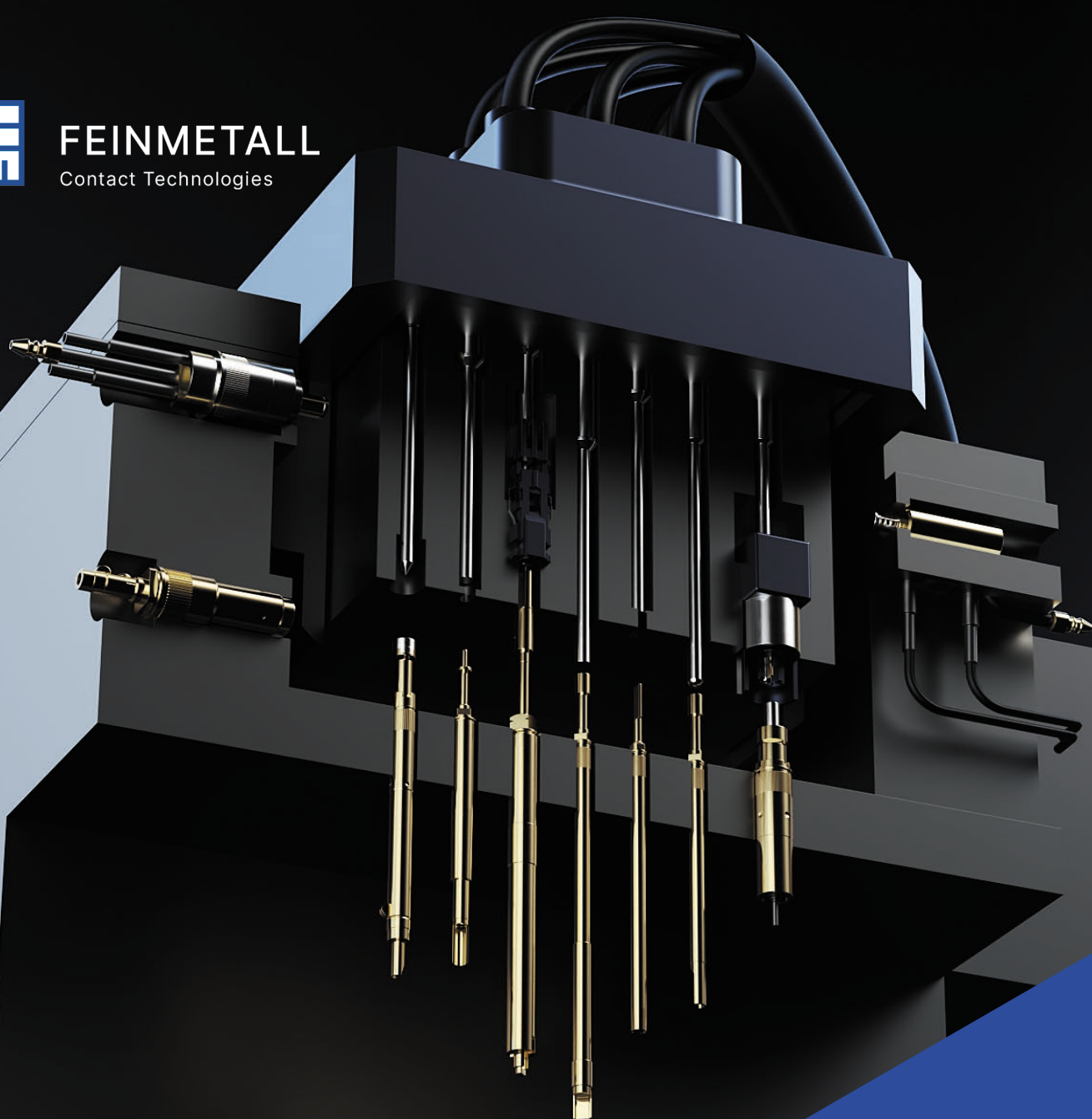




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Contact Technologies



WIRE HARNESS TESTING

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INNOVATIONS – SHAPING
TOMORROW’S SUCCESS.

