Series 22 for ≥ 100 MIL Pitch

Extra-long Type for Test-Pads in ≥ 100 MIL Pitch
Maximum Travel 250 MIL (6.35 mm)

The Series 22 uses Receptacles of Series 100

The list is showing all head-styles which are available in the series 22. The number shown right besides every picture is the part number used for ordering. Please replace the field "xx" by the spring force value you'd like to have. The available spring options are listed below.

Example of a completed ordering number:
22.02.10.10

Available spring forces with values in Newton (N) and ozs. and the adding code for the part number:

Code	Preload (N)	(oz.)	Rated Force (N)	(oz.)
10	0.3	1.04	1.0	3.46
18	0.6	2.08	1.8	6.23
25	1.0	3.46	2.5	8.65

Further Technical Data:

Minimum center spacing:	2.54	mm	.1	inches
Extension height:	10.1- 22.5	mm	.398 - .886	inches
Overall length:	34.75	mm	1.368	inches
Barrel diameter:	1.36	mm	.054	inches
Plunger shaft diameter:	1.0	mm	.039	inches
Maximum travel:	6.35	mm	.25	inches
Recommended (rated) travel:	4.2	mm	.165	inches
Temperature range:	-55°C ... +105°C		-67°F ... +221°F	
Typical electrical resistance:	20	mΩ		
Rated electrical current load:	3	amps		
Maximum current load:	4	amps		
Typical life-time in cycles:	2 x 10^6	cycles		

Further spring forces and head styles available on request. Please allow longer delivery for special configurations.

Use receptacles of series 100, part number beginning with "S 100".
Further head styles and spring force options available on request.
Series 100 version which is 1.5 mm (.059") shorter for component legs.
Extra-long Series 125 with 10 mm (.394") max. travel for Dual-Level-Fixturing.
Designed for use in receptacles without a detent, the SP-option probes have a slight bend in the barrel and are identical in dimension and material to the standard type. Please add the suffix "-SP" to the order number.
Offering a large variety on receptacles with different press-shoulders and probes with different lengths and travels, this "prduct family" allows you many applications.

The series 22 can be combined with probes for smaller centre pitches for use in mixed centre applications. Please note that there is no extra-long 50 MIL probe available. Designing a Dual-Level-Fixture for FCT and ICT, make sure that all Functional-Test-Points have a minimum centre spacing of 75 MILs or more.

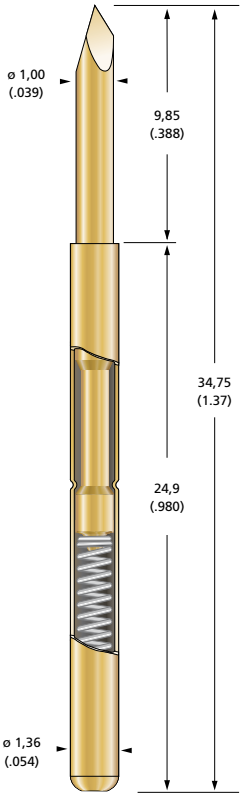
Available combination probes are:

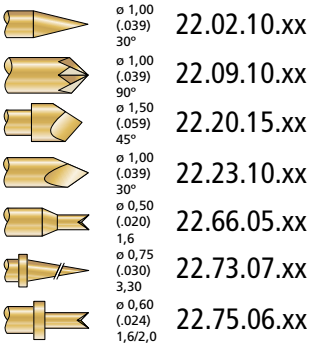
centre pitch	max. travel	Series
50 MIL	.25"	15
50 MIL	.25"	071
75 MIL	.25"	75
75 MIL	.393"	119
100 MIL	.25"	100
100 MIL	.393"	125

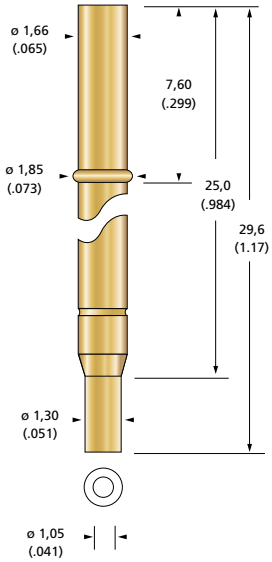
Please notice our infopage "Dual-Level-Fixturing" with more detailed information.

Materials:

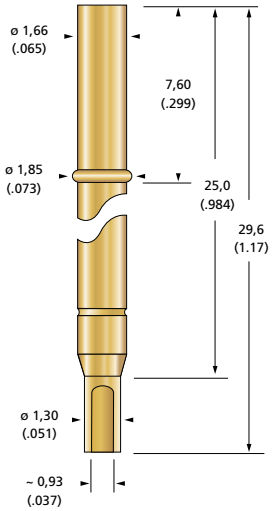
Plunger:	CuBe, gold plated
Barrel:	Copper Alloy, gold plated
Spring:	Music Wire, silver plated



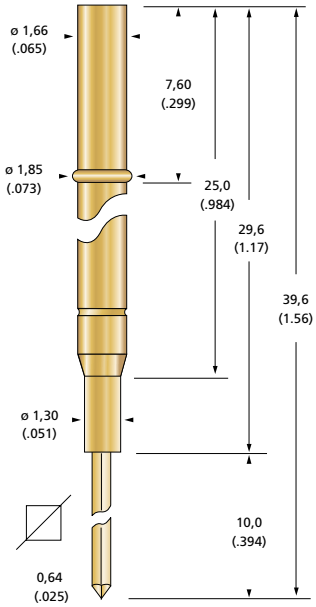




S 100.00-C
Open Crimp End



S 100.00-L
Solder Cup



S 100.00-W
Wire-Wrap-Post

Further receptacles and options, for example with pre-attached wire (stranded wire or wire-wrap-wire) we produce on demand.

For the installation of the receptacles the mounting plate requires precise drilling. In the fixture business there are some typical base materials used for the pin plates which are different in drill bit diameters and machining parameters. The table below is showing the recommended drill diameter and the order numbers needed when ordering drill bits from us. For machining parameters please consult factory.

Receptacle with Press-Ring, pressed into Plate Material			
Material	Drill-ø		Part No.
CEM1 (also called EP105)	.0689 in.	1.75 mm	500-0175
FR4 (G10, Hgw 2372 or Hgw 2372.1)	.0701 in.	1.78 mm	500-0178
Press-Ring or Stop Ring used as a Collar			
CEM1 (also called EP105)	.0665 in.	1.69 mm	500-0169
FR4 (G10, Hgw 2372 or Hgw 2372.1)	.0669 in.	1.70 mm	500-0170