



**ELECTROUSTIC**  
DISTRIBUTION OF CONNECTIVITY SOLUTIONS



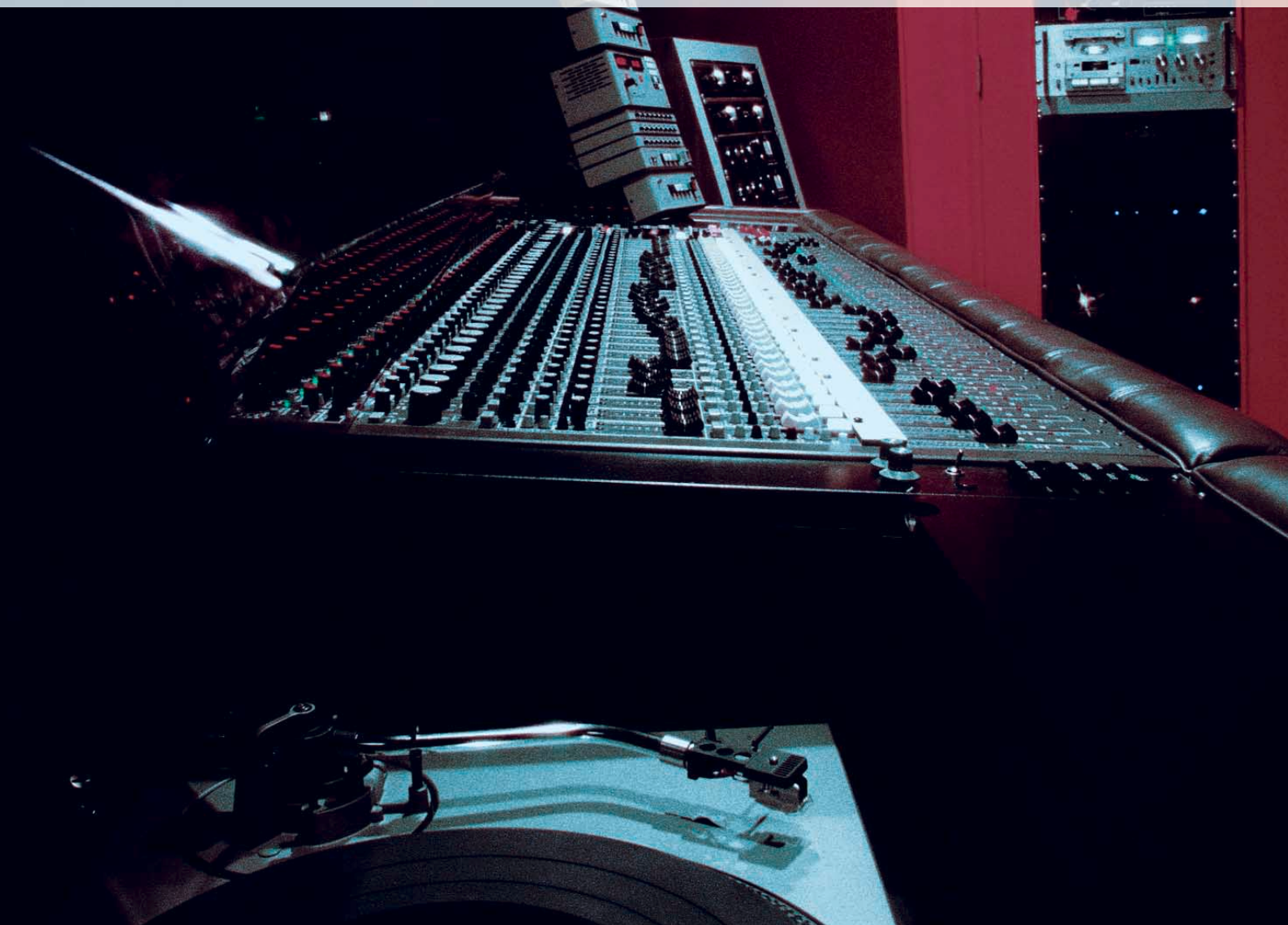
**HIRSCHMANN**

Automation and Network Solutions

# Entertainment in Series – Round Connectors by HIRSCHMANN.



# THE COMPETITION IS GOING TO THE VERY ENDS OF THE EARTH.



For some time now, the best deals are no longer limited by boundaries: the world itself has become the marketplace.

Because irrespective of whether you are in the field of computers, medicine, IT, industrial automation, measurement and control technology, entertainment and electronics, public address systems, indicating and safety equipments or AV and multimedia presentation technology – it is often just a mouse click that separates

the winners from the losers. And those who want to win against global competition have to satisfy international standards down to the last detail. Because suppliers who can't make it over the herding pond today may be at sea tomorrow – forever.

A universal interface technology is therefore more than just a necessity for competitive consumer electronics. A decision

*For Hirschmann communication and entertainment devices to remain competitive worldwide, not only must they be priced right, but it should also be possible to use them anywhere in the world.*



**There was a time when it took 80 days  
to circle the globe. Today you can do it  
in a couple of seconds on the Internet.**



to purchase plug connectors that meet international standards from specialists is insurance for the future. In an increasingly technology-driven world, there simply is no pause button: every device must be ready to operate immediately, anywhere.

Universal interfaces are an important part of the automation technology of Hirschmann Electronics – all our knowledge and skill in the field of “Automation and Network Solutions” is available to you. Our range of products extends from robust plugs for actuators and sensors through high performance field bus systems to multifaceted components for ETHERNET, Fast-ETHERNET and Gigabit-ETHERNET.