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KELVIN PROBES - F835 FOR HFM-FEMALE

NEW

F835
10 A | 138 mil | Threaded
For HFM-Female



Electrical specifications

Temperature [°C]	-45°...+100°	
Impedanz [Ohm]	50	
Frequenz [GHz]	2	
	SENSE	POWER
Current [A]	2	10
R TYP [mOhm]	120	20

Mechanical specifications

	SENSE	POWER
Preload [cN]	55	80
Spring force [cN] at nt ±20%	100	300
Nominal travel [mm]	4.0	4.0
Maximum travel [mm]	5.0	5.0

Materials and plating

Contact SENSE	BeCu	gold plated
Contact POWER	BeCu	gold plated
Barrel	Brass	gold plated
Spring SENSE	Spring steel	silver plated
Spring POWER	Spring steel	gold plated
Receptacle	Brass	gold plated

Accessories

Further receptacles see H885 on our website.

1003642	FEWZ-774E0	Insertion tool receptacle
1009781	FWZ885T	Screw-in tool probe

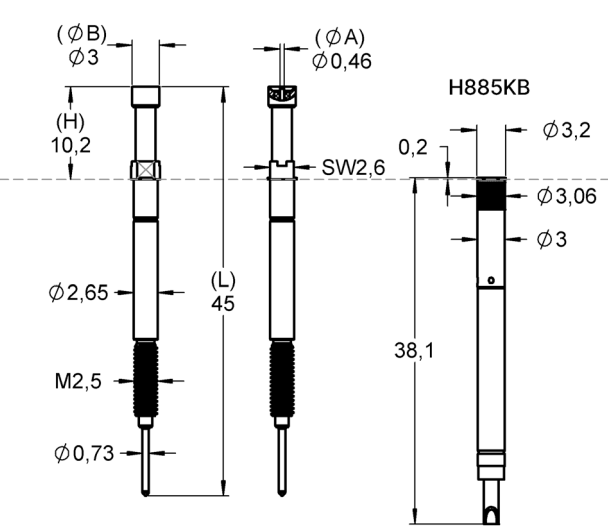
Drill size recommendation (mm)

Receptacle with knurl	3.00 - 3.02
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Order code	Product name	Power	Sense 1	Ø A	Ø B	C	H	Thread [M]	Version	FM Choice
1161312	F83511B0015G400S1	05	11	0.46	3.00	0	10.2	2.5	-	-

Series drawing

All measurements are in mm.



In the application of testing a HFM-Female connector the insulation protects the inner pin from dust and contamination and is more resistant to lateral forces.

KELVIN PROBES - F835 FOR FAKRA-FEMALE

NEW

F835
10 A | 138 mil | Threaded
For Fakra-Female



Electrical specifications

Temperature [°C]	-45°...+100°	
Impedanz [Ohm]	50	
Frequenz [GHz]	2	
	SENSE	POWER
Current [A]	2	10
R TYP [mOhm]	120	20

Mechanical specifications

	SENSE	POWER
Preload [cN]	55	80
Spring force [cN] at nt ±20%	100	300
Nominal travel [mm]	4.0	4.0
Maximum travel [mm]	5.0	5.0

Materials and plating

Contact SENSE	BeCu	gold plated
Contact POWER	BeCu	gold plated
Barrel	Brass	gold plated
Spring SENSE	Spring steel	silver plated
Spring POWER	Spring steel	gold plated
Receptacle	Brass	gold plated

Accessories

Further receptacles see H885 on our website.

1003642	FEWZ-774E0	Insertion tool receptacle
1009781	FWZ885T	Screw-in tool probe

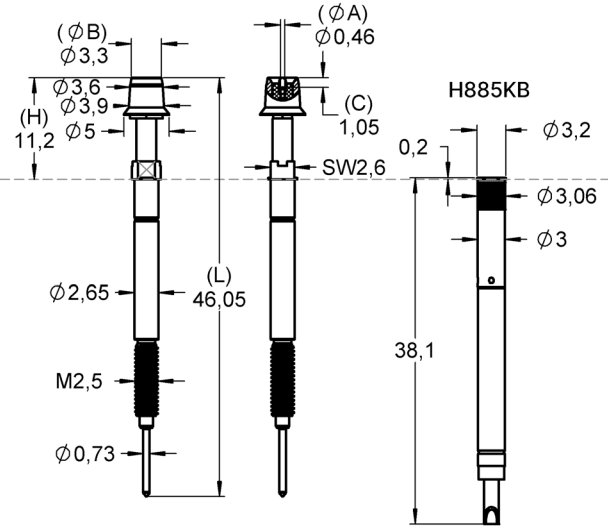
Drill size recommendation (mm)

Receptacle with knurl	3.00 - 3.02
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Order code	Product name	Power	Sense 1	Ø A	Ø B	C	H	Thread [M]	Version	FM Choice
1161570	F83511B0016G400S1	05	11	0.46	3.30	-1.05	11.2	2.5	-	-

Series drawing

All measurements are in mm.



