

**SAI M23 CRIMPING TOOL 1****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Weidmüller offers a wide range of tools and accessories for sensor-actuator cabling.

**General ordering data**

Version	Pressing tool for signal and power contacts, 4-indent crimp
Order No.	<a href="#">1203840000</a>
Type	SAI M23 CRIMPING TOOL 1
GTIN (EAN)	4032248986934
Qty.	1 pc(s).

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Dimensions and weights**

Length	230 mm	Length (inches)	9.055 inch
Net weight	1,146 g		

**Technical data**

Version	Mechanical, without inter-changeable inserts
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**Description of contact**

Conductor cross-section, max. AWG	AWG 10	Conductor cross-section, min. AWG	AWG 26
Type of contact	Turned contacts		

**tool data crimping**

Crimping type/profile	4-indent crimp	Wire end ferrules cross-section, max.	4 mm <sup>2</sup>
Wire end ferrules cross-section, min.	0.25 mm <sup>2</sup>		

**Classifications**

ETIM 6.0	EC000168	ETIM 7.0	EC000168
ETIM 8.0	EC000168	ETIM 9.0	EC000168
ECLASS 9.0	21-04-38-11	ECLASS 9.1	21-04-38-11
ECLASS 10.0	21-04-38-11	ECLASS 11.0	21-04-38-11
ECLASS 12.0	21-04-38-11	ECLASS 13.0	21-04-38-11

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	7baf363e-d867-435e-844e-c01f32ebf146

**Downloads**

Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a> <a href="#">FL FIELDWIRING EN</a>

## SAI M23 CRIMPING TOOL 1

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## Accessories

## 1.5 mm



The M23 round plug-in connectors offer a high number of mating cycles, high current-carrying capacity and high contact-density coupled with minimum dimensions. Enclosures, inserts and crimp contacts need to be ordered separately.

## General ordering data

Type	SAI-M23-KBC-1.5-.14-.56	Version
Order No.	<a href="#">1170230000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962129	
Qty.	50 pc(s).	
Type	SAI-M23-KBC-1.5-.56-1.0	Version
Order No.	<a href="#">1170240000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962150	
Qty.	50 pc(s).	
Type	SAI-M23-KSC-1.5-0.14-1	Version
Order No.	<a href="#">1170220000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962204	
Qty.	50 pc(s).	

## 2 mm



The M23 round plug-in connectors offer a high number of mating cycles, high current-carrying capacity and high contact-density coupled with minimum dimensions. Enclosures, inserts and crimp contacts need to be ordered separately.

## General ordering data

Type	SAI-M23-KSC-2-0.75-2.5	Version
Order No.	<a href="#">1170250000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962211	
Qty.	50 pc(s).	
Type	SAI-M23-KBC-2-0.75-2.5	Version
Order No.	<a href="#">1170260000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962099	
Qty.	50 pc(s).	

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## Accessories

## 2 mm



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## General ordering data

Type	SAI-M23-KBC-L-2.5-4.0	Version
Order No.	<a href="#">1170420000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962334	
Qty.	50 pc(s).	
Type	SAI-M23-KSC-L-0.75-2.5	Version
Order No.	<a href="#">1170400000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962365	
Qty.	50 pc(s).	
Type	SAI-M23-KBC-L-0.75/2.50	Version
Order No.	<a href="#">1995820000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248925681	
Qty.	50 pc(s).	
Type	SAI-M23-KSC-L-2.5-4.0	Version
Order No.	<a href="#">1170410000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962525	
Qty.	50 pc(s).	

## 1 mm



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## General ordering data

Type	SAI-M23-KBC-1.00-1.5	Version
Order No.	<a href="#">1170210000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962174	
Qty.	50 pc(s).	
Type	SAI-M23-KSC-0.08/0.56	Version
Order No.	<a href="#">1170140000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962235	
Qty.	50 pc(s).	

