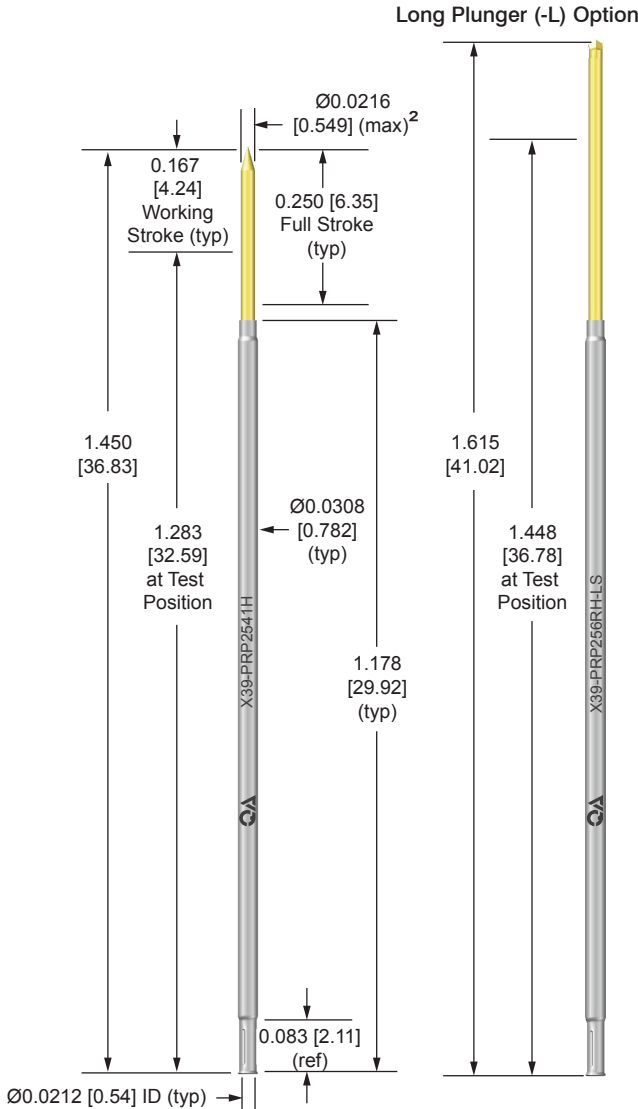




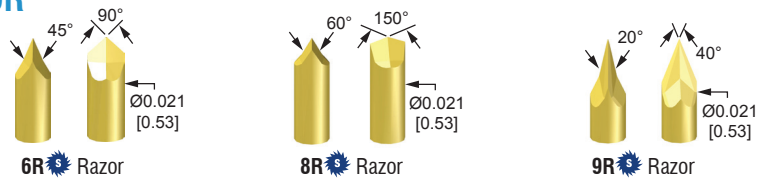
X39-25 Series

0.039 [1.00] Centers | 0.250 [6.35] Full Stroke

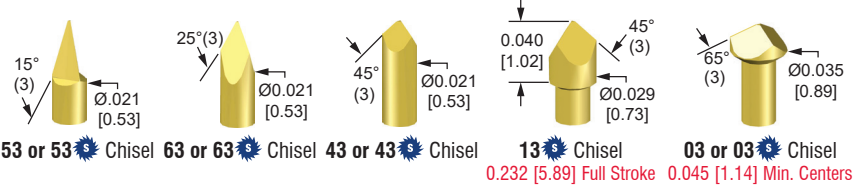


Long Plunger (-L) Option

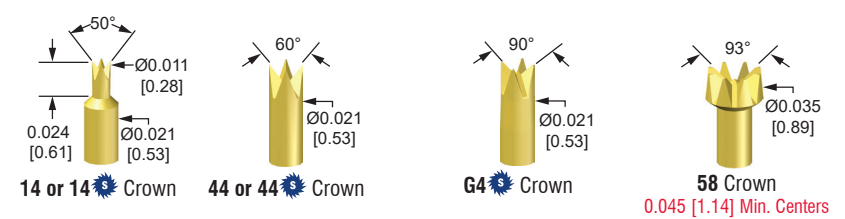
RAZOR



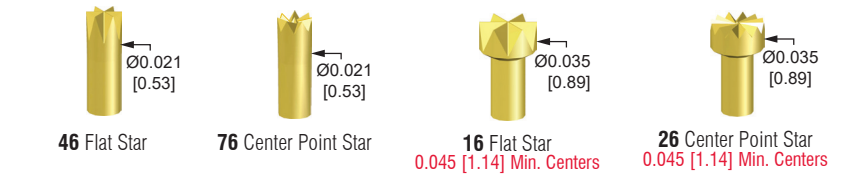
CHISEL



CROWN



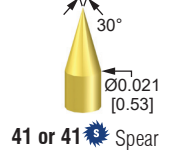
STAR



SERRATED



SPEAR



PROBE P/N X39-PRP25 example: X39-PRP2543S

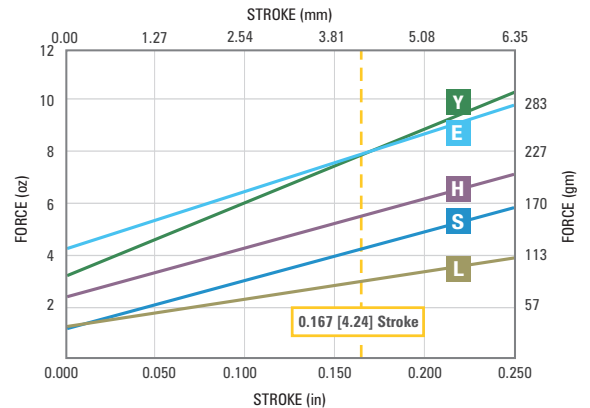
Tube	Letter	Material/Finish	Average Resistance	Current Rating AMPS ¹ 120°C (204°C) ²		
	P	Nickel silver/ID precious metal clad	< 25 mOhms	3.4 (4.7) ³		
Tip Style	Digits	Material/Finish				
	See Tips	Standard material is heat treated BeCu/plated gold over nickel. (see S option for steel plungers)				
Spring	Letter	Spring Force	Preload	@ 0.167 [4.24] Stroke	Material	Cycle Life @ 0.167 [4.24] Stroke
	L	Low	1.2 [34g/0.33N]	3.0 [85g/0.83N]	MW	1,000,000
	S	Standard	1.1 [31g/0.31N]	4.3 [122g/1.20N]	MW	1,000,000
	H	High	2.4 [68g/0.67N]	5.6 [159g/1.56N]	MW	1,000,000
	Y	Elevated	3.2 [91g/0.89N]	8.0 [227g/2.22N]	SS	25,000
High Preload Spring – Only available with headless steel tip styles.						
	E	High Preload	4.2 [119g/1.17N]	8.0 [227g/2.22N]	SS	10,000
Option	Letter	Description				