In the application of testing a Fakra-Female connector the insulation protects the inner pin from dust and contamination and is more resistant to lateral forces.

KELVIN PROBES - F832 FOR FAKRA-FEMALE



NEW

F832
6 A | 295 mil | Threaded
For Fakra-Female connectors

Electrical specifications

Temperature [°C]	-45°...+200°	
	SENSE	POWER
Current [A]	1.6	6
R TYP [mOhm]	30	60

Mechanical specifications

	SENSE	POWER
Preload [cN]	100	250
Spring force [cN] at nt ±20%	130	450
Nominal travel [mm]	0.5	2.0
Maximum travel [mm]	0.6	2.6

Materials and plating

Contact SENSE	Steel	longtime gold plated
Contact POWER	BeCu	gold plated
Barrel	BeCu	gold plated
Spring SENSE	Stainless steel	unplated
Spring POWER	Stainless steel	unplated
Receptacle	Brass	gold plated

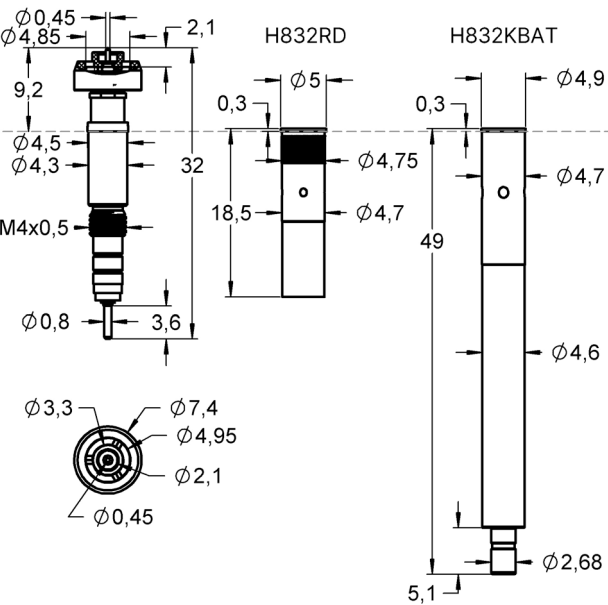
Accessories

Further receptacles see H832 on our website.		
1017393	FEWZ822E0	Insertion tool receptacle
1005954	FWZ733SP	Screw-in tool probe

Order code	Product name	Power	Sense 1	Ø A	Ø B	C	H	Thread [M]	Version	FM Choice
1163350	F83211S2001L450	17 	11 	0.45	4.85	2.1	9.2	M4x0.5	-	-

Series drawing

All measurements are in mm.



The F83211S2001L450 probe is designed to accurately detect bent lamellas in the Fakra connector — whether they are deformed inward or outward. With its high detection precision and robust design, this innovative solution enables early identification of potential quality issues in testing processes. By integrating the F83211S2001L450 into your application, you ensure consistent product quality, minimize downtime, and increase overall process reliability.

Drill size recommendation (mm)

Insulation receptacle H822IS	5.56 - 5.57
Receptacle with knurl	4.70 - 4.72
Receptacle without knurl	4.68 - 4.69

HIGH VOLTAGE PROBES - 1860S348 / 1860S353



NEW

1860S348 / 1860S353
5 A | 138 mil | Rigid probe

Electrical specifications

Temperature [°C]	-45°...+150°	
Current [A]	5	
R TYP [mOhm]	<10	

Materials and plating

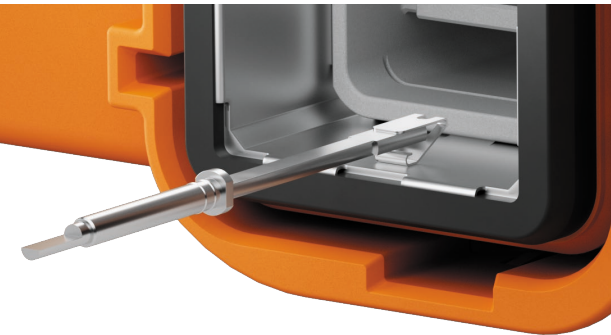
Spring element	Bronze	nickel plated
Plunger	Brass	nickel plated

