



Probe 138 mil Robust Version

F773

Centers (mm/mil)	3,50 / 138
Current	10,0 A
Temperature	-20°C...+80°C,
R typically	25 mOhm

Spring Force (cN ±20%)

Preload	Nominal Force
50	150
40	150
30	220
80	300
70	300
100	400

Travel (mm)

Nominal	Maximum
4,0	5,0
Pointing Accuracy	±0,1 mm

Materials and Plating

Plunger	see Tip Style
Barrel	Bronze, gold plated
Spring	Music wire, silver plated
Receptacle	Nickel silver, Gold plated

Accessories

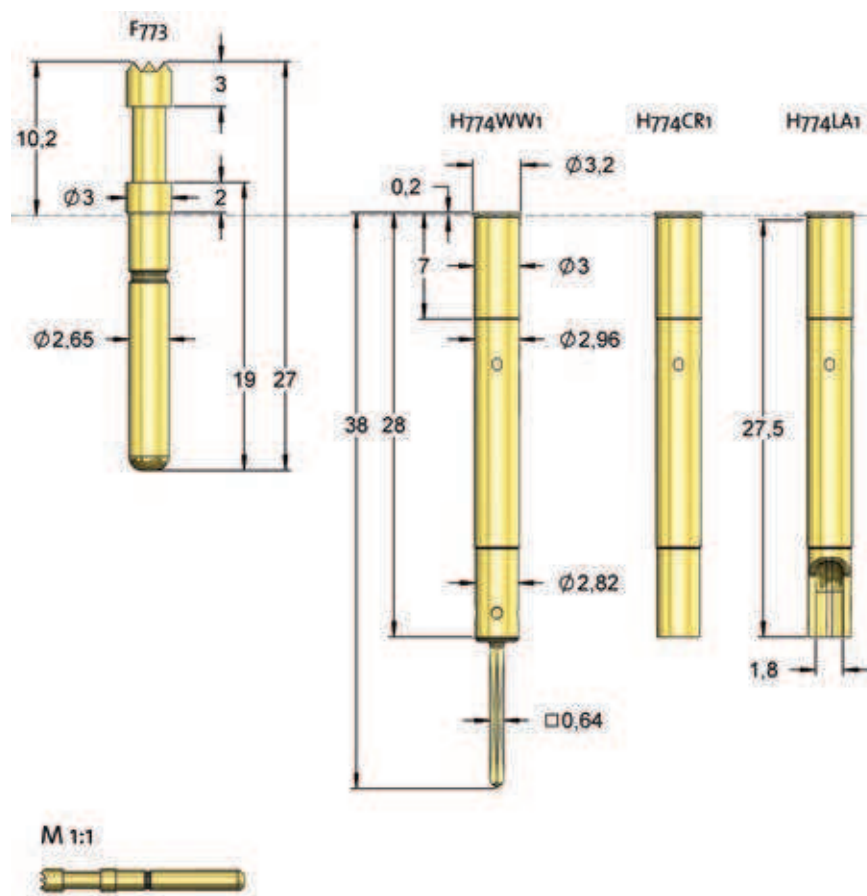
Insertion tool receptacle	FEWZ-774E0
Insertion tool probe	FDWZ-100
Spacers	see page 10

Drill Size [mm]

H774...	2,98 - 2,99
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Projection Height

H774...	10,2
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High temperature version available on request. Special version with stainless steel plunger available as F77312E230U150.

Type	Tip-Ø	Spring Force
F 773	12	B 300
		G 300
		H
Tip Style	Material	Finish
Material:	B = BeCu, S = Steel, E = Stainless Steel	
Tip-Ø:	300 = 3,0 mm (e.g.)	
Finish:	G = Gold, L = Longtime Gold plated, U = Unplated	
Special Version:	H = High Temperatur, E20 = Projection Height 20 mm	
Receptacle:	Order Code according drawing	

ORDER EXAMPLE

Tip Style	Number	Material	Plating	Ø in mm	Version
	04	B	G	2,3	-
	05	B	G	2,3	-
	06	B	G	2,3 / 3,0 / 4,0	-
	07	S	L	2,3 / 4,0	-
	09	S	L	2,3	-
	11	B	G	1,8	-
	12	B	G	2,3 / 3,0	-
	14	S	L	2,3	-
	15	B	G	2,3 / 3,0	-
	16	B	G	1,4 / 1,8	-
	17	B	G	2,3 / 3,0	-
	18	B	G	1,8	-

Receptacles and Assembly

Receptacles for Spring Contact Probes

For simple replacement spring contact probes are typically mounted into receptacles. The probes are either plugged-in or screwed into the receptacle, depending on the type of contact probe. Receptacles are available with different types of electrical connection.

