

Always
a step
ahead...

NeuroTherm
RF for Pain Management

Product	Description	Length (To be used with)
SMK C 5	22 G, active tip 4 mm	5 cm electrode
SMK C10 - 2	22 G, active tip 2 mm	10 cm electrode
SMK C10 - 5	22 G, active tip 5 mm	10 cm electrode
SMK C10 - 10	22 G, active tip 10 mm	10 cm electrode
SMK C15 - 2	20 G, active tip 2 mm	15 cm electrode
SMK C15 - 5	20 G, active tip 5 mm	15 cm electrode
SMK C15 - 10	20 G, active tip 10 mm	15 cm electrode
SMK C15 - 15	20 G, active tip 15 mm	15 cm electrode
EU only: All SMK's are also available with a Siliconized layer (SIL)		
CXE - 6	23 G, active tip 5 mm	60 mm
CXE - 10	23 G, active tip 5 mm	100 mm
CXE - 15	23 G, active tip 5 mm	150 mm
CXE - 20	23 G, active tip 5 mm	200 mm
CX - 6	23 G, active tip 1 mm	60 mm
CX - 10	23 G, active tip 1 mm	100 mm
RCN - 6	24 G, uncoated	60 mm
RCN - 10	22 G, uncoated	100 mm
Cdisk	20 G / 23 G	144 mm / 177 mm

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NeuroTherm is a registered trademark of NeuroTherm Inc.

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SMK-system is a temperature monitoring system. It consists of a disposable cannula, to be used in conjunction with an RF-electrode. The cannula is insulated by a coating except for the distal part, which is called the active tip. The system is available in 5, 10 (22G) and in 15 cm length (20G). The SMK C5 has a 4 mm tip, whereas the SMK C10 has a 2, 5 or 10 mm tip. The SMK C15 is available with a 2, 5, 10 or 15 mm active tip.

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Cotop Needles SMK-system

SMK C5 (to be used with an RF-electrode)
length 51 mm, 22G, active tip 4 mm
For procedures in the cervical region.



SMK C10 (to be used with an RF-electrode)
SMK C10-2

length 100 mm, 22G, active tip 2 mm.
For the treatment of trigeminal neuralgia.

SMK C105 and **SMK C10-10**
length 100 mm, 22G, active tip 5 or 10 mm.
For procedures in the lumbar and thoracic region.



SMK C15 (to be used with an RF-electrode)
SMK C15-2

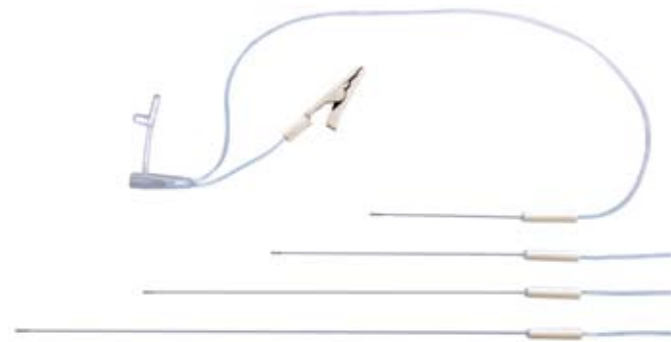
length 144 mm, 20G, active tip 2 mm.
For lesion of the communicating ramus in the lumbar region.

SMK C155
length 144 mm, 20G, active tip 5 mm. For lumbar sympathetic block.

SMK C15-10 and **SMK C15-15**
length 144 mm, 20G, active tip 10 or 15 mm.
For P(RF) Procedure of the disc in the lumbar region or sympathetic block (lumbar).