Drill size recommendation (mm)

1145678	1860S348	2.02 - 2.07
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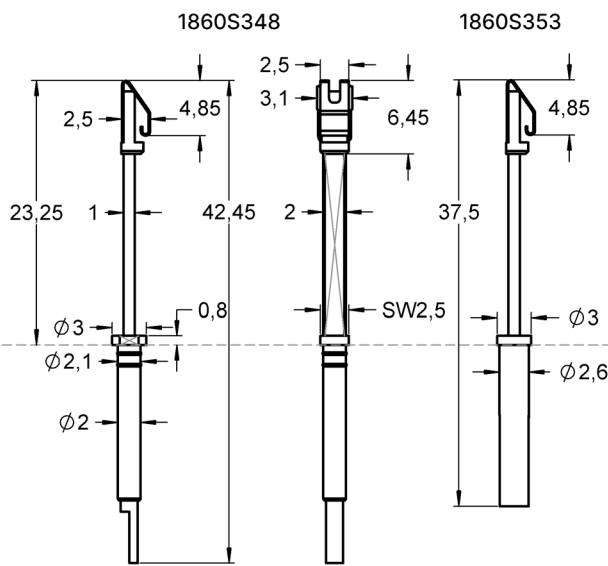
Accessories

1165158	H1860S353LA	Receptacle for 1860S353
1161993	FWZ860S348	Insertion tool probe



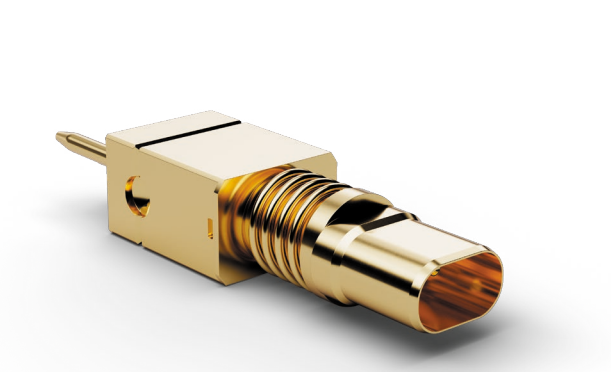
Series drawing

All measurements are in mm.



1860S348 and 1860S353 are rigid probes with a flexible spring element that enables (High Voltage) contacting of e.g. shields of E-Mobility connectors or lateral, flat surfaces. The probes are designed to overcome housing steps to reach the offset terminal with reliability. The rigid probe 1860S353 can be mounted in the receptacle H1860S353LA for solder connection.

Order code	Product name	Tip Style	Tip [mm]	Material/Plating	Force [cN]	Thread [M]	Version	FM Choice
1145678	1860S348		2.5x2.5	M / N	-	-	-	-
1160839	1860S353		2.5x2.5	M / N	-	-	-	-



NEW

F836
H-MTD Male 1-fold | no RF function

Electrical specifications

Temperature [°C]	-45°...+80°	
Current INTERNAL [A]	1.0	
Current CIRCULAR [A]	1.0	
R TYP [mOhm]	100	

Mechanical specifications

	2x SIGNAL	1x GROUND
Preload (cN)	20	150
Spring force at nt (cN ±20%)	85	450
Nominal travel (mm)	2.0	1.5
Maximum travel (mm)	2.8	2.0

Materials and plating

Contact SIGNAL	Steel	Longtime gold plated
Contact GROUND	Brass	gold plated
Barrel	Brass	gold plated
Spring SIGNAL	Spring steel	silver plated
Spring GROUND	Spring steel	gold plated

