

TO SPECIFY FHC METAL MICROELECTRODES:

CATALOG# **UE** 1234567890 n/n/n...

Metal micro-electrode Base Electrode Finishing Options Modifier(s)

1 Material:

- W: Tungsten
- S: Stainless Steel
- P: Platinum/Iridium
- 80% / 20%
- X: Special / Specify


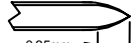
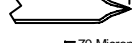
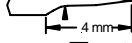
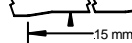
2 Length Range:

Total Electrode Length will be range maximum (+/- 5mm) plus termination addition unless length is specified in step 9.
 S: = up to 60mm
 M: = 61mm to 70mm
 L: = 71mm to 145mm
 V: = 146mm to 295mm

3 Shank Diameter:

- C: .003" / 75µm
- D: .004" / 100µm
- E: .005" / 125µm
- F: .008" / 200µm
- G: .010" / 250µm
- H: .020" / 500µm
- X: Special / Specify

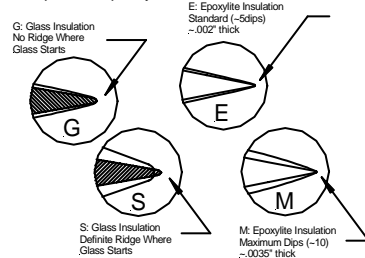
5 Microelectrode Profile:
Specialty Profiles

- S: Standard Profile 
- V: Short Convex  -0.35mm
- C: Short Concave 
- T: Short Thinned  70 Microns, 4 mm
- L: Long Thinned  60% Shank dia., 15 mm

X: Special / Specify

6 Insulation Options:

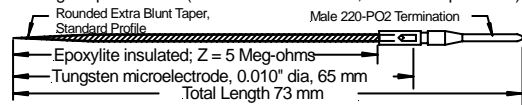
- E: Epoxyite Insulation
- M: 'Max dips' Epoxyite
- G: Glass, immersed tip (Pt/Ir or W, only)
Standard Insulation Length: 15mm from tip.
See [Shank Modification Note](#)*
- S: Glass, exposed tip (Pt/Ir, only)
Standard Insulation Length: 15mm from tip.
See [Shank Modification Note](#)*
- N: No Insulation
- X: Special / Specify



9 Shank Modifications:
Please provide required specifications for any shank modifications

N: None, standard

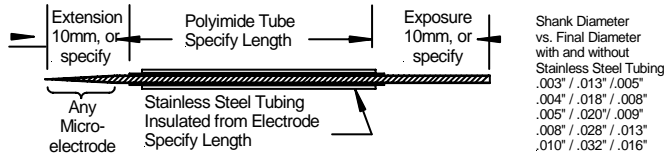
- 1: Cut electrode to a specified length +/- 2mm, (specify electrode length in mm)
- NOTE: If pin termination is specified in 10, total electrode length will be specified length + pin addition. (see UEWMGBSE5N1M, 65mm example below)



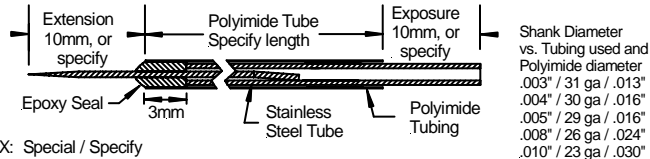
- 2: Heatshrink over Termination, Specify either dimension shown below in diagram



- 3: Shank Enlargement with Polyimide and Stainless Steel Tubing. Specify dimensions shown below in diagram. Tubing sizes are indicated on the chart unless otherwise specified
- 4: Shank Enlargement with Polyimide Tubing Only. Specify dimensions shown below in diagram w/ exception of SS Tube length. Tubing sizes are indicated on the chart unless otherwise specified



- 5: Shank Extension up to 150mm, specify dimensions shown in diagram below, Tubing sizes are indicated on the chart unless otherwise specified
- 6: Shank Extension from 151mm to 300mm, specify dimensions in diagram below, Tubing sizes are indicated on the chart unless otherwise specified

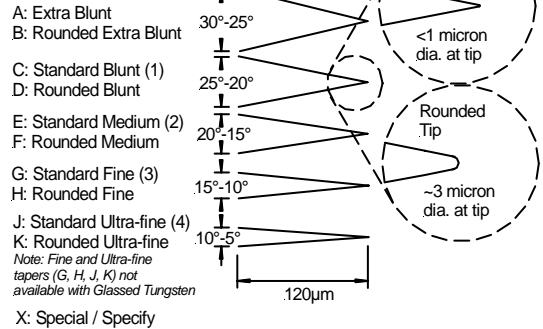


X: Special / Specify

Modifier Note:

Any X's or numbers in the catalog # indicate that modifiers are required.

4 Final Taper Angle:
The last 120 microns



7 Impedance:

Measured at 1000Hz

- A: 50k Ω 100k Ω 1: 1M Ω +/- 2M Ω
- B: 300k Ω 500k Ω 2: 2M Ω +/- 4M Ω
- C: 800k Ω 1.2M Ω 3: 3M Ω +/- 6M Ω
- D: 2M Ω 4M Ω 4: 4M Ω +/- 8M Ω
- E: 5M Ω 7M Ω 5: 5M Ω +/- 1M Ω
- F: 8M Ω 10M Ω 6: 6M Ω +/- 1M Ω
- G: 13M Ω 15M Ω 7: 7M Ω +/- 1M Ω
- H: 18M Ω 20M Ω 8: 8M Ω +/- 1M Ω
- J: 22M Ω 25M Ω 9: 9M Ω +/- 1M Ω
- K: 2M Ω 5M Ω 0: 10M Ω +/- 1M Ω
- L: 9M Ω 12M Ω X: Special / Specify
- N: No Zap (High)

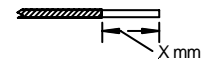
8 Tip Conditioning:

- N: None, Standard
- P: Platinum Black after setting impedance.
- T: Platinum Black with a final impedance specified
- X: Special / Specify

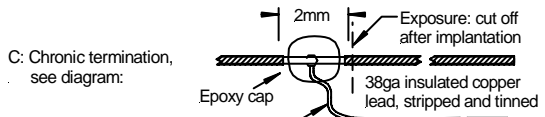
10 Termination Options:

Special terminations available upon request, see *Microneurography Needle Data sheet* for additional options, specify X.

- 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

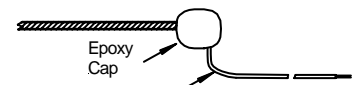


- M: Male 220-PO2 (Standard) 2.4 mm 8mm PIN ADDITION: WPI pins add 8mm to the length of the electrode
- F: Female 220-S02



- C: Chronic termination, see diagram:

- L: Floating termination, see diagram:



X: Special (not listed)

K3-73B February 15, 2008