



**HF60-0024 MMBX-F 4 P MCX**

**Contacting MMBX-Female**

**NEW**

<b>Centers (mm/mil)</b>	8,50 / 335
<b>Current (Circular)</b>	10,0 A
<b>Current (Internal)</b>	3,0 A
<b>Impedance [Z]</b>	50 Ohm
<b>Frequency</b>	6 GHz
<b>Temperature</b>	-20°C...+80°C

**Spring Force (cN ±20%)**

	Preload	Nominal
Total	-	530
Internal Cont.	75	130
Circular Cont.	90	400

**Travel (mm)**

	Nominal	Maximum
Internal Cont.	2,0	3,7
Circular Cont.	4,0	5,0
Thread (M)		M5x0,5
Wrench Size		3,5 / 4,0 / 5,0

**Materials and Plating**

Internal Cont.	BeCu, gold plated
Circular Cont.	BeCu, gold plated
Barrel	Brass, gold plated
Spring Internal Cont.	Music Wire, gold plated
Spring Circular Cont.	Stainless steel, unplated
Receptacle	Brass, gold plated

**Drill Size (mm)**

H860	4,99 - 5,00
H860RD	5,51 - 5,53
H860FL	7,99 - 8,01

**Projection Height (mm)**

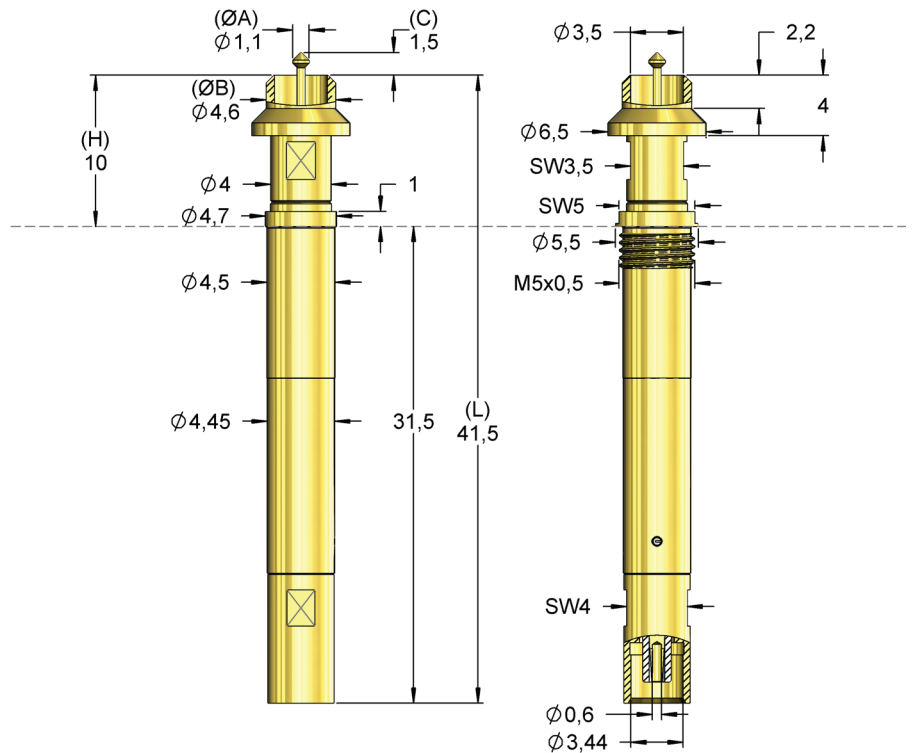
H860(RD) with HF60-0024	10,4
H860FL with HF60-0024	11,5

