

# 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

C: Short Concave

T: Short Thinned

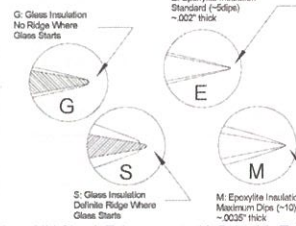
L: Long Thinned  
Note: Profile T and L not available with Glass Insulation

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



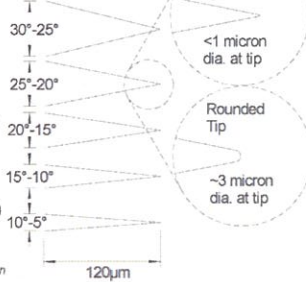
## Modifier Note:

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

## 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 (4)  
K: Rounded Ultra-fine  
Note: Fine and Ultra-fine tapers (G, H, J, K) not available with Glass Insulation  
X: Special / Specify



## 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

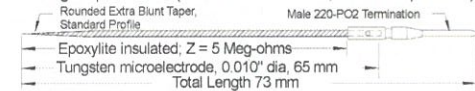
## 9 Shank Modifications:

Please provide required specifications for any shank modifications

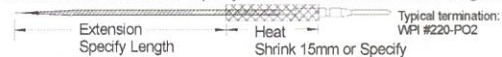
Note\*: For glass insulated electrodes a shank modification of #4 Shank Enlargement with Polyimide Tubing is the default. Modifications #3, 5, and 6 also available. Standard extension (glass insulation) is 15mm. Other lengths may be specified between 5 and 20mm. Polyimide length will be total length 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 UEWMGBSE5N1M, 65mm example below)

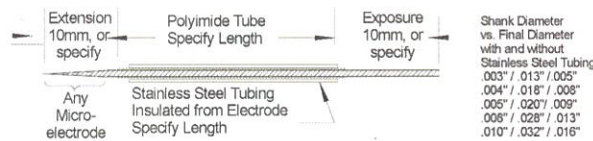


2: Heatshrink over Termination. Specify either dimension shown below in diagram



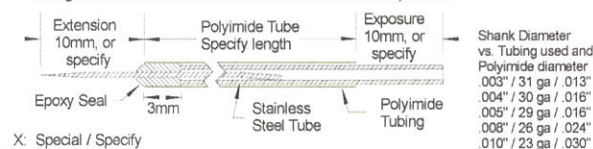
3: Shank Enlargement with Polyimide and Stainless Steel Tubing. Specify dimensions shown below in diagram. Tubing sizes are indicated on the chart unless otherwise specified

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

## 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-P02 (Standard)

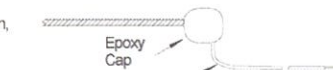
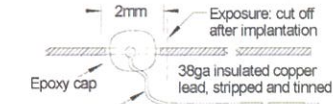
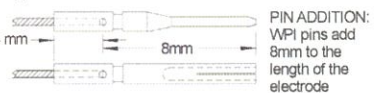
F: Female 220-S02

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

K: Friction Fit Extension

L: Floating termination, see diagram:

X: Special (not listed)



(K3-73B) VL022/CAD cat pgs/UE 20120830