



TO SPECIFY FHC METAL MICROELECTRODES:

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

Metal microelectrode Base Electrode Finishing Options Modifier(s)

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

L022-20-01 Rev FO 2018-07-09

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 150mm
- V: = 151mm to 295mm

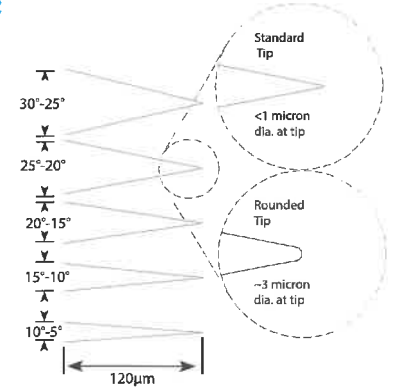
3 Shank Diameter:

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

4 Final Taper Angle:

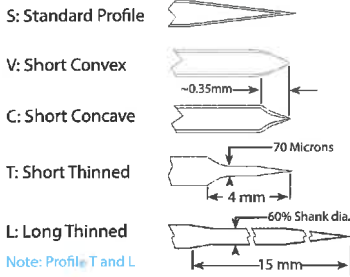
The last 120 microns

- A: Extra Blunt
- B: Rounded Extra Blunt
- C: Standard Blunt (1)
- D: Rounded Blunt
- E: Standard Medium (2)
- F: Rounded Medium
- G: Standard Fine (3)
- H: Rounded Fine
- J: Standard Ultra-fine
- K: Rounded Ultra-fine
- Note: Fine and Ultra-fine tapers (G, H, J, K) not available with Glassed Tungsten.
- X: Special / Specify



5 Microelectrode Profile:

Specialty Profiles



Note: Profile T and L not available with Glass Insulation

X: Special / Specify

6 Insulation Options:

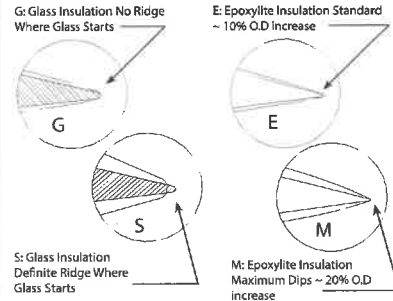
- E: Epoxy Insulation
- M: 'Max dips' Epoxylite
- G: Glass, immersed tip (Pt/Ir or W, only) Standard Insulation Length: 15mm from tip.

See Shank Modification Note¹

- S: Glass, exposed tip (Pt/Ir, only) Standard Insulation Length: 15mm from tip.
- N: No Insulation
- X: Special / Specify

See Shank Modification Note¹

- N: No Insulation
- X: Special / Specify



9 Shank Modifications:

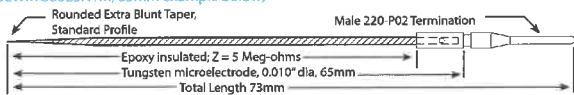
Please provide required specifications for any shank modifications

Note¹: For glass insulation electrodes a shank modification of #4 Shank Enlargement with Polyimide Tubing is the default. Modifications #3, 5, and 6 also available. Standard extension (glass insulation) is 15mm. Other lengths may be specified between 5 and 20mm. Polyimide length will be total length minus the extension and termination.

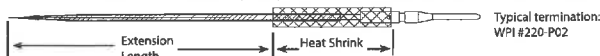
N: None, Standard

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 UEWMBSE5N1M, 65mm example below)

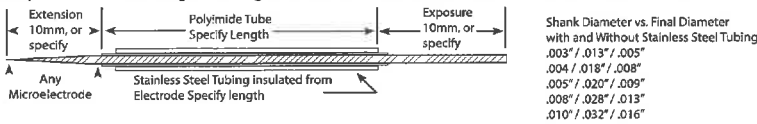


2: Heatshrink over termination, Specify either dimension shown below in diagram.



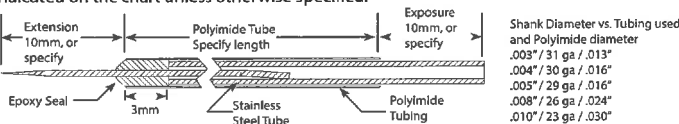
3: Shank Enlargement with Polyimide and Stainless Steel Tubing. Specify dimensions shown below in diagram. Tubing sizes are indicated on the chart unless otherwise specified.

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

7 Impedance:

Measured at 1000Hz

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

8 Tip Conditioning:

- N: None, Standard
- X: Special / Specify

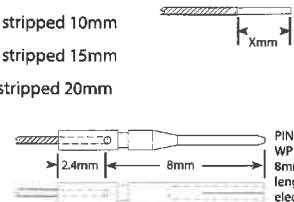
Note: D.ZAP is standard for impedance 1.2M Ω and lower (A, B, C, 1)

10 Termination Options:

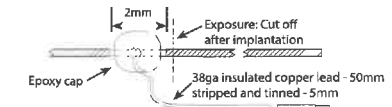
Special terminations available upon request, see Microneurography Needle (UN) Spec Sheet L022-20-06 for additional options, specify X.

- 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

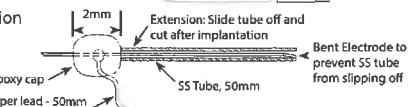
- M: Male 220-P02 (Standard)
- F: Female 220-S02



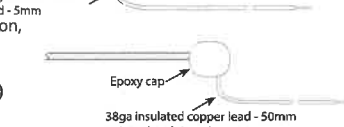
C: "Cut off" Chronic termination, see Diagram:



K: Friction Fit Extension



L: Floating termination, see diagram:



X: Special (not listed)

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