**Accessories**

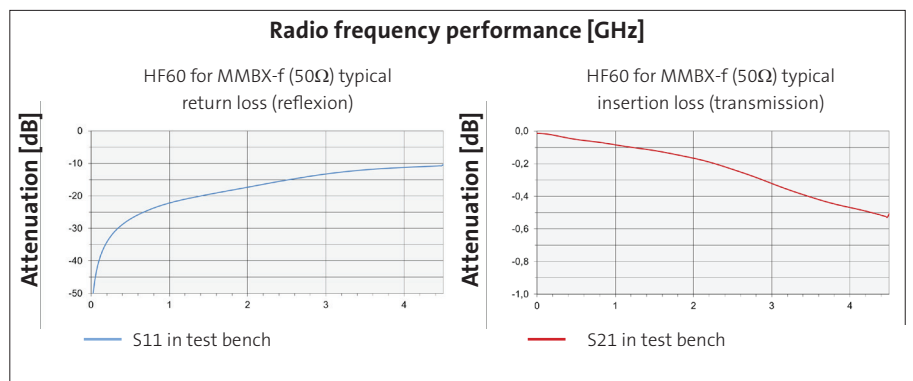
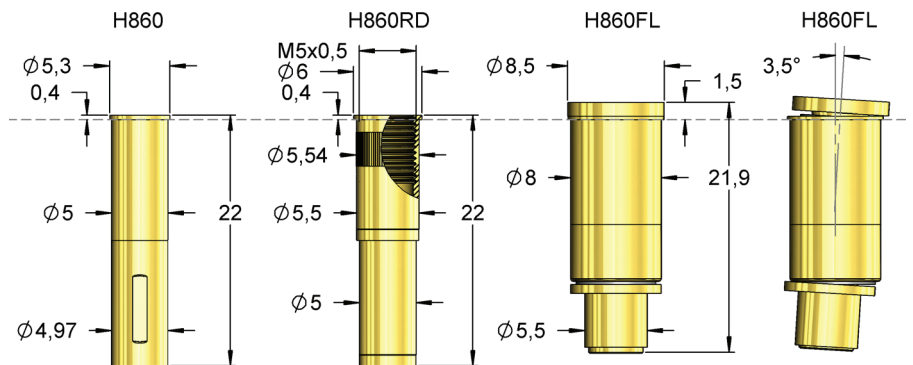
Internal pin	F08602B110G130
Tool for changing internal pin	FZWZ-005 / FDWZ-050
Insertion tool receptacle	FEWZ-822E0
Screw-in tool probe	FWZ860HF50
Cables see overview	page 62

HF86002B0024G530

HF86002B0024G530M



For contacting MMBX-Female connectors.



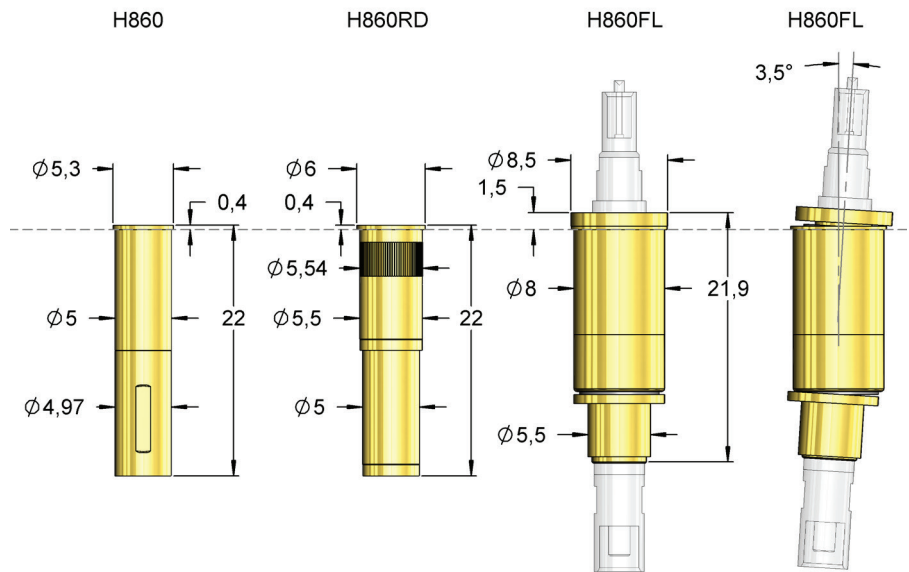
Order Code	Description	Sensepin	Tip Style	Ø A	Ø B	C	H	L	Version
HF86002B0024G530	HF60-0024 MMBX-F 4 P MCX		02	1,10	4,60	1,50	10,00	41,50	-
HF86002B0024G530M	HF60-0024 MMBX-F 4 S MCX		02	1,10	4,60	1,50	10,00	41,50	M



# Receptacles

## for HF860

The new receptacle H860FL allows a flexible (floating) mounting of the high frequency probe HF60. It permits a wobbling by 360 degrees in case of a small offset to the DUT. Such a possible offset is compensated without damaging the DUT. In released mode the HF probe is returned to its zero point position. The screwable receptacle with knurl (H860RD) is available for the screwable versions of the HF860.

