

# Ambu® Neuroline™ Concentric Needle

## DATASHEET

Ambu Neuroline Concentric needles have been designed and manufactured to give the greatest possible confidence and reliability during EMG procedures.

The needle features high quality design, including precision centering of the inner silver core so the recordings are both accurate and reliable. The needle is outstandingly sharp, which reduces pain during insertion.

The cannula itself is made of stainless steel, providing the optimum balance between strength and flexibility. Strength ensures that you quickly and efficiently penetrate the skin; flexibility facilitates fine adjustments within the target area.

All Ambu Neuroline Concentric needles feature a color-coded hub with a tactile index mark to indicate the recording position of the bevel. Moreover, the hub itself is ribbed and slightly contoured so that it can be firmly, yet comfortably, held between the thumb and index finger.

Easy-to-use, orientation-free connection to Ambu Neuroline Concentric cables

Ergonomic hub design

Color-coded hub provides a quick indication of needle size

Practical tactile index mark for easy identification of the bevel position

High signal quality with low impedance for strong, reliable recordings

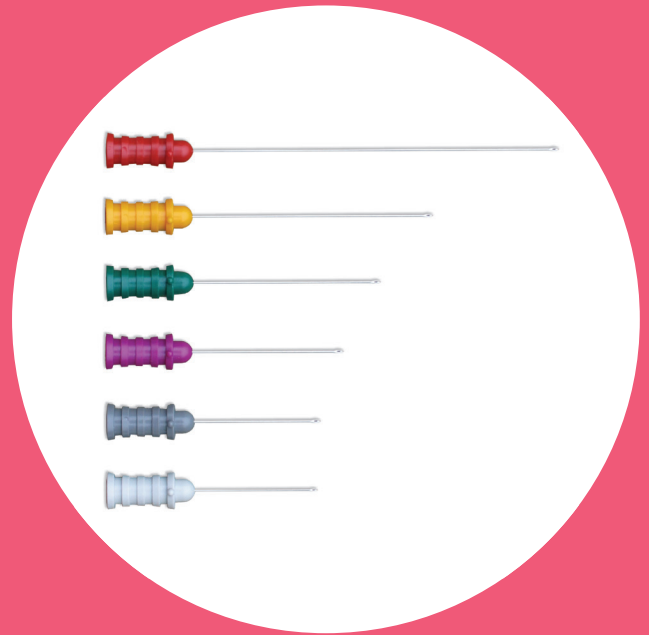
Available in six convenient sizes

Outstanding sharpness provides smoother skin penetration and greater patient comfort



Precision-centered silver wire ensures uniform, reliable recordings

Measuring area: 0.02 or 0.07 mm<sup>2</sup> depending on needle size



## KEY BENEFITS

Precision-centered silver sensor ensures uniform, reliable recordings

Outstanding sharpness provides smooth skin penetration and greater patient comfort

Ergonomic color-coded hub design for ease of use

Tactile index mark on hub for easy identification of the bevel position

Orientation-free connection to Ambu Neuroline Concentric cables, for ease of use

High signal quality with low impedance for strong, reliable recordings

Available in 6 convenient sizes

Recommended Application: Electromyography (EMG)

# Ambu

## SPECIFICATIONS

### Environment

PVC-free electrode	No
Electrode - made free of natural rubber latex	Yes
PVC-free lead wire	No
Lead wire - made free of natural rubber latex	Yes
PVC-free packaging	Yes

### MATERIALS

#### Electrode

Cannula	Stainless steel
Sensor	Silver
Hub	Copolymer of Acrylonitrile, Butadiene, and Styrene (ABS)
Insulator	Epoxy
Plastic protector	Polyethylene (PE)
Connection type	0.9 Pin-connector, brass/gold plated
Sterilization method	E-beam

#### Packaging

Pouches, inner layer	Polyamide (PA)
Pouches, outer layer	Polyethylene (PE)
Boxes	Cardboard

## AVAILABLE CONFIGURATIONS

Item No.	Length		Caliber		Shelf life in months (unopened/ open pouches)	Recording area mm <sup>2</sup>	Packaging quantity per pack
	mm	inch	mm	gauge no.			
740 25-30/25	25	1"	0.30	30G	36	0.02	25
740 25-45/25	25	1"	0.45	26G	36	0.07	25
740 30-35/25	30	1.2"	0.35	28G	36	0.02	25
740 38-45/25	38	1.5"	0.45	26G	36	0.07	25
740 50-45/25	50	2"	0.45	26G	36	0.07	25
740 75-65/25	75	3"	0.65	23G	36	0.07	25

## AVAILABLE CABLES

Item No.	Lead wire length		Shelf life in months (unopened pouches)	Needle socket mm	Connector	Packaging pouch
	cm	inch				
1741	100	40"	-	1.0	DIN(60130-9)	1
1742	200	80"	-	1.0	DIN(60130-9)	1

The reusable Ambu Neuroline Concentric cable has an orientation-free connection to the needle and fits most EMG equipment. The cable is shielded and made of strong flexible wire.

## DIRECTIONS

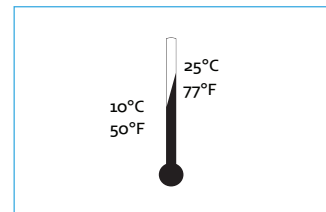
1. Peel the sterile pouch open and remove the single patient needle electrode.
2. Connect the single patient needle electrode to the equipment.
3. Remove the protective tube.
4. After use, dispose of the needle electrode in a designated container. The needle electrodes are for single patient use only. However, the electrodes may be used more than once on the patient during the examination.

## PRECAUTIONS

Single Patient EMG needle electrodes are for single patient use only. Do not re-use or re-sterilize.



Concentric cable



Storage temperature



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Questions? Contact your Ambu representative  
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