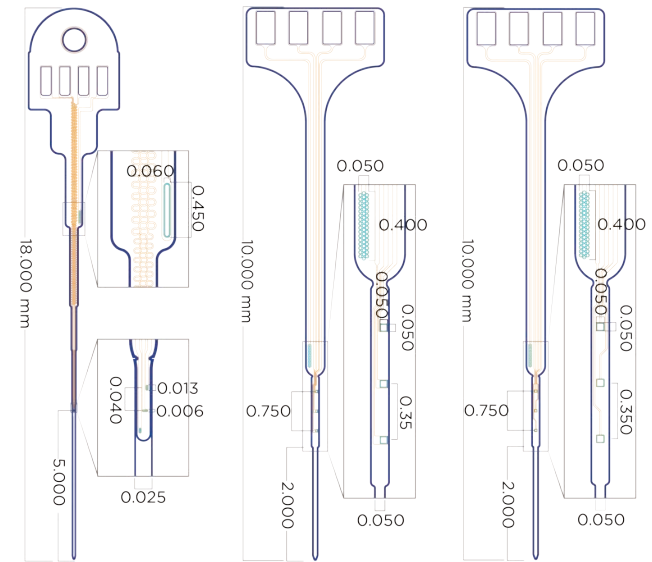
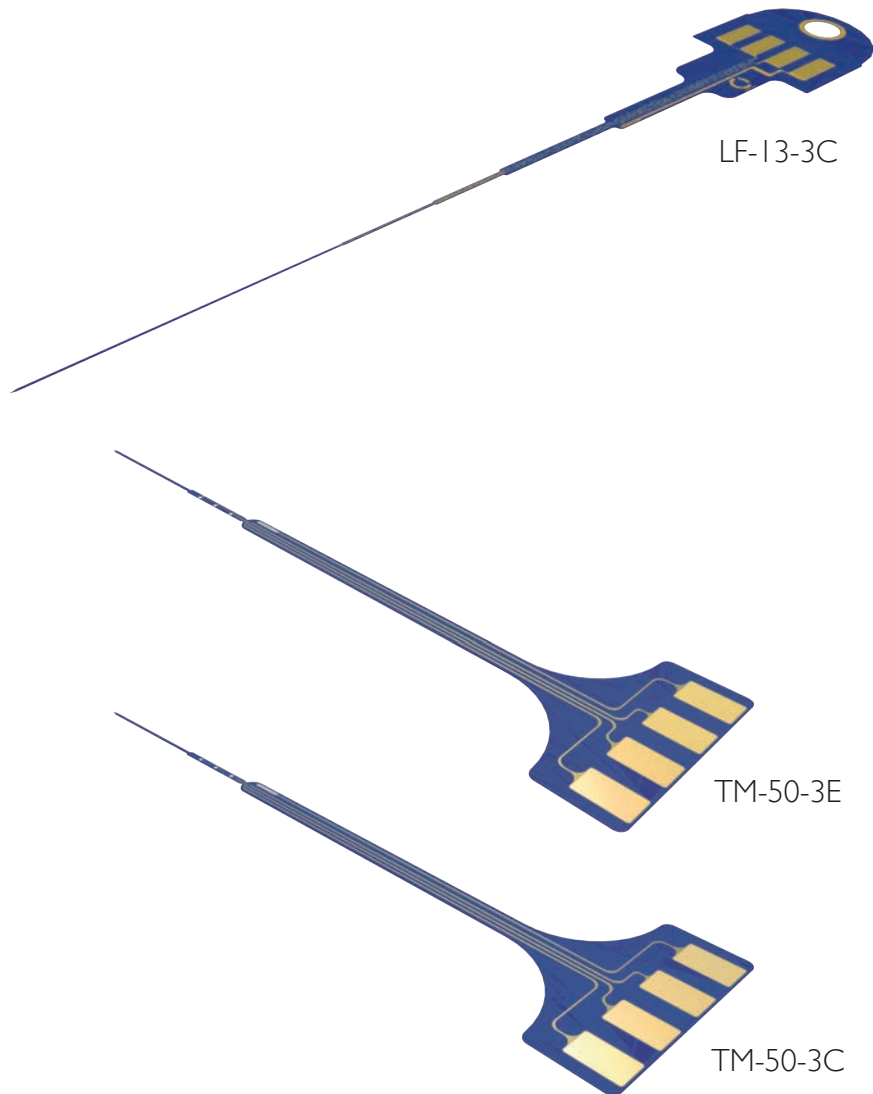


Intrafascicular Devices

Qualia Labs is currently developing a host of intrafascicular probes to reliably record and/or stimulate from larger peripheral multifascicular nerves. Designs include both longitudinal and transverse intrafascicular probes with one ground electrode and 3 electrodes positioned along the center or edge of the device.



	LF-13-3C	TM-50-3E	TM-50-3C
Device length	18.000 mm	10.000 mm	10.000 mm
Needle size	0.025 x 5.000 mm	0.050 x 2.000 mm	0.050 x 2.000 mm
Electrode sites	1 ground electrode 3 electrodes	1 ground electrode 3 electrodes	1 ground electrode 3 electrodes
Ground electrode size	0.060 x 0.450 mm	0.050 x 0.400 mm	0.005 mm x 0.400 mm
Ground electrode area	0.027 mm ²	0.200 mm ²	0.200 mm ²
Electrode size	13 x 6 μm	50 x 50 μm	50 x 50 μm
Electrode area	78 μm ²	2500 μm ²	2500 μm ²
Electrode pitch	0.040 mm	0.350 mm	0.350 mm
Electrode span	0.086 mm	0.750 mm	0.750 mm
Thickness	25 ± 5 μm	25 ± 5 μm	25 ± 5 μm
Standard electrode material*	SIROF	SIROF	SIROF
Connector	Bare Wires/ Plastics One/Omnetics	Bare Wires/ Plastics One/Omnetics	Bare Wires/ Plastics One/Omnetics

*All device electrodes can be custom-made using TiN, Au, Pt, or SIROF