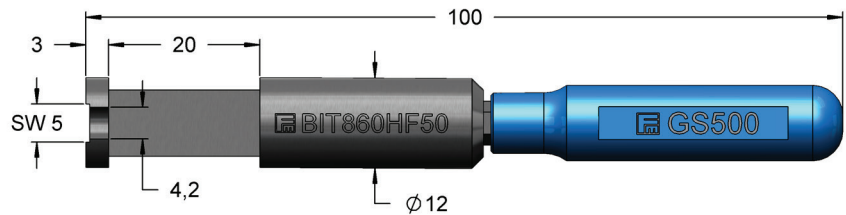


# Tools

## for HF860

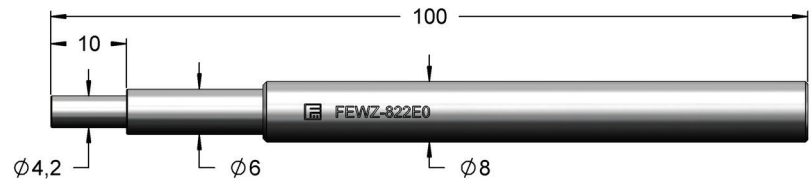
### FWZ860HF50

The FWZ860HF50 is used to screw the probes HF860...M into the screwable receptacle H860RD.



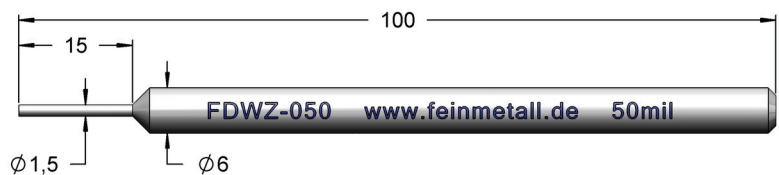
### FEWZ-822E0

The FEWZ-822E0 is used to insert the receptacles H860... into the mounting plate.



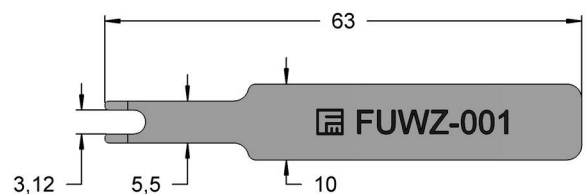
### FDWZ-050

The FDWZ-050 is used to insert the signal pin of the HF860 and HF819 if it is possible to replace the signal pin without damaging it.



### FUWZ-001

With the release tool FUWZ-001 the pin can be released from the flange. The Mini SMP cable connection can also be easily removed without pulling on the cable.



### FZWZ-004 / FZWZ-005 / FZWZ-006

With the removal tool, the signal pin of the HF860 or HF819 can be disconnected and replaced.

FZWZ-004 - Ø0,50 - 0,95mm  
FZWZ-005 - Ø0,95 - 1,55mm  
FZWZ-006 - Ø1,55 - 1,85mm





# F086

## Internal Contact for RF Probes HF819 and HF860

<b>Centers (mm/mil)</b>	1,27 / 50
<b>Current</b>	3,0 A
<b>R<sub>typ</sub></b>	10 mOhm
<b>Temperature</b>	-20°C...+80°C

### Spring Force (cN ±20%)

Version	Preload	Nominal
Standard	75	130
SP	75	130

### Travel (mm)

Version	Nominal	Maximum
Standard	2,0	3,7
SP	2,0	3,7
Pointing Accuracy		±0,05 mm

### Materials and Plating

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

### Accessories

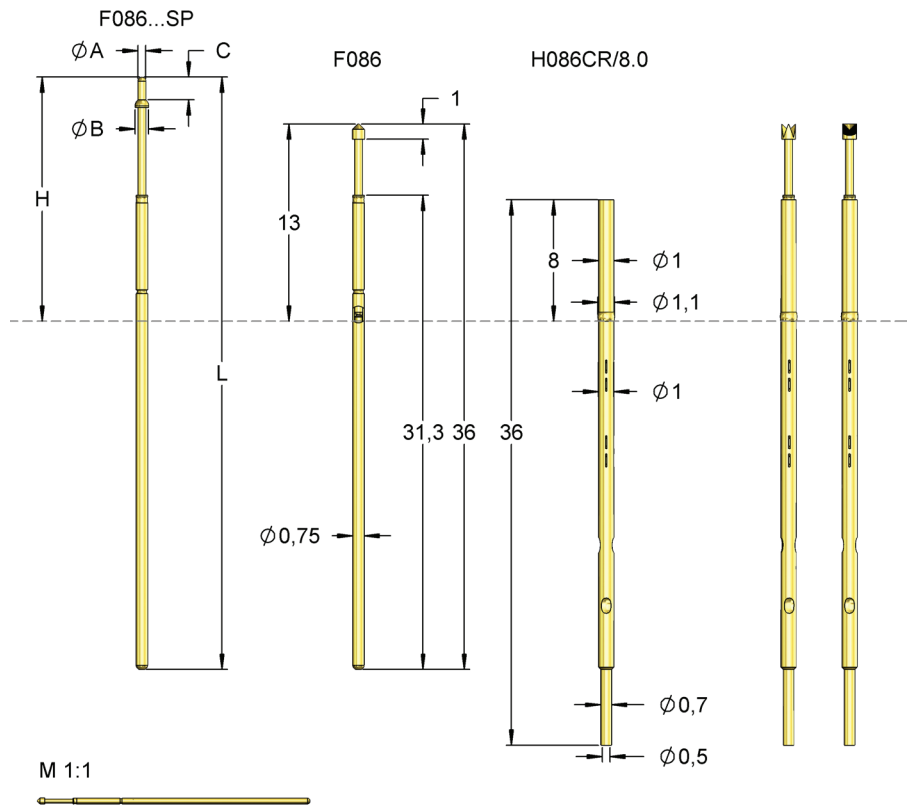
Insertion tool receptacle	FEWZ-050EV
Insertion tool receptacle	FEWZ-050E0
Insertion tool probe	FDWZ-050

