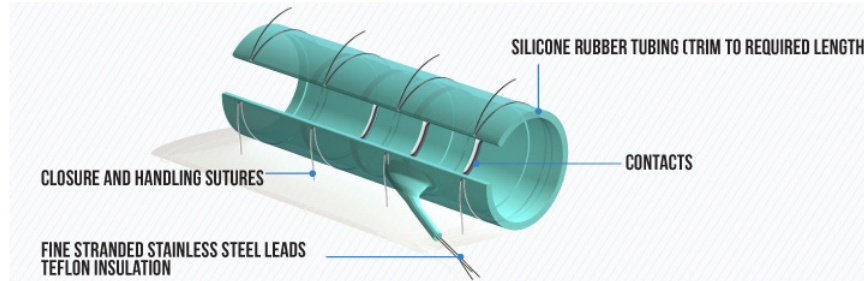




Nerve Cuff Electrodes

FOR ACUTE AND CHRONIC EXPERIMENTS FOR RECORDING AND STIMULATION



- For acute/chronic experiments
- 1-9 electrode sites
- 0.3 to 5mm ID available
- Platinum, Stainless Steel and Platinum/Iridium metal electrodes
- Made of bio-compatible materials
- Mechanically flexible
- Many geometric configurations and wide range of sizes available

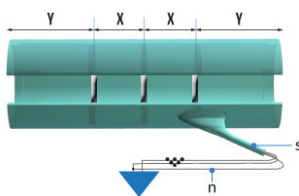
Nerve cuff electrodes are designed for reliable recording and/or stimulation of any peripheral nerve. They can be used acutely or for chronic implantation, with a wide selection of inner diameters available to be selected based on the nerve diameter. The nerve cuffs are designed to provide flexibility in electrode contact location for recording and stimulation protocols.

CONFIGURATIONS

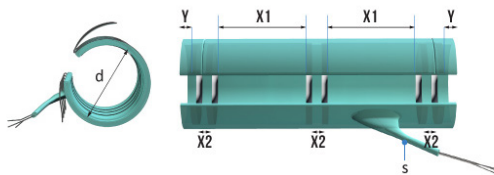
Nerve cuffs can be ordered in one of three configurations with a variety of dimensions for each one:

- Standard/Microcuff for most applications
- Tripolar for complex, tripolar recording/stimulation sets
- Concentric with multiple contacts in a single section of the nerve, allowing stimulation/recording at different locations of the same section.

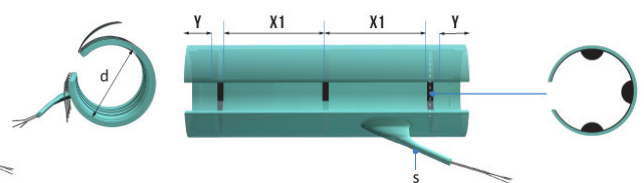
Standard/Microcuff



Tripolar



Concentric



d = Inner diameter

x = Spacing between contacts

n = Number of contacts



















y = Distance from the end of the contacts to the end of the cuff

s = Teflon insulated stranded Stainless Steel lead

NOTE: Typically, s=300mm long, and y=3 x the distance between contacts, to provide maximum isolation.

STERILIZATION

Nerve cuffs are made entirely of autoclavable materials – silicone rubber, Teflon¹ and stainless steel. They can be steam autoclaved without special precautions. If gas sterilization (EtO) is preferred, be sure to pack nerve cuffs in a gas-permeable bag and allow adequate outgassing time (at least 48 hours) to be sure all toxic gases have been desorbed from the silicone rubber.

Male Implant Connector	Description	Female Mating Connector
 MP-A11365-001	Male Omnetics connector - 8 channel, 10-pin 0.050" pitch	 MP-A11862-001
 MP-A12623-001	Male Omnetics connector - 8 channel, 10-pin, 0.050" pitch with latching mechanism	 MP-A12624-001
 MP-A8393-001	Male Omnetics connector - 8 channel, 10-pin, 0.025" pitch, 2 guide post	 MP-A8777-001
 MP-A79000-001 (NPS-09-DD-GS)	Male Omnetics connector - 7 channel, 9-pin, 0.050" pitch	 MP-A8776-001
 MP-A79014-001 (NPD-18-DD-GS)	Male Omnetics connector - 16 channel, 18-pin, 0.025" pitch, 6 guides posts	 MP-A79015-001
 MP-A70242-001	Male Omnetics connector - 16 channel, 18-pin, 0.025" pitch, 6 guides posts; Nickel free, MRI compatible	 MP-A79015-001
 MP-A79038-001 (NPD-18-DDGS)	Male Omnetics connector - 16 channel, 18-pin, 0.025" pitch, 2 guide posts	 MP-A79039-001
 MP-A79022-001 (NPD-36-DD-GS)	Male Omnetics connector - 32 channel, 36-pin, 0.025" pitch, 4 guide posts	 MP-A79023-001
 MP-A72312-001	Male Omnetics connector - 32 channel, 36-pin, 0.025" pitch, 4 guide posts; Nickel free, MRI compatible	 MP-A79023-001

AVAILABLE OPTIONS

	Metal Type	Inner Diameter
Microcuff Standard	125µm Stranded Stainless Steel	1.0 – 5.0mm
	100µm Platinum	1.0mm
	250µm Platinum*	1.5 – 5.0mm
	100µm Platinum	0.5 – 0.75mm
	50µm Platinum/Iridium	0.3mm

* Recommended for stimulation

ORDERING

Contact sales@wpiinc.com or 866.606.1974 for pricing and availability. When ordering, you will need to specify:

- Cuff type (Standard/microcuff, tripolar, concentric)
- (d) Inner diameter
- (n) Number of contacts (1–9)
- (x) Distance between contacts (mm)
- (y) Distance from the last contact to the edge of the cuff (mm)
- (s) Length of the stranded SS leads (mm)
- Type of metal electrode (125µm stranded Stainless Steel, 100µm Platinum, 250µm Platinum, 50µm Platinum/Iridium)