NeuroNexus

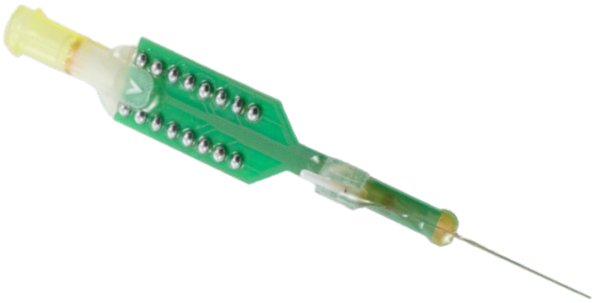
neuronexus.com

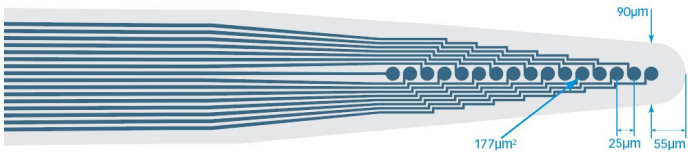
Drug Delivery Probes

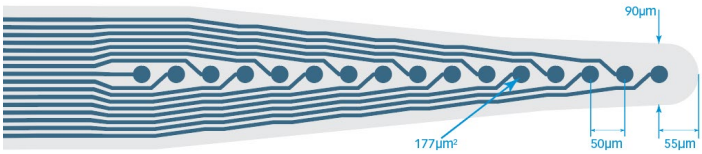
The drug delivery probe includes surface microelectrode array that gets mounted on a fluidic tube to combine drug delivery with electrophysiological recording. The fluid delivery port is at the tip of the probe. These probes are compatible with standard Luer-Lock fittings for interfacing with external injection pumps.

Advantages

- **Single-insertion:** Recordings at the injection site without having to move the cannula
- **Multi-modal:** Simultaneous electrophysiology before, during or after drug/fluid delivery
- **Luer lock connection:** simple and strong interfacing with syringe pumps
- **Diverse applications:** Packaging for acute and chronic use; optogenetics-enabled







Specifications

Electrode Site Material	Platinum
Total Probe Thickness	≈ 250 µm Stainless steel (OD: 230 µm, ID: 100 µm)
Fluidic Port	Stainless steel (OD: 230 µm, ID: 100 µm)
Fluidic Port Tip Angle	90° (Standard), 45° (Custom)
Implantable Length	10 -20 mm
Electrode Coverage	1.5 mm
Channel Count	16
Available Packages	D16, DM16, OD16LP, ODM16LP

Customizable Options

Both the electrode array portion and the fluidic port can be modified.

- Electrode site layout and site size customizable
- Implantable length from 10-20mm
- Device can be augmented with an optical fiber (above image)
- Fluid exit at the tip (standard) or elsewhere along the array

Contact us for your customization needs!

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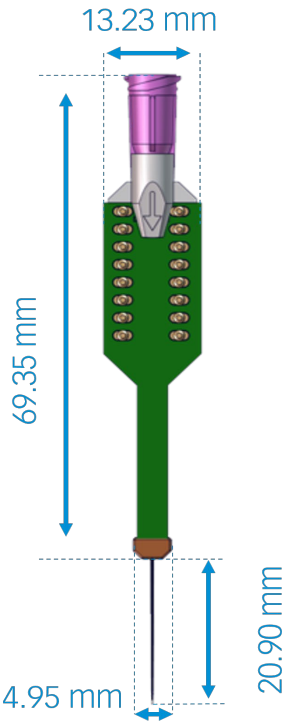
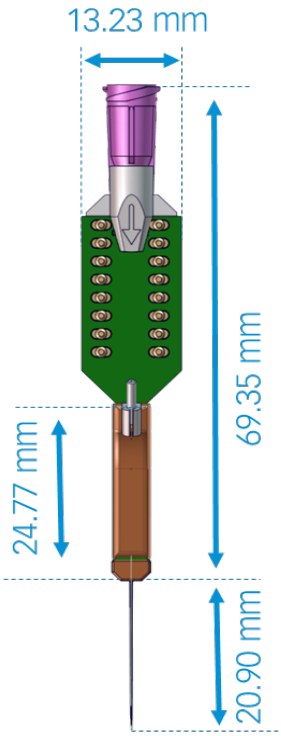
Drug Delivery Packages

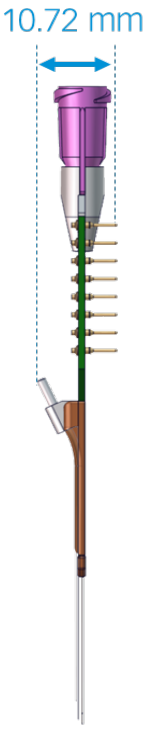
D16

Weight: 1.39 g



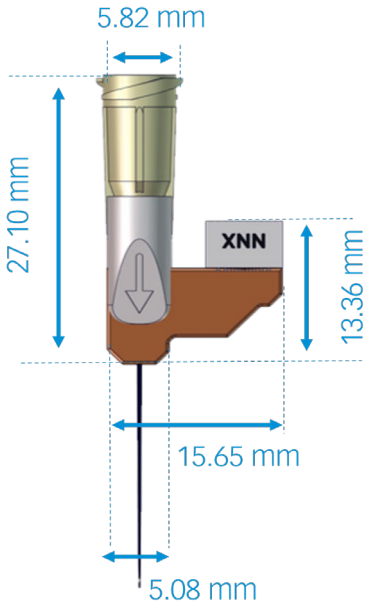
OD16LP



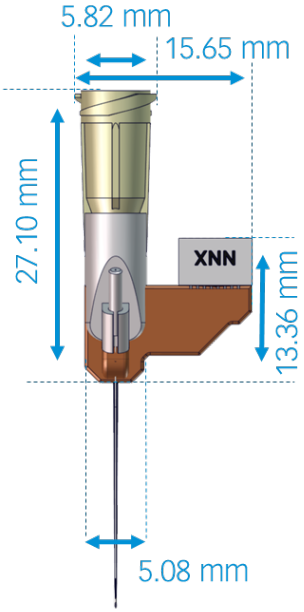


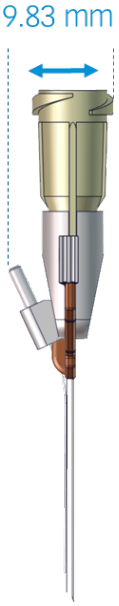
DM16LP

Weight: 0.40 g



ODM16LP





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