### Drill Size (mm)

Receptacle press ring as stop	0,99 - 1,00
Receptacle press ring inserted	1,05 - 1,07

### Projection Height (mm)

H086CR/8.0 with F086	5,0 - 13,0
H086CR/8.0 with F086...SP	8,1 - 16,1



The F086 is mounted in the RF probes HF860 and HF819 as internal contact for signal transmission.

\* deviating from standard, depending on diameter.

Tip Style	Number	Material	Plating	Ø in mm	Version
	02	B	G	0,80	-
	02	B	3,00	G	S1
	02	B	G	1,80	-
	05	B	G	0,90	-
	05	B	G	1,50	-
	11	B	G	0,51	-
	14	B	L	0,90	-
	18	B	G	0,51	-
	55	B	G	0,90	-

Series	Tip-Ø	Spring Force (cN)	
<b>F086</b>	<b>14</b>	<b>S</b>	
	<b>090</b>	<b>L</b>	
		<b>130</b>	
Tip Style	Material	Plating	Version
<b>Material:</b>	B = BeCu, S = Steel		
<b>Tip-Ø:</b>	090 = 0,90 mm (e.g.)		
<b>Plating:</b>	G = Gold plated, L = Longtime gold plated		
<b>Version:</b>	SP = Step Probe (see table)		
<b>Receptacle:</b>	Order Code according drawing		

Order Code	Tip Style	Ø A	Ø B	C	H	L	Version
F08612B0002G130SP *	12	0,51	0,90	1,50	8,10	39,10	SP
F08612B0004G130SP *	12	0,60	0,90	1,50	8,10	39,10	SP
F08612B0003G130SP *	12	max. 0,60	0,90	1,50	8,10	39,10	SP


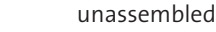



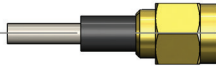
# CONNECTION CABLES


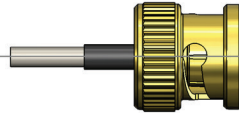
## for Types HF860/HF66

### Connection Cables for HF860


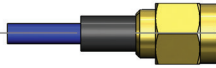
**Connection element with pre-assembled coaxial cable RG 316.**  
Impedance: 50 Ohm  
Cutoff frequency: recommended up to **3 GHz**


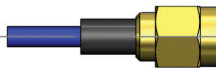
**H86oAE1**  Coax cable 3GHz 700 mm  **unassembled**  
MCX-M straight


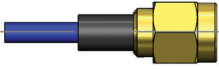
**H86oAE3**  Coax cable 3GHz 700 mm  **SMA-M straight**  
MCX-M straight

**H86oAE4**  Coax cable 3GHz 700 mm  **BNC--M straight**  
MCX-M straight

**Connector with pre-assembled coaxial cable Multiflex 86.**  
Impedance: 50 Ohm  
Cutoff frequency: recommended up to **10 GHz**

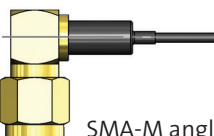

**H86oAE2**  Coax cable 10GHz 700 mm  **SMA-M straight**  
MCX-M straight



**H86oAE5**  Coax cable 10GHz 1500 mm  **SMA-M straight**  
MCX-M straight

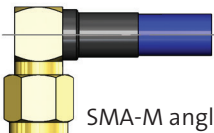

**H86oAE6**  Coax cable 10GHz 800 mm  **SMA-M grade**  
MCX-M angled

### Connection Cables for HF66

**Connector with pre-assembled highly flexible coaxial cable.**  
Impedance: 50 Ohm  
Cutoff frequency: recommended up to **6 GHz**

**H66AE1**  Coax cable 6GHz 700 mm  **mSMP-F straight**  
SMA-M angled

**H66AE2**  Coax cable 6GHz 700 mm  **mSMP-F straight**  
SMA-M straight

**H66AE3**  Coax cable 6GHz 300 mm  **SMA-M straight**  
SMA-M angled