In ETHERNET applications, Hirschmann’s core competency lies in the field of industrial ETHERNET – in this highly demanding arena, we have a strong focus on research and development. And thereby we make our clients a truly unique offer: open, highly accessible industrial communication solutions ranging from plug connectors through to the management level. With everything under one roof: and with the reliability that our business partners have come to expect from Hirschmann over the last 75 years.

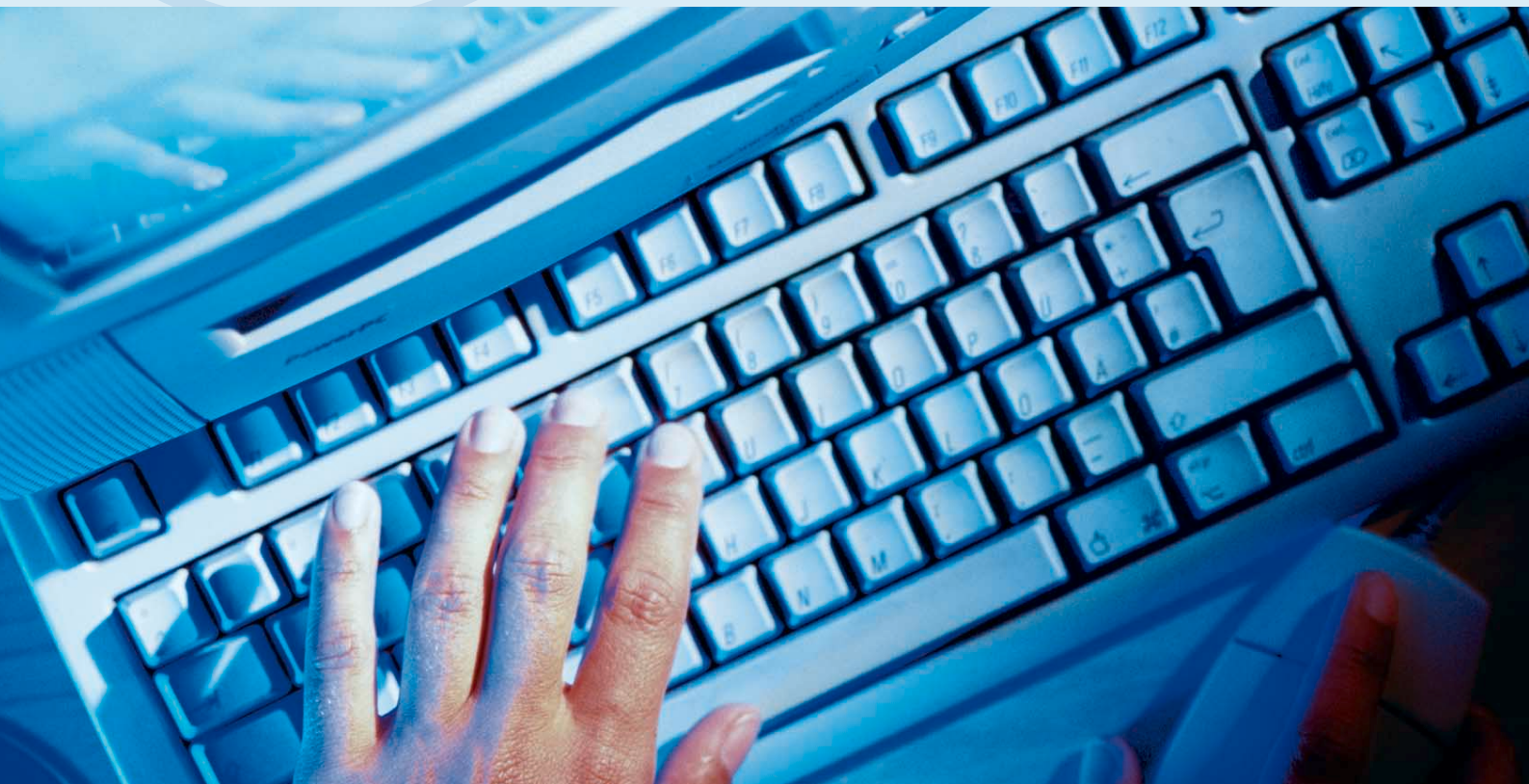


# THE STANDARD IS THE EXCEPTION.

Hirschmann offers you technical competence and understanding coupled with a high level of commitment. We do everything we possibly can for you. There is only one thing that we do not do – compromise on quality. We therefore first extensively test each product from our comprehensive range of systems before it leaves our works. Only then is it delivered to you. With our highest recommendations.

Communication and entertainment systems should make things as easy as possible for users anywhere in the world: Plug & Play, for hi-fi installations and projectors, microphones and public address systems, PC peripherals and application programming interfaces in industrial automation as well as burglary and fire alarm systems therefore, there is only one global standard for the perfect connection: Hirschmann's MAS/MAK and MIS/MIK round connectors meet every requirement – and can truly provide a secure connection in any kind of application.

*A new computer is to be installed. And the old computer's keyboard is still working OK. But why should you let such an insignificant trifle as a plug connection become a hurdle for your organization?*





Those who can't afford connection problems, can't afford to be pound foolish.



You can select from a wide range of well-established products and practice-oriented innovations: screened small and multiple MAS/MAK 3- to 8-pole and 10- to 14-pole screened small and multiple MIS/MIK connectors in a variety of shapes and sizes. Equipped with all the application specific properties that you may require; with clamping saddles for strain relief; together with an additional screw-type connection for even greater safety. In

order to ensure that the connection also gives you what you expect from it – as long as you want.