Accessories

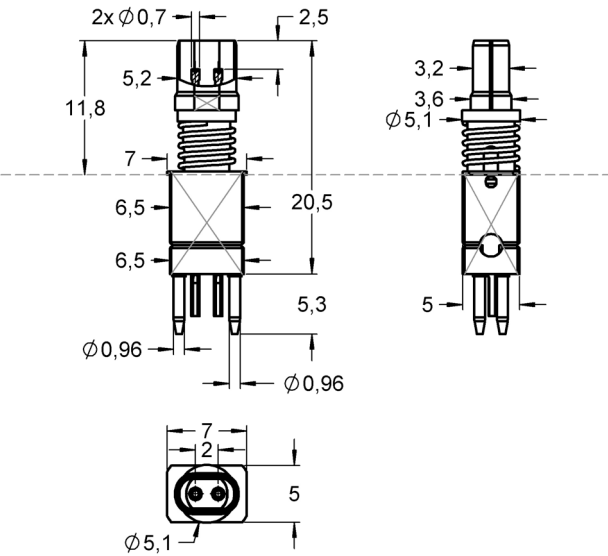
1160169	F11105S090L085S1	Inner pin
1168148	KT836K04	quad
1168149	KT836K02	double
1168150	KT836K01	single

Order code Product name

1167780	F83605S070L535-HMTDm
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Series drawing

All measurements are in mm.



The F83605S070L535-HMTDm is the first dedicated HMTD-male probe developed explicitly for the requirements of wire harness testing. Our probe is intentionally designed without RF functionality, providing a specialized and cost-optimized solution tailored to this application. In addition to being completely airtight, it ensures an exact grid fit, allowing flexible use as a single, double, or quad solution. The design also makes it possible to change the inner pins if necessary, so that the entire probe does not have to be replaced if an inner pin is defective.



NEW

F836
H-MTD Female 1-fold | no RF function

Electrical specifications

Temperature [°C]	-45°...+80°	
Current INTERNAL [A]	1.0	
Current CIRCULAR [A]	1.0	
R TYP [mOhm]	100	

Mechanical specifications

	2x SIGNAL	1x GROUND
Preload (cN)	20	150
Spring force at nt (cN ±20%)	85	450
Nominal travel (mm)	2.0	1.5
Maximum travel (mm)	2.8	2.0

Materials and plating

Contact SIGNAL	Steel	Longtime gold plated
Contact GROUND	Brass	gold plated
Barrel	Brass	gold plated
Spring SIGNAL	Spring steel	silver plated
Spring GROUND	Spring steel	gold plated

Accessories

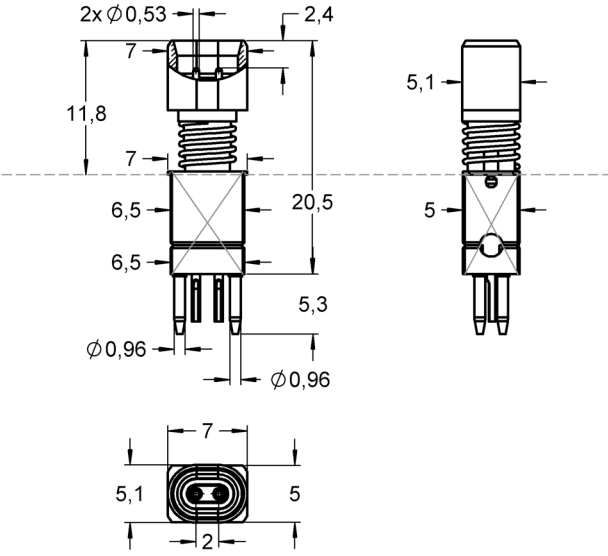
1160146	F11111S053L070S1	Inner pin
1168148	KT836K04	quad
1168149	KT836K02	double
1168150	KT836K01	single

Order code Product name

1167926	F83611S053L535-HMTDf
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Series drawing

All measurements are in mm.



The F83611S053L535-HMTDf is the first dedicated HMTD-female probe developed explicitly for the requirements of wire harness testing. Our probe is intentionally designed without RF functionality, providing a specialized and cost-optimized solution tailored to this application. In addition to being completely airtight, it ensures an exact grid fit, allowing flexible use as a single, double, or quad solution. The design also makes it possible to change the inner pins if necessary, so that the entire probe does not have to be replaced if an inner pin is defective.