	L	Long plunger. Must select from X39-40 tip styles				
	N	No probe lubrication. Removing lubrication greatly reduces cycle life and should only be used in applications outside of the working temperature range, see Testing in Extreme Working Temperatures application note for more details. ³				
	S	Heat treated steel/plated gold over nickel (see tip style for availability)				
(Blank)	No option required					

¹ Current rating is affected by spring material and lubrication choice. Please refer to Current Carrying Capacity and Testing in Extreme Working Temperature applications notes for more details.

² Maximum plunger OD should be used to calculate minimum guide plate clearance holes.

³ Working Temperature Range: -45°C to 120°C with lubrication. SS springs can be used up to 204°C without lubrication.

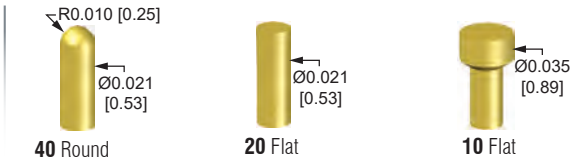
SPRING FORCE



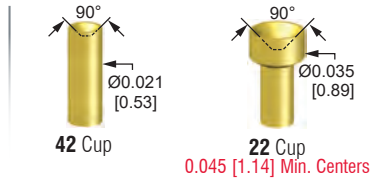
TOOLS & ACCESSORIES

See pages 75-79 for order information.

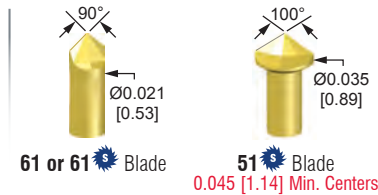
ROUND & FLAT



CUP



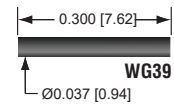
BLADE



TORCH



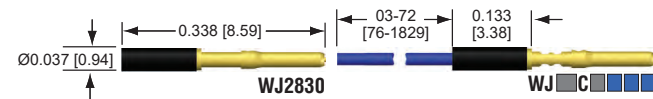
WIRE GRIP SLEEVE



P/N: WG39

Description/Material
To accept 30AWG Kynar solid insulated wire, stripped at 0.120 [3.05], (not included)
Nylon sleeve, black