We would be happy to provide you with advice concerning your applications on request.

#### ***General product characteristics***

- ***Screened small and multifaceted plugs.***
- ***Many pole combinations (3-14) and models.***
- ***Plug type connections capable of locking with a screw connection.***

#### ***Advantages***

- ***Global standard.***
- ***Compact size.***
- ***Tried and tested technology.***
- ***Multifaceted application.***

## ITS THE LITTLE THINGS THAT MAKE THE DIFFERENCE!

*When the global marketplace is just about big enough for you, a secure connection is anything but a trifling matter: Round connectors MAS/MAK and MIS/MIK by Hirschmann connect your audio and video devices, measurement, control, medical and computer equipment as well as the electronic control systems of slide and film projectors, photographic, film and television cameras, in many practice-oriented forms. You can choose between 3 to 14 poles and various pin arrangements, grey or black color, individually or batched in packing units of 50 pieces in poly bags, and as 1,000-unit industrial packing (UM).*

### SHIELDED CONNECTORS

PAGE 8



#### MAS/MIS

*Rediscover this modern classic from the world of entertainment electronics for your own application: shielded MAS/MAK connectors provide you with an universal connection in many different versions.*



### SHIELDED ANGLE CONNECTORS

PAGE 18



#### MAWI/MIWI

*When you have to think ahead, one decision is certainly an easy one: shielded angle connectors MAWI/MIWI with directional cable threading optimally use the available space.*



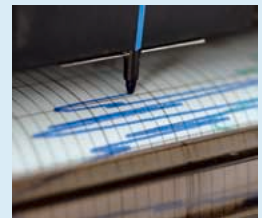
### SHIELDED PANEL-MOUNTED CONNECTORS

PAGE 24



#### MASEI

*For Hirschmann, robustness means that in spite of its compact design, one should not underestimate this connector: the die-cast panel-mounted MASEI connector sets up a direct and reliable connection to the client housing for especially long periods.*



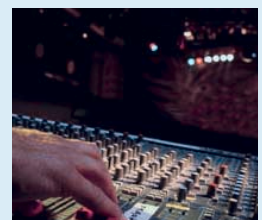
### SHIELDED COUPLINGS

PAGE 26



#### MAK/MIK

*Thinking ahead is one of the most important tasks of our engineers: shielded Hirschmann MAK/MIK couplings are used wherever you require an extension line.*



### SHIELDED PANEL-MOUNTED SOCKETS

PAGE 32



#### MAB/MIB

*Uniquely versatile: shielded MAB/MIB panel-mounted sockets can be optimally used in cable connections and PCB's, and in particular, they find universal application in entertainment electronics equipment, measuring devices or as programming interfaces for control systems, for example as programmable memory controllers in automation.*



## THREADED, SHIELDED CONNECTORS

PAGE 40



### MAS/MIS 1000 PLUS

*A good connection must be able to withstand a lot: shielded connectors with threaded MAS/MIS 1000 Plus offer you protection against accidental disconnection and even today, this is what makes this classic popular at every pop concept – one place where you cannot afford to allow even a single connection to fail.*



## THREADED, SHIELDED ANGLE CONNECTORS

PAGE 48



### MAWI 1000 PLUS

*We don't need extra space to provide you extra fail safety: shielded angle connectors MAWI 1000 Plus with locking screw help you utilize the available space optimally.*



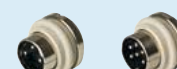
## THREADED, SHIELDED PANEL-MOUNTED CONNECTORS

PAGE 50



### MASEI 1000 PLUS

*Fit this and it will hold out for the entire life of a product: shielded panel-mounted connectors MASEI 1000 Plus with locking screw are safe against accidental disconnection, no matter where a device is required to perform with reliability.*



## THREADED, SHIELDED COUPLINGS

PAGE 52



### MAK/MIK 1000 PLUS

*A wise, safe decision: quite simply, you can use shielded couplings MAK/MIK 1000 Plus with locking screw wherever you cannot afford disconnections even under extreme stress.*



## THREADED, SHIELDED PANEL-MOUNTED SOCKETS

PAGE 60



### MAB/MIB 1000 PLUS

*With these, vibrations are not an issue any longer: shielded panel-mounted sockets MAB/MIB 1000 Plus with locking screw secure not only your cable connections and PCB's against accidental disconnection, but also the entire range of entertainment electronics equipments and measuring devices.*

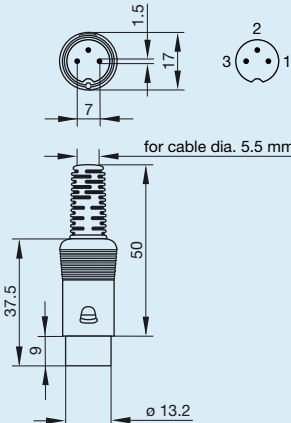
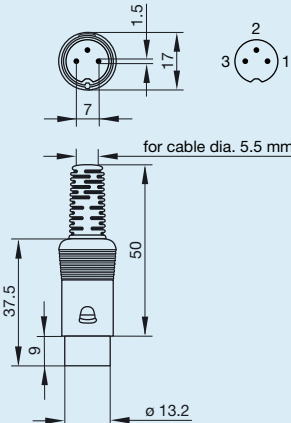