NEW

F836
MTD Male 1-fold | no RF function

Electrical specifications

Temperature [°C]	-45°...+80°	
Current INTERNAL [A]	1.0	
Current CIRCULAR [A]	1.0	
R TYP [mOhm]	100	

Mechanical specifications

	2x SIGNAL	1x GROUND
Preload (cN)	20	150
Spring force at nt (cN ±20%)	85	450
Nominal travel (mm)	2.0	1.5
Maximum travel (mm)	2.8	2.0

Materials and plating

Contact SIGNAL	Steel	Longtime gold plated
Contact GROUND	Brass	gold plated
Barrel	Brass	gold plated
Spring SIGNAL	Spring steel	silver plated
Spring GROUND	Spring steel	gold plated

Accessories

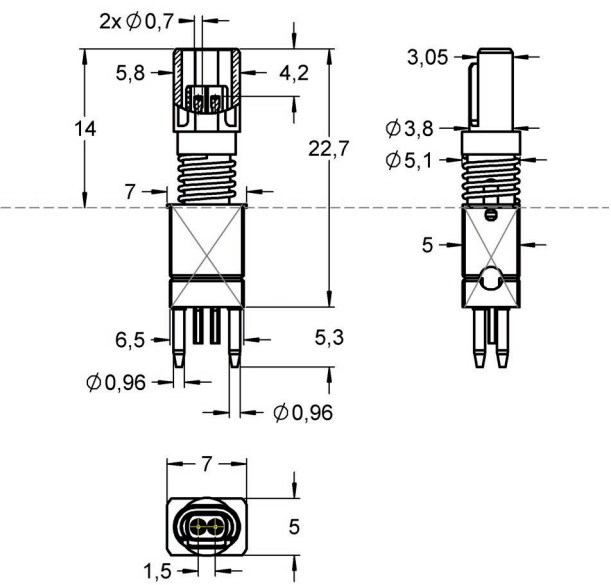
1160169	F11105S090L085S1	Inner pin
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Order code Product name

1168264	F83605S070L535-MTDm
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Series drawing

All measurements are in mm.



The F83605S070L535-MTDm is the first dedicated MTD-male probe developed explicitly for the requirements of wire harness testing. Our probe is intentionally designed without RF functionality, providing a specialized and cost-optimized solution tailored to this application. In addition to being completely airtight, it ensures an exact grid fit, allowing flexible use as a single, double, or quad solution. The design also makes it possible to change the inner pins if necessary, so that the entire probe does not have to be replaced if an inner pin is defective.



NEW

F836
MTD Female 1-fold | no RF function

Electrical specifications

Temperature [°C]	-45°...+80°	
Current INTERNAL [A]	1.0	
Current CIRCULAR [A]	1.0	
R TYP [mOhm]	100	

Mechanical specifications

	2x SIGNAL	1x GROUND
Preload (cN)	20	150
Spring force at nt (cN ±20%)	85	450
Nominal travel (mm)	2.0	1.5
Maximum travel (mm)	2.8	2.0

Materials and plating

Contact SIGNAL	Steel	Longtime gold plated
Contact GROUND	Brass	gold plated
Barrel	Brass	gold plated
Spring SIGNAL	Spring steel	silver plated
Spring GROUND	Spring steel	gold plated

Accessories

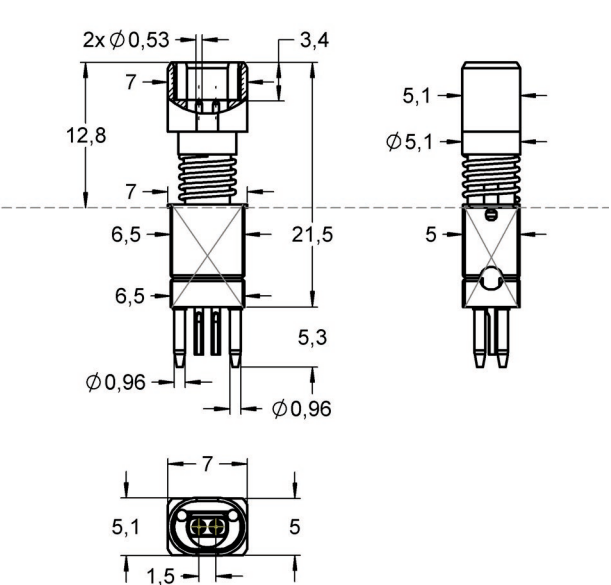
1160146	F11111S053L070S1	Inner pin
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Order code Product name

1168297	F83611S053L535-MTDf
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Series drawing

All measurements are in mm.