Distributed by:



CXE Needles

CXE Needles

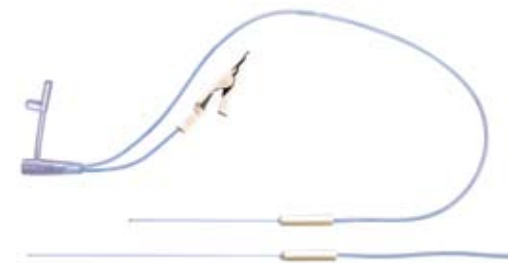
CXE Needles CXE – needles are mainly used for RF procedures of the medial branch. Tubing for electrical connections and for injection of local anesthetic solution is attached to the needle, so that the needle can be left undisturbed once it has been positioned. The CXE – system does not have the facility of temperature measurement. When used with continuous RF a voltage of 20 Volts should not be exceeded. This voltage generates a tip temperature of 70°–85°, depending on the composition of the surrounding tissue. When pulsed RF is used a voltage of 45 Volts is customary. This Voltage does not generate neuro-destructive temperatures at a setting of 2 x 20 msec/sec.

- Lengths 60 mm, 100 mm, 150 mm and 200 mm,
- 23G, active tip 5 mm.
- Electrical connection and injection port for local anesthetic solution, flexible tubing.
- For facet denervation in the cervical (CXE6), thoracic (CXE10) and lumbar (CXE15 and CXE20) regions.

CX Needles

This type is used for localising a nerve and blocking it by injection of local anesthetic solution. It is not suitable to be used for radiofrequency lesioning. The surface of the needle is insulated by a coating, enabling an efficient conduction of a weak current from an electronic device. The nickel lead to the needle tip passes through the gap between the double tubes and does not come into contact with the injected solution. A nerve is selected by electric stimulation or by concomitant use of fluoroscopy. It is then blocked by injection of local anesthetic solution through the needle.

- Lengths 60 mm (CX-6) and 100 mm (CX-10) 23G,
- active tip 1 mm.
- Electrical connection (for stimulation) and injection port for local anesthetic solution, flexible tubing.
- Not suitable for RF procedures.
- For regional anesthesia, epidural injections and local nerve blocks.

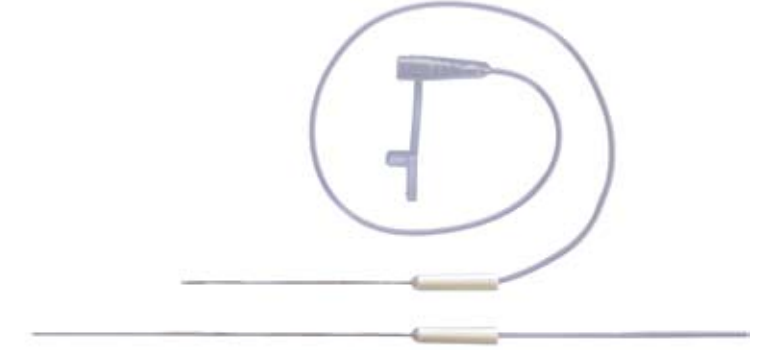


CX Needles

RCN Needles

RCN-needles are simple injection needles with plastic tubing and an injection port attached, to be used for diagnostic nerve blocks. The plastic tubing allows for direct vision of the spread of contrast medium, while X-ray exposure of the operator's hand is avoided. This way inadvertent intravascular injection or undesired epidural spread of the contrast medium can be instantly detected.

- **RCN-6** Length 60 mm, 24G
- **RCN-10** Length 100 mm, 22G
- Flexible tubing attached with injection port for solutions.



RCN Needles



Cdisk

A discography is a diagnostic procedure performed to view and assess the internal structure of a disc and to determine if it is a source of pain.

Our especially designed needle for this procedure, the Cdisk®, consists of two needles. This two-needle-technique minimizes the risk of infection. The outer needle (20G) with stylet is inserted under fluoroscopy until it is close to the annulus fibrosus. Then the stylet is removed and the inner needle (23G) is inserted into the disc (nucleus pulposus). Radiopaque dye is then injected, and this will demonstrate possible annular tears, scarring, disc bulges and changes in the nucleus of the disc, which might cause pain.

The inner needle has a luer lock to facilitate attachment of a syringe.