# MINIATURE MULTIPLE CONNECTORS

## Straight plugs

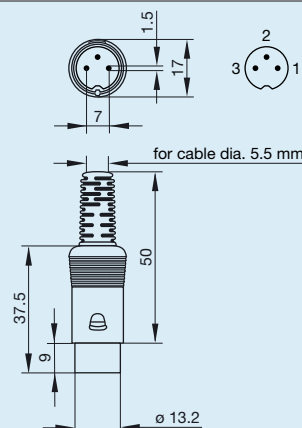
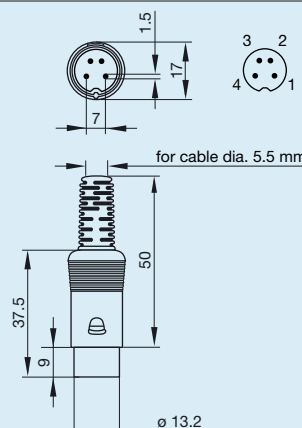
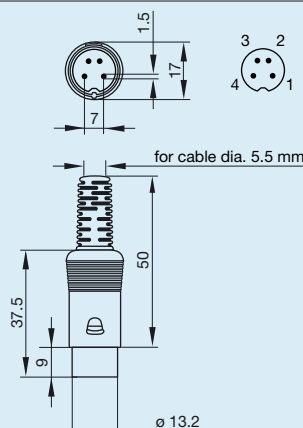
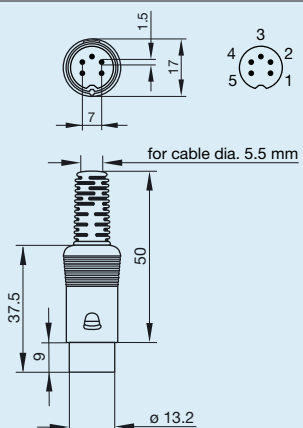


WITHOUT LOCKING SCREW

Product description			
Type	MAS 30 grau/grey	MAS 30 UM grau/grey	
Order No.	930 014-517	931 002-117	
Type of contact	male	male	
Description	plug with insulated handle; solder joint	plug with insulated handle; solder joint	
Housing colour	grey	grey	
Poles	3	3	
Conductor cross-section	≤ 0.34 mm²	≤ 0.34 mm²	
Drawing			
			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41524	DIN 41 524	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	





MAS 30 UM schwarz/black	MAS 40 grau/grey	MAS 40 UM grau/grey	MAS 50 grau/grey
931 002-100	930 015-517	931 018-117	930 016-517
male	male	male	male
plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint
black	grey	grey	grey
3	4	4	5
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524			
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

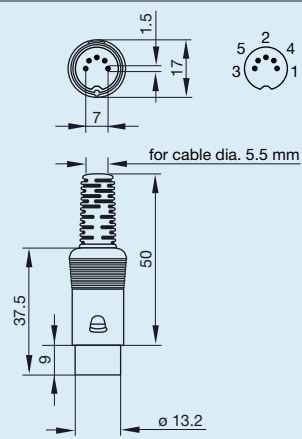
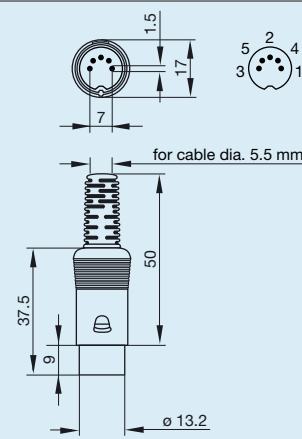
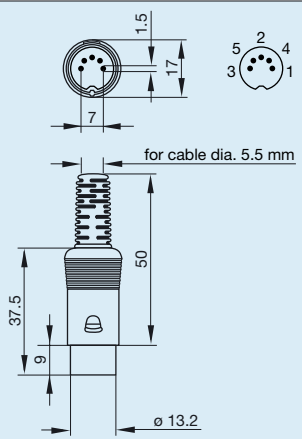
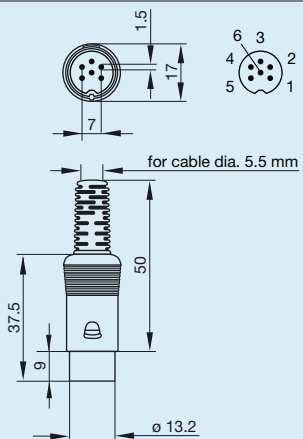
## Straight plugs



WITHOUT LOCKING SCREW

Product description			
Type	MAS 50 UM schwarz/black	MAS 50 S grau/grey	
Order No.	931 034-100	930 131-517	
Type of contact	male	male	
Description	plug with insulated handle; solder joint	plug with insulated handle; solder joint	
Housing colour	black	grey	
Poles	5	5	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	



	<b>MAS 50 S schwarz/black</b>	<b>MAS 50 S UM grau/grey</b>	<b>MAS 50 S UM schwarz/black</b>	<b>MAS 60 grau/grey</b>
	930 131-500	931 036-117	931 036-100	930 017-517
	male	male	male	male
	plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint
	black	grey	black	grey
	5	5	5	6
	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
				
	EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	DIN 41 524	DIN 41 524	DIN 41 524	DIN 45 322
	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
	UC 34 V	UC 34 V	UC 34 V	UC 34 V
	5.5 mm	5.5 mm	5.5 mm	5.5 mm
	solder	solder	solder	solder
	brass	brass	brass	brass
	tin plated	tin plated	tin plated	tin plated
	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
	PE	PE	PE	PE
	IP 30	IP 30	IP 30	IP 30
	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