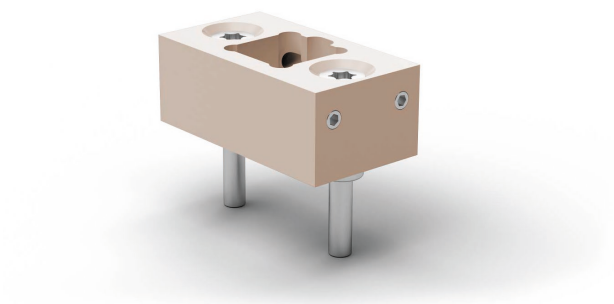


The F83611S053L535-MTDf is the first dedicated MTD-female probe developed explicitly for the requirements of wire harness testing. Our probe is intentionally designed without RF functionality, providing a specialized and cost-optimized solution tailored to this application. In addition to being completely airtight, it ensures an exact grid fit, allowing flexible use as a single, double, or quad solution. The design also makes it possible to change the inner pins if necessary, so that the entire probe does not have to be replaced if an inner pin is defective.

NEW

KT836

Mounting blocks for F836

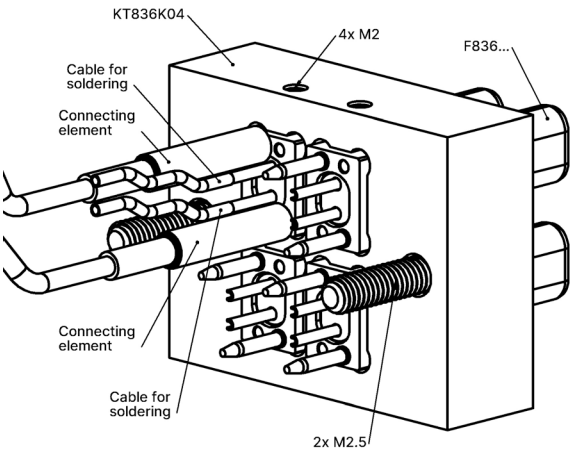


Materials and plating

Locating bracket	Peek	unplated
Order code	Product name	For DUT
1168148	KT836K04	quad
1168149	KT836K02	double
1168150	KT836K01	single

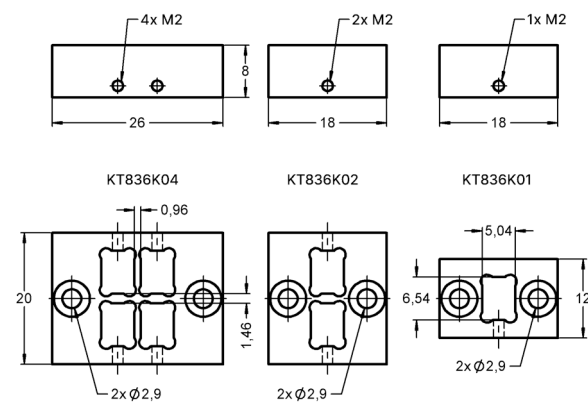
These holders allow the appropriate contact probes for the H-MTD connectors to be easily mounted and aligned. Depending on the test item (single, double, quad), 1-4 probes can be used.

Connection example

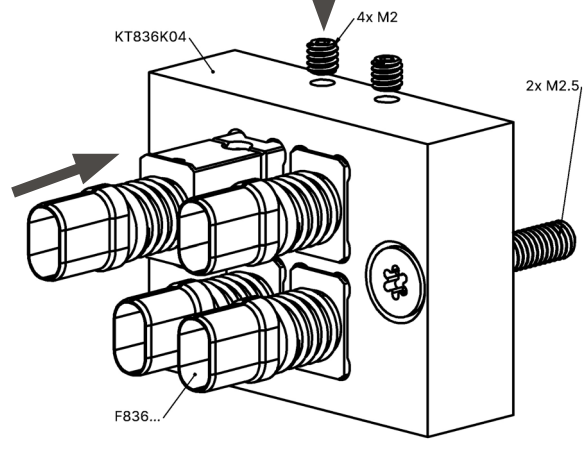


Series drawing

All measurements are in mm.