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## Accessories

Type	SAI-M23-KBC-0.08/0.56	Version
Order No.	<a href="#">1995860000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248926152	
Qty.	50 pc(s).	
Type	SAI-M23-KSC-1.00-1.5	Version
Order No.	<a href="#">1170170000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962310	
Qty.	50 pc(s).	
Type	SAI-M23-KBC-0.34/1.00	Version
Order No.	<a href="#">1170180000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962075	
Qty.	50 pc(s).	
Type	SAI-M23-KSC-0.14/1.00	Version
Order No.	<a href="#">1170150000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248961108	
Qty.	50 pc(s).	

## 1 mm



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## General ordering data

Type	SAI-M23-KSC-LS-0.25-1.0	Version
Order No.	<a href="#">1170390000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248962105	
Qty.	50 pc(s).	
Type	SAI-M23-KBC-LS-0.25-1.0	Version
Order No.	<a href="#">1995830000</a>	Sensor/Actuator plug-in connector, Crimp contact
GTIN (EAN)	4032248925698	
Qty.	50 pc(s).	

# Crimping settings

## Adjustment mechanism to set the crimping and locator position

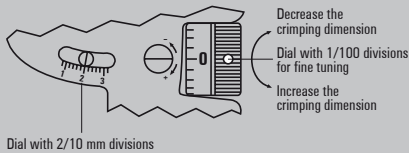
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### Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.  
The adjusting dial is used to prepare the infeed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

### Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale



### Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory.  
The actual crimping size should still be checked periodically.  
It should be checked using the plug gauge (Ø 2.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 2.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 2.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

### Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

### Technical data

Crimp contact	Wire cross-section (mm²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male, signal 1 mm	0.14	0.75	11	1170150000
	0.25	0.82		
	0.34	0.90		
	0.50	1.00		
	0.75	1.08		
	1.00	1.20		
Crimp female, signal 1 mm (0.08-0.56 mm²)	0.14	0.75	12	1995860000
	0.25	0.80		
	0.35	0.87		
	0.50	0.97		
Crimp female, signal 1 mm (0.34-1.00 mm²)	0.50	0.95	12	1170180000
	0.75	4.00		
	1.00	1.05		
Crimp male, signal 1.5 mm	0.14	0.75	3	1170220000
	0.25	0.82		
	0.35	0.90		
	0.50	0.96		
	0.75	1.03		
	1.00	1.00		
Crimp female, signal 1.5 mm	0.14	0.75	4	1170230000
	0.25	0.80		
	0.35	0.87		
	0.50	0.97		
Crimp female, signal 1.5 mm (0.34-1.00 mm²)	0.50	0.95	4	1170240000
	0.75	1.00		
	1.00	1.05		
Crimp male, signal 2 mm	0.75	1.30	5	1170250000
	1.00	1.40		
	1.50	1.55		
	2.50	1.75		
Crimp female, signal 2 mm	0.75	1.30	6	1170260000
	1.00	1.40		
	1.50	1.55		
	2.50	1.75		
Crimp male, power 1 mm	0.14	0.75	1	1170390000
	0.25	0.80		
	0.35	0.85		
	0.50	1.03		
	0.75	1.08		
	1.00	1.13		
Crimp female, power 1 mm	0.14	0.75	2	1995830000
	0.25	0.80		
	0.35	0.85		
	0.50	0.89		
	0.75	0.95		
	1.00	1.02		
Crimp male, power 2 mm	0.75	1.20	7	1170400000
	1.00	1.40		
	1.50	1.55		
	2.50	1.70		
Crimp male, power 2 mm	2.50	1.47	7	1170410000
	4.00	1.60		
Crimp female, power 2 mm	0.75	1.20	8	1995820000
	1.00	1.40		
	1.50	1.55		
	2.50	1.70		
Crimp female, power 2 mm	2.50	1.47	8	1170420000
	4.00	1.60		

### Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 1	1203840000