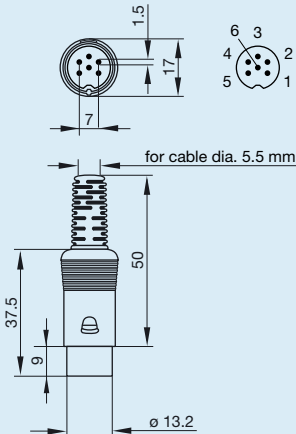
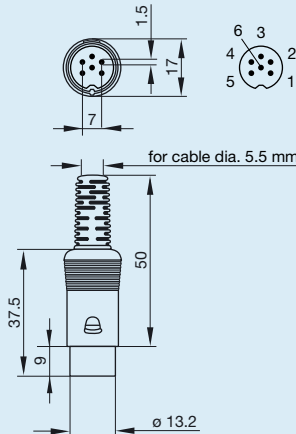


# MINIATURE MULTIPLE CONNECTORS

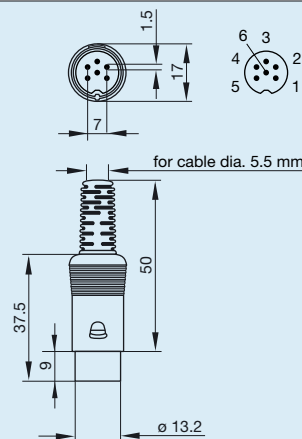
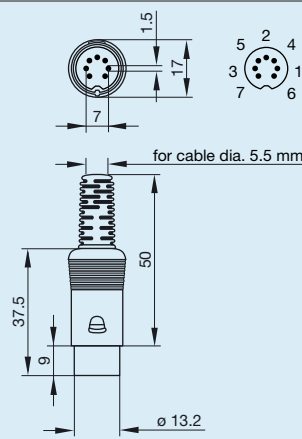
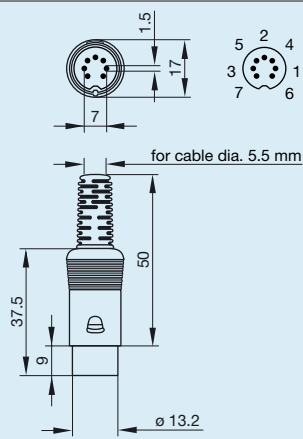
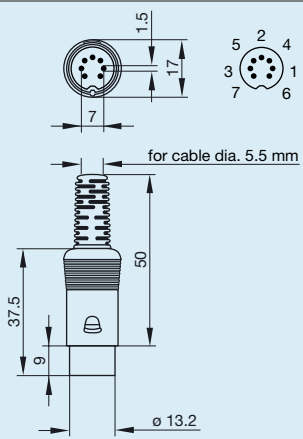
## Straight plugs



WITHOUT LOCKING SCREW

Product description		
Type	MAS 60 schwarz/black	MAS 60 UM grau/grey
Order No.	930 017-500	931 044-117
Type of contact	male	male
Description	plug with insulated handle; solder joint	plug with insulated handle; solder joint
Housing colour	black	grey
Poles	6	6
Conductor cross-section	≤ 0.34 mm²	≤ 0.34 mm²
Drawing		
		
Technical data		
Standard	EN 60 130-09	EN 60 130-09
Pole arrangement DIN	DIN 45 322	DIN 45 322
Rated current	≤ 4 A	≤ 4 A
Rated voltage	UC 34 V	UC 34 V
Cable diameter	5.5 mm	5.5 mm
Type of termination	solder	solder
Material		
Contact material	brass	brass
Contact surface material	tin plated	tin plated
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
Housing material	PE	PE
Environmental conditions		
Protection class (IEC 60529)	IP 30	IP 30
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C
Scope of delivery and accessories		
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted



MAS 60 UM schwarz/black	MAS 70 S grau/grey	MAS 70 S schwarz/black	MAS 70 S UM grau/grey
931 044-100	930 356-517	930 356-500	931 050-117
male	male	male	male
plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint
black	grey	black	grey
6	7	7	7
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 45 322	DIN 45 329	DIN 45 329	DIN 45 329
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted

# MINIATURE MULTIPLE CONNECTORS

## Straight plugs

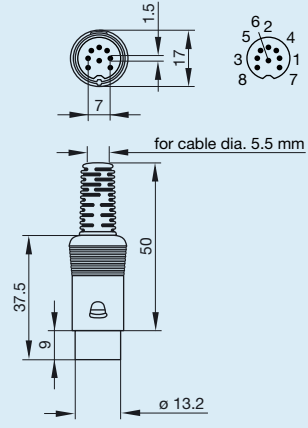
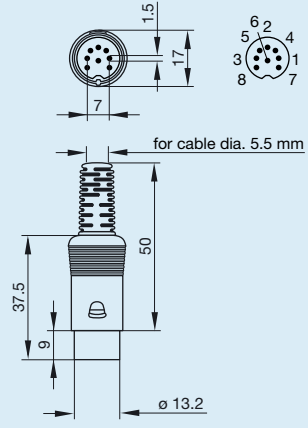
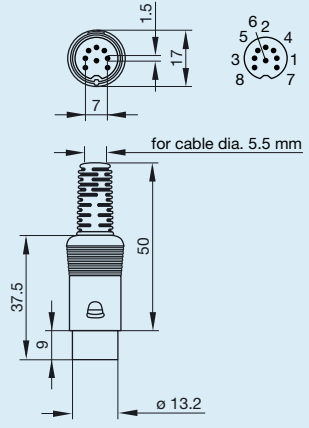
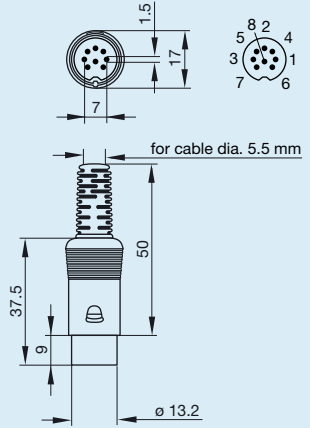