Mounting

Receptacles with collar on top have a fixed projection height and guarantee the tightest seat with very low tolerances. Receptacles with press ring can be used in two ways. Either the press ring is used as dead stop or it is inserted into the mounting plate, which results in a variable projection height. For receptacle insertion into the mounting plate, a special insertion tool is necessary.

Connection of Receptacles

Almost all receptacles are available with solder or crimp connection. Wire wrap connections are frequently used for test fixture manufacturing, because they can be wired automatically. Some receptacles (especially those with very small diameters) are available with preassembled cables. Additionally, for example to connect coaxial probes, special connecting elements can be used.

Types of Receptacles

At ICT/FCT test fixtures mainly plug-in probes are used. However, in some applications, particularly at modules for wire harness and connector tests, threaded probes are used, which are screwed into the receptacles. Threaded probes guarantee a secure seat because they do not move out of the receptacle even under difficult conditions. Knurled receptacles ensure a firm seat of the receptacle in the drill hole. For switch probes and coaxial probes, FEINMETALL has developed special receptacles called „combi-receptacles“, which enable a solder free exchange of these probes. Further receptacles with integrated switch function are available, that are frequently used in combination with twist proof probes.

Drilling Recommendations

Mounting the receptacle into the mounting plate demands special precision. Various parameters like rotating speed, feed, helical groove length, material and plate thickness are influencing the drilling results. Therefore it is very important to make drilling tests in order to ensure that the receptacles have a proper seat in the mounting plate. The drilling recommendations in the technical specifications of the probes are guideline values only as a basis for your own drilling trials.

Spacers

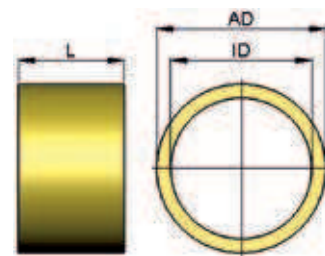
For height adjustment and balancing of tolerances.

Spacers H773 for 138 mil Probes

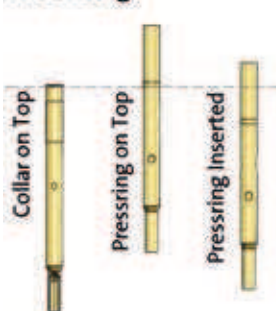
Order Code	OuterØ	InnerØ	Length
H773DS/01	3,2	2,7	0,1
H773DS/05	3,2	2,7	0,5
H773DS/10	3,2	2,7	1,0
H773DS/20	3,2	2,7	2,0
H773DS/30	3,2	2,7	3,0
H773DS/50	3,2	2,7	5,0

Spacers H772 for 100 mil Probes

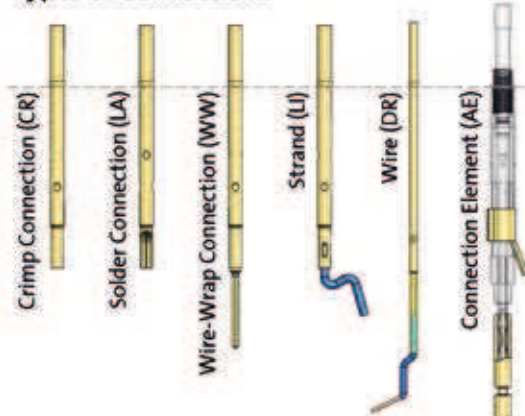
Order Code	OuterØ	InnerØ	Length
H772DS/10	2,2	1,7	1,0
H772DS/20	2,2	1,7	2,0
H772DS/30	2,2	1,7	3,0
H772DS/50	2,2	1,7	5,0



Mounting



Types of Connections



Types of Receptacles