Mounting example



NEW

F888

Switch NO | 197 mil | Smallest ball switch



Electrical specifications

Temperature [°C]	-45°...+100°
Current [A]	5
Current switch [A]	1
R TYP [mOhm]	<25

Mechanical specifications

Switch travel [mm]	0.35
Preload [cN]	90
Spring force [cN] at nt ±20%	130
Nominal travel [mm]	0.80
Maximum travel [mm]	0.85

Materials and plating

Plunger	Steel	unplated
Barrel	Brass	gold plated
Spring	Spring steel	unplated
Receptacle	Brass	gold plated

Accessories

1143202	H888RDS2	Receptacle
1155754	H888AES1	Connecting element
1005027	FEWZ-735E0	Insertion tool receptacle
1001682	FWZ733	Insertion tool probe

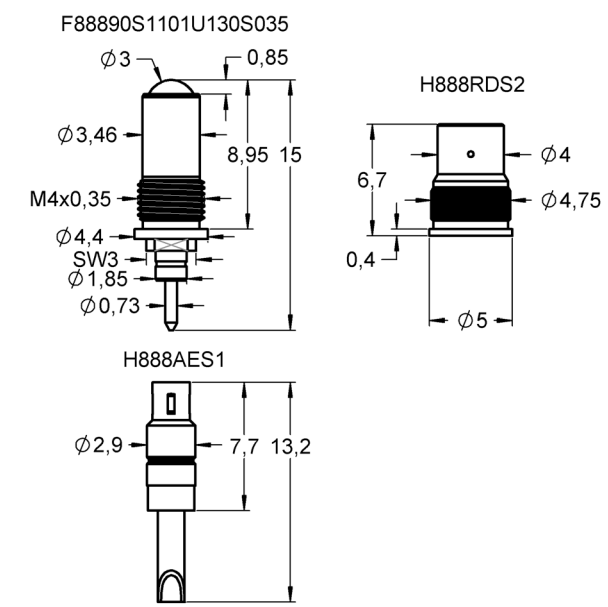
Drill size recommendation (mm)

1143202	H888RDS2	4.67 - 4.71
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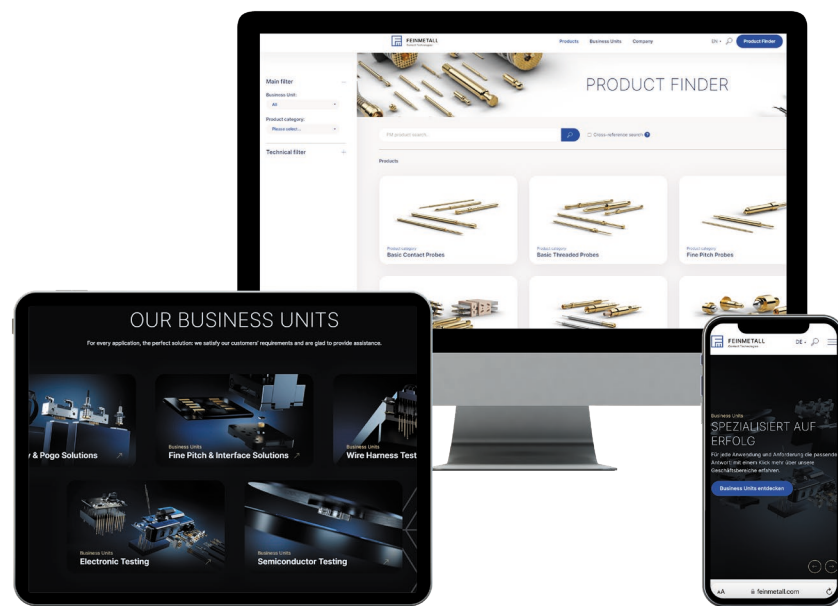
Order code	Product name	Tip Style	Tip Ø [mm]	Material / Plating	Force [cN]	Thread [M]	Version
1132733	F88890S1101U130S035	90	3.00	Steel; unplated	130	M4x0.35	S035

Series drawing

All measurements are in mm.



Due to a rolling ball as contact element probes of the series F888 are insensitive against lateral forces. A common application is the lateral presence test of connector housings in test modules. F88890S1101U130S035 is the smallest ball switch solution on the market and is especially designed for modules with limited space.



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