WITHOUT LOCKING SCREW

Product description			
Type	MAS 70 5 UM schwarz/black	MAS 80 5 grau/grey	
Order No.	931 050-100	930 298-517	
Type of contact	male	male	
Description	plug with insulated handle; solder joint	plug with insulated handle; solder joint	
Housing colour	black	grey	
Poles	7	8	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 329	DIN 41 524 (pin 1-5)	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	





	<b>MAS 80 S schwarz/black</b>	<b>MAS 80 S UM grau/grey</b>	<b>MAS 80 S UM schwarz/black</b>	<b>MAS 80 SN grau/grey</b>
	930 298-500	931 183-117	931 183-100	931 518-517
	male	male	male	male
	plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint
	black	grey	black	grey
	8	8	8	8
	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
				
	EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	DIN 41 524 (pin 1-5)	DIN 41 524 (pin 1-5)	DIN 41 524 (pin 1-5)	DIN 45 326
	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
	UC 34 V	UC 34 V	UC 34 V	UC 34 V
	5.5 mm	5.5 mm	5.5 mm	5.5 mm
	solder	solder	solder	solder
	brass	brass	brass	brass
	tin plated	tin plated	tin plated	tin plated
	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
	PE	PE	PE	PE
	IP 30	IP 30	IP 30	IP 30
	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

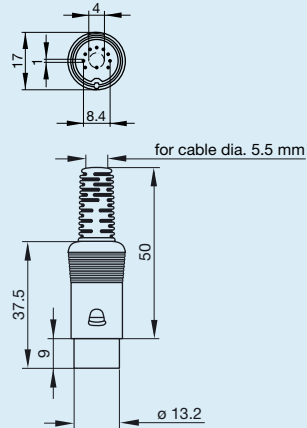
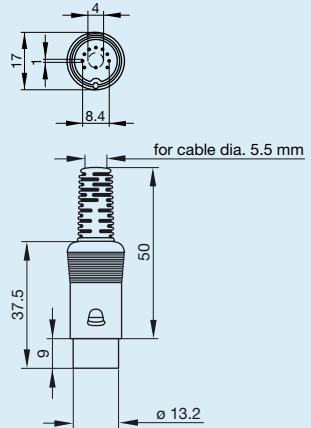
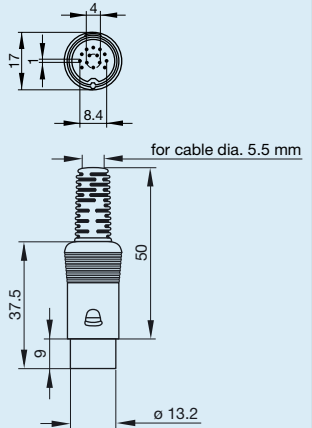
## Straight plugs



WITHOUT LOCKING SCREW

Product description			
Type	MAS 80 SN schwarz/black	MAS 80 SN UM schwarz/black	
Order No.	931 518-500	931 521-100	
Type of contact	male	male	
Description	plug with insulated handle; solder joint	plug with insulated handle; solder joint	
Housing colour	black	black	
Poles	8	8	
Conductor cross-section	≤ 0.34 mm <sup>2</sup>	≤ 0.34 mm <sup>2</sup>	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 326	DIN 45 326	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	

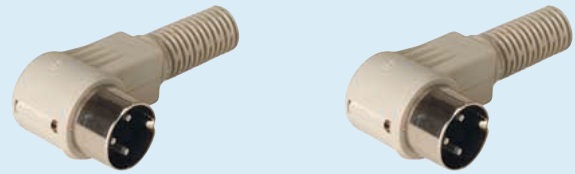


MIS 100 UM grau/grey	MIS 100 UM schwarz/black	MIS 140 schwarz/black	
931 826-117	931 826-100	932 222-500	
male	male	male	
plug with insulated handle; solder joint	plug with insulated handle; solder joint	plug with insulated handle; solder joint	
grey	black	black	
10	10	14	
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	
$\leq 3 \text{ A}$	$\leq 3 \text{ A}$	$\leq 3 \text{ A}$	
UC 34 V	UC 34 V	UC 34 V	
5.5 mm	5.5 mm	5.5 mm	
solder	solder	solder	
brass	brass	brass	
tin plated	tin plated	tin plated	
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
PE	PE	PE	
IP 30	IP 30	IP 30	
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	
industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	