WIRE JACK

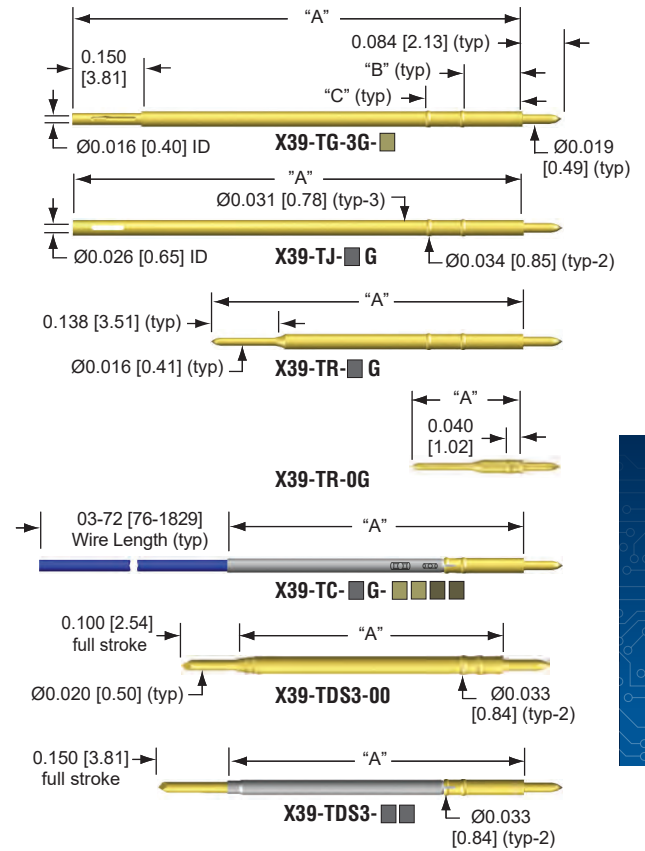


P/N: WJ example: WJ28C8230

Digit	Description
2830	Wire Jack only (customer to crimp wire) brass/gold plated with nylon insulator.
28C8	28 AWG Kynar insulated solid wire, pre-attached, specify color and length.
30C3	30 AWG Kynar insulated solid wire, pre-attached, specify color and length.
Colors Available for 28C & 30C Termination	
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray
9	White
Wire Length Available for 28C & 30C Termination	
Specify Length in inches: 03 – 72 [76-1829]	
Option	Description
S	Stripped Length 0.000/0.669 [0.00/16.99]; Customer to specify in inches

TERMINATION PIN

Suggested mounting holes and drill sizes in AT7000, G10/FR4 or similar materials should be gauged in probe plate at 0.0315 / 0.0325 [0.800 / 0.826]; Drill Size #66 or 0.84mm and back plate at 0.0315 / 0.0325 [0.800 / 0.826]; Drill Size #66 or 0.84mm



TERMINATION PIN P/N

X39-T-G example: X39-TJ-3G

Letter	Material/Finish			
C	Crimped. Termination material: Heat treated BeCu/gold plated over nickel. Tube material: ID precious metal clad.			
DS3	Double-ended for wireless testing. See page 69 for ordering details.			
G	Wire Grip. Heat treated BeCu/gold plated over nickel, accepts wire grip sleeve.			
J	Wire Jack. Heat treated BeCu/gold plated over nickel, accepts wire jack.			
R	Round post. Heat treated BeCu/gold plated over nickel.			
Digits	Description	A in (mm)	B in (mm)	C in (mm)
0	Only available in TC	0.582 [14.78]	0.113 [2.87]	0.065 [1.65]
1	Only available in TR	0.261 [6.63]	0.040 [1.02]	0.000 [0.00]
2	Only available in TJ	0.642 [16.31]	0.173 [4.39]	0.125 [3.18]
3	Only available in TR	0.628 [15.95]	0.077 [1.96]	0.036 [0.91]
4	Only available in TG	0.675 [17.15]	0.210 [5.33]	0.125 [3.18]
5	Only available in TJ	0.975 [24.77]	0.210 [5.33]	0.125 [3.18]
6	Only available in TJ	0.975 [24.77]	0.210 [5.33]	0.125 [3.18]
7	Only available in TJ	1.100 [27.94]	0.210 [5.33]	0.125 [3.18]
8	Only available in TJ	1.225 [31.12]	0.210 [5.33]	0.125 [3.18]
9	Only available in TJ	1.600 [40.64]	0.210 [5.33]	0.125 [3.18]
Options	Description			
Digits	Available for TG Termination Only			
2	X39-TG-3G with WG39 wire grip sleeve			
Digits	Wire Size Available for TC Termination Only			
3	30 AWG Kynar insulated solid wire, pre-attached. Specify color and length			
8	28 AWG Kynar insulated solid wire, pre-attached. Specify color and length			
Digits	Wire Colors Available for TC Termination Only			
0	Black			
1	Brown			
2	Red			
3	Orange			
4	Yellow			
5	Green			
6	Blue			
7	Violet			
8	Gray			
9	White			
Digits	Wire Length Available for TC Termination			
	Specify Length in inches: 03 – 72 [76-1829]			
(Blank)	No option required			

X39-25 Series

US Patent No. 6,570,399 & 4,885,533

