low force only. Catheters difficult to remove should not be removed with high force. Instead, the position of the patient should be changed and a low steady pull should be applied (see literature).
- In case an epidural catheter is pulled very quick, there is a high risk of causing injuries. In such case it is for sure better if the catheter breaks.

■ What if blood aspiration would not be seen due to yellow color of the catheter?

- The catheter is actually made from a clear material with yellow radio-opaque stripes and observing blood is easily possible. In addition, blood can be observed through the syringe.
- We have proven that blood as well as even clear liquid can be seen easily.
- However, a test dose is still mandatory anyway.

■ How is the kink resistance?

- Very good. Even if the catheter is tied in a knot it is not occluded. Liquids can still be injected.
- The unique polyurethane/polyamide material exhibits the same high quality kink resistance as our previous Perifix® catheters.

■ Is the catheter radio-opaque?

- Yes, it contains three radio-opaque (barium sulfate) yellow stripes which can be seen except under certain conditions, e.g. behind bone (shadow) or within soft tissue layers (over exposure).
- It is radio-opaque due to the three yellow stripes made from barium sulfate. Due to the small diameter, epidural catheters are difficult to be seen in X-ray pictures anyway. We will not advertise radio-opacity.