# MINIATURE MULTIPLE CONNECTORS

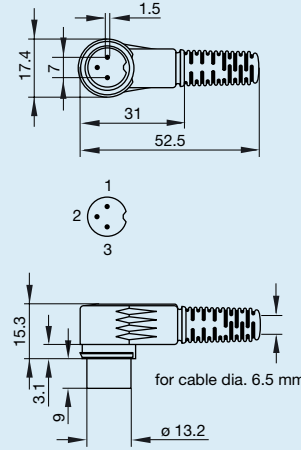
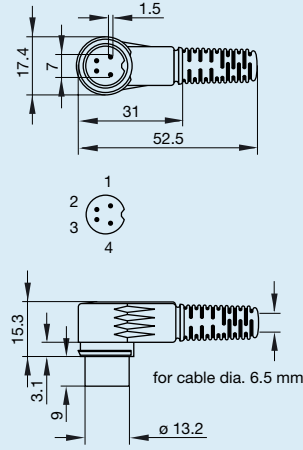
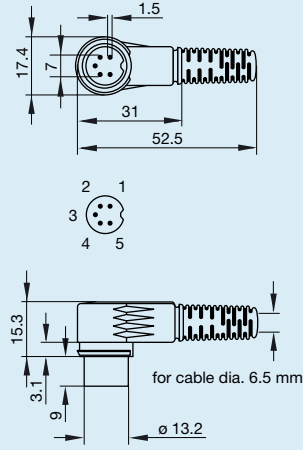
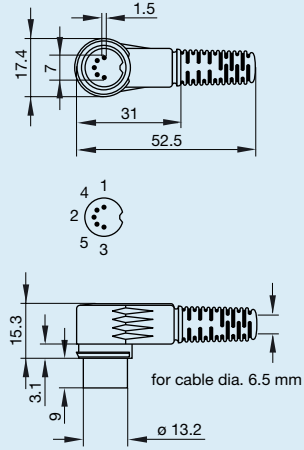
## Angled plugs



WITHOUT LOCKING SCREW

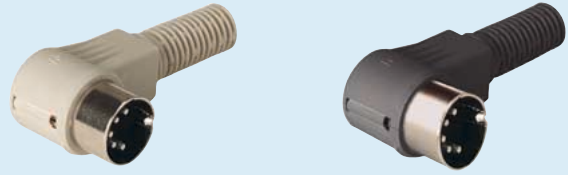
Product description			
Type	MAWI 30 B grau/grey	MAWI 30 B UM grau/grey	
Order No.	931 597-517	931 621-117	
Type of contact	male	male	
Description	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	
Housing colour	grey	grey	
Poles	3	3	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	6.5 mm	6.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	



MAWI 30 B UM schwarz/black	MAWI 40 B grau/grey	MAWI 50 B grau/grey	MAWI 50 SB grau/grey
931 621-100	931 567-517	931 569-517	931 571-517
male	male	male	male
angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	Angled plug with insulated handle; solder joint
black	grey	grey	grey
3	4	5	5
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524			DIN 41 524
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
6.5 mm	6.5 mm	6.5 mm	6.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	Pa 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	retail package, polyethylene bag	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

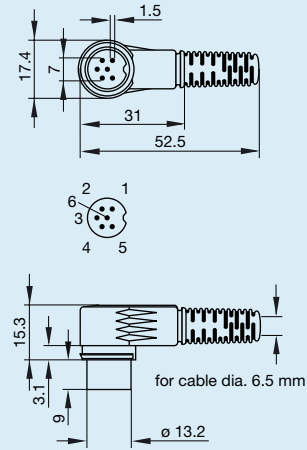
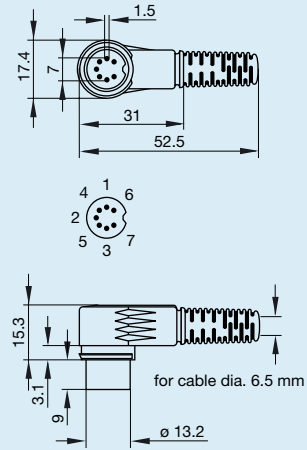
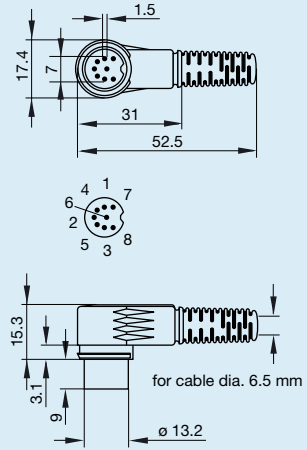
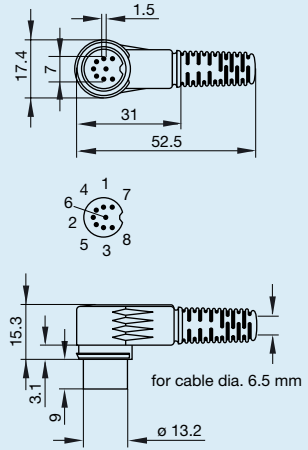
## Angled plugs



WITHOUT LOCKING SCREW

Product description			
Type	MAWI 50 SB UM grau/grey	MAWI 50 SB UM schwarz/black	
Order No.	931 572-117	931 572-100	
Type of contact	male	male	
Description	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	
Housing colour	grey	black	
Poles	5	5	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	6.5 mm	6.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	



MAWI 60 B grau/grey	MAWI 70 SB grau/grey	MAWI 80 SB grau/grey	MAWI 80 SB UM grau/grey
931 573-517	931 575-517	931 740-517	931 741-117
male	male	male	male
angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint
grey	grey	grey	grey
6	7	8	8
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 45 322	DIN 45 329	DIN 41 524 (pins 1-5)	DIN 41 524 (pins 1-5)
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
6.5 mm	6.5 mm	6.5 mm	6.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
retail package, polyethylene bag	retail package, polyethylene bag	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted



