



HF60-0021 1,0/2,3-F 4 P MCX

NEW

Contacting DIN 1,0/2,3-Female

Centers (mm/mil)	6,50/256
Current (Circular)	10,0 A
Current (Internal)	3,0 A
Impedance [Z]	50 Ohm
Frequency	4 GHz
Temperature	-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)

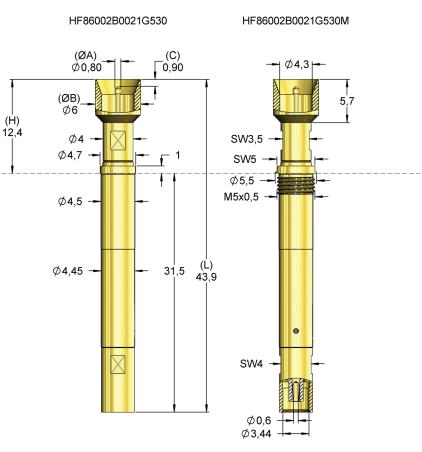
H860	4,99 - 5,00
H860RD	5,51 - 5,53
H860FL	7,99 - 8,01

Projection Height (mm)

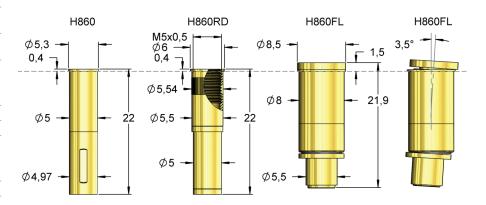
H860(RD) with HF60-0021	12,8
H860FL with HF60-0021	13,9

Accessories

Internal pin	F08602B080G130
Tool for changing	FZWZ-004 /
internal pin	FDWZ-050
Insertion tool receptacle	FEWZ-822E0
Screw-in tool probe	FWZ860HF50
Cables see overview	page 62



For contacting DIN 1,0/2,3-Female connectors.



Radio frequency performance [GHz] HF60 for 1,0-2,3-f (50Ω) typical return loss (reflexion) HF60 for 1,0-2,3-f (50Ω) typical insertion loss (transmission) Image: style="text-align: center;">Operation insertion loss (reflexion)

-1,0

S21 in test bench

Order Code	Description	Sensepin	Tip Style	ØA	ØB	с	н	L	Version
HF86002B0021G530	HF60-0021 1,0-2,3-F 4 P	мсх 🛁	02	0,80	6,00	-0,90	12,40	43,90	-
HF86002B0021G530M	HF60-0021 1,0-2,3-F 4 S	мсх 🛁	02	0,80	6,00	-0,90	12,40	43,90	Μ

S11 in test bench

Attenuation [dB]

-10 -20

-30

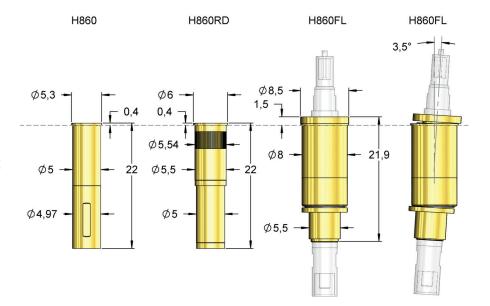
-40

-50



Receptacles

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

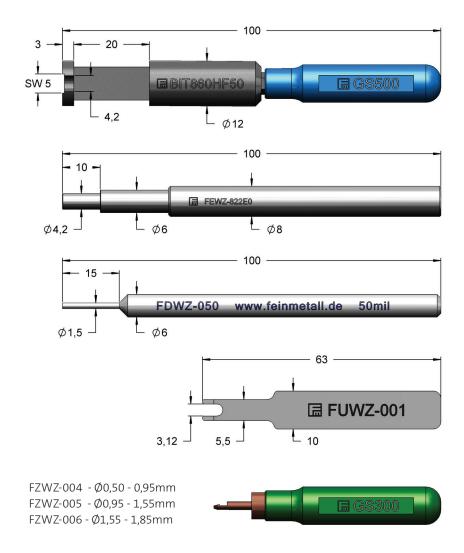
The FDWZ-050 is used to insert the signal pin of the HF860 and HF819 if it is possible to replace the signal pin without damaging it.

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.





F086

Internal Contact for RF Probes HF819 and HF860

Centers (mm/mil)	1,27 / 50
Current	3,0 A
R _{typ}	10 mOhm
Temperature	-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 Accu	uracy	±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)

Order Code

F08612B0002G130SP* F08612B0004G130SP* F08612B0003G130SP*

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 F086SP	8,1 - 16,1

ØA		F0	86	H086CR/8.	0		
фв Н	- [†]						
		13 		8	- Ø1 - Ø1,1		- Jan
	Ĺ	Ø0,75 -	31,3 36 -	36	- Ø1		0 0 0
M 1:1					- Ø0,7 - Ø0,5	0	0

M 1:1

F086...SP

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

* deviating from standard, depending on diameter.

5,0 - 13,0						
8,1 - 16,1	Tip Style	Number	Material	Plating	Ø in mm	Version
		02	В	G	0,80	-
		02	В	3,00	G	S1
		02	В	G	1,80	-
Spring Force (cN)		05	В	G	0,90	-
130		05	В	G	1,50	-
g Version		11	В	G	0,51	-
		14	В	L	0,90	-
gtime gold plated		18	В	G	0,51	-
le) awing		55	В	G	0,90	-
Tip Style	ØA	ØВ	с	н	L	Version
12	0,51	0,90	1,50	8,10	39,10	SP
12	0,60	0,90	1,50	8,10	39,10	SP
12	max. 0,60	0,90	1,50	8,10	39,10	SP

Series			Tip-Ø	Sp	oring Force (cN)
F086	14	S	090	L	130
Т	ip Style	 Material		⊤ Plating	Version
Material		B = BeCu, S = Steel			
Tip-Ø:		090 = 0,90 mm (e.g.)			
Plating:		G = Gold plated , L = Longtime gold plated			
Version:		SP = Step Probe (see table)			
Receptac	le:	Order Code according drawing			



CONNECTION CABLES

for Types HF860/HF66

