

TO SPECIFY FHC MICRONEUROGRAPHY NEEDLES:

CATALOG# **UN 123456 (iin)**



Microneurography Specifications Customers Initials, Electrodes If necessary

L022-20-06 Rev I0 2024-11-11

1 Configuration:

A: Active Needles, box of 12 insulated with selected tip impedance.
 R: Reference Needles, box of 12. No Insulation.
 P: Active and reference pairs, box containing 6 of each.
 X: Special/Specify

2,3 Electrode length in millimeters:

35mm standard, if not specified. See diagrams below for dimension definition.

4 Shank Diameter:

E: 0.005" (125µm)
 F: 0.008" (200 µm)
 G: 0.0010" (250µm)
 X: Special/Specify

5 Impedance:

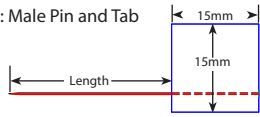
For active needles only. Reference needles have no impedance.

A: 50k - 100k
 B: 300k - 500k
 C: 800k - 1.2M
 1: 1M ± 0.2M
 2: 2M ± 0.4M
 3: 3M ± 0.6M
 4: 4M ± 0.8M
 5: 5M ± 1.0M
 6: 6M ± 1.2M
 7: 7M ± 1.4M
 8: 8M ± 1.6M
 9: 9M ± 1.8M
 0: 10M ± 2.9M
 N: No Zap (high)*
 R: Reference Needle
 X: Special/Specify

6 Termination Options:

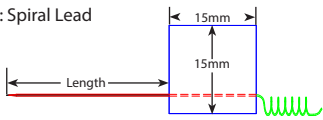
Specials available upon request.

R: Male Pin and Tab



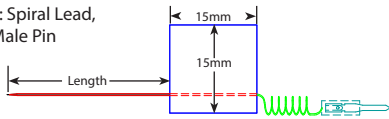
Color coded tab and 0.032"Ø male pin.
 Blue Tab: Reference Needle
 White Tab: Active Needle

S: Spiral Lead



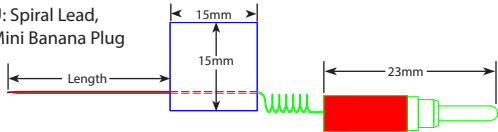
30ga Spiral Leads; Stretchable up to 20cm (8"). Ends stripped and tinned the last 10mm.

T: Spiral Lead, Male Pin



30ga Spiral Leads Terminated with 0.032"Ø male pins w/ black heatshrink.

U: Spiral Lead, Mini Banana Plug



30ga Spiral Leads Terminated with color coded mini banana plugs.
 Red: Active
 Black: Reference

L: Floating termination, See diagram:



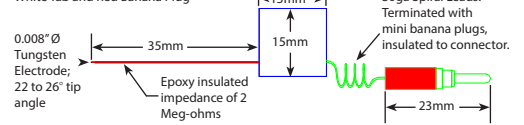
D: No pin, insulation not stripped
 E: No pin, insulation stripped 5mm
 G: No pin, insulation stripped 10mm
 H: No pin, insulation stripped 15mm
 J: No pin, insulation stripped 20mm
 M: Male pin only (No tab)
 X: Special (not listed)

Other termination options are available. See: TO SPECIFY FHC METAL MICROELECTRODES L022-20-01 for details.

Examples:

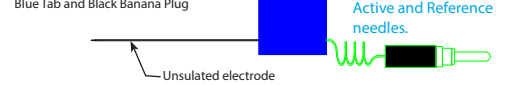
UNP35F2U

Active Electrode



Package of 6 pairs, containing 6 Reference and 6 Active Electrodes:

Reference Electrode



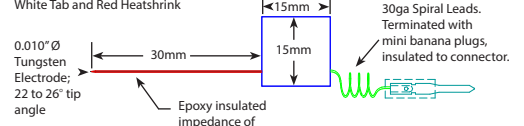
*Note: If ordering impedance N: No Zap, follow up to ensure impedance expectations before proceeding.

(iin) Customers Initials and revision # only if necessary.

ii: Initials of the customer for/by whom the electrode was designed
 n: Version or revision number

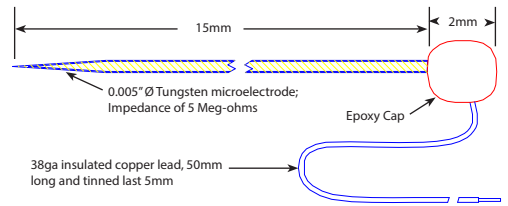
UNA30GBT

Active Electrode



Package of 12 Active Electrodes:

UNA15E5L



Package of 12 Active Electrodes:

FHC Microneurography Electrodes (referred to as needles by many) were developed to record multi-unit peripheral nerve activity. They have been refined over the years by working in conjunction with the investigators who use them. The tip taper is dramatically shorter and broader than our standard microelectrodes and convex to facilitate a minimally painful penetration through the skin. These tungsten electrodes can be provided with a variety of shank diameters and impedances to satisfy various recording requirements. A number of termination options are available to aid in the placement and support of the electrode in the nerve. They are also typically provided with a 15mm square manipulating tab to aid in accurate placement. Alternatively, an insulated floating termination can be provided to allow the electrode to move with the target tissue. Our Microneurography Electrodes are available in an uninsulated configuration as well for use as a reference electrode. Please refer to the specification guide for ordering and pricing information.

CAUTION—Investigational device. Limited by Federal (or United States) law to investigational use. FHC, Inc. can assist you through the IRB/IDE approval process for investigational use of the microneurography needle in novel applications.

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