# MINIATURE MULTIPLE CONNECTORS

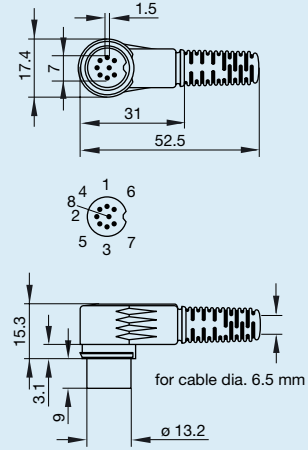
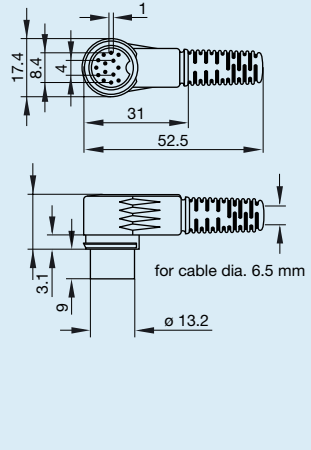
## Angled plugs



WITHOUT LOCKING SCREW

Product description			
Type	MAWI 80 SB UM schwarz/black	MAWI 80 SN B grau/grey	
Order No.	931 741-100	931 577-517	
Type of contact	male	male	
Description	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint	
Housing colour	black	grey	
Poles	8	8	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524 (pins 1-5)	DIN 45 326	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	6.5 mm	6.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	



	<b>MAWI 80 SN B UM schwarz/black</b>	<b>MIWI 140 grau/grey</b>		
	931 578-100	932 943-117		
	male	male		
	angled plug with insulated handle; solder joint	angled plug with insulated handle; solder joint		
	black	grey		
	8	14		
	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$		
				
	EN 60 130-09	EN 60 130-09		
	DIN 45 326			
	$\leq 4 \text{ A}$	$\leq 3 \text{ A}$		
	UC 34 V	UC 34 V		
	6.5 mm	5.5 mm		
	solder	solder		
	brass	brass		
	tin plated	tin plated		
	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2		
	PE	PE		
	IP 30	IP 30		
	-20 °C to +60 °C	-20 °C to +60 °C		
	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag		

# MINIATURE MULTIPLE CONNECTORS

## Panel-mounted plugs



WITHOUT LOCKING SCREW

Product description			
Type	MASEI 3 schwarz/black	MASEI 5 S schwarz/black	
Order No.	930 063-500	930 934-500	
Type of contact	male	male	
Colour	black	black	
Description	panel-mounted plug with flange; solder joint; die-cast housing and flange, nickel-plated	panel-mounted plug with flange; solder joint; die-cast housing and flange, nickel-plated	
Poles	3	5	
Conductor cross-section	≤ 0.34 mm <sup>2</sup>	≤ 0.34 mm <sup>2</sup>	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL-standard 94V-2	
Housing material	diecast	diecast	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	

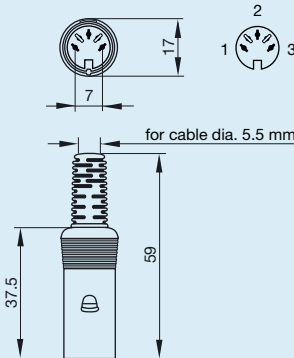
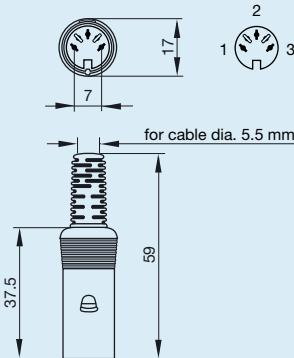
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# MINIATURE MULTIPLE CONNECTORS

## Straight sockets

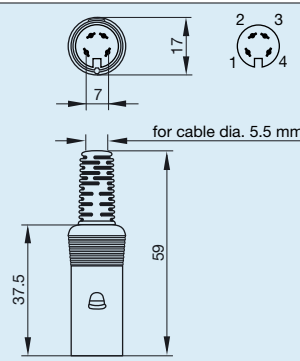
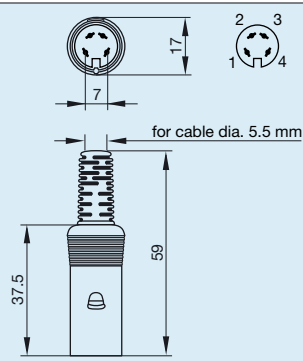
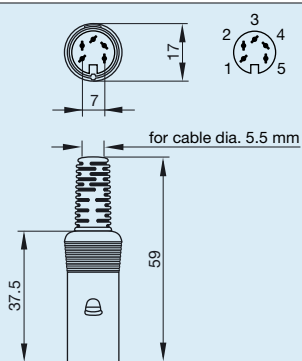
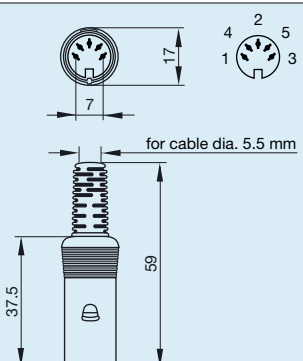


WITHOUT LOCKING SCREW

Product description			
Type	MAK 30 S grau/grey	MAK 30 S UM grau/grey	
Order No.	930 149-517	931 080-117	
Type of contact	female	female	
Description	socket with insulated handle; solder joint	socket with insulated handle; solder joint	
Housing colour	grey	grey	
Poles	3	3	
Conductor cross-section	≤ 0.34 mm²	≤ 0.34 mm²	
Drawing			
			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	





MAK 40 grau/grey	MAK 40 UM grau/grey	MAK 50 grau/grey	MAK 50 S grau/grey
930 150-517	931 086-117	930 151-517	930 172-517
female	female	female	female
socket with insulated handle; solder joint	socket with insulated handle; solder joint	socket with insulated handle; solder joint	socket with insulated handle; solder joint
grey	grey	grey	grey
4	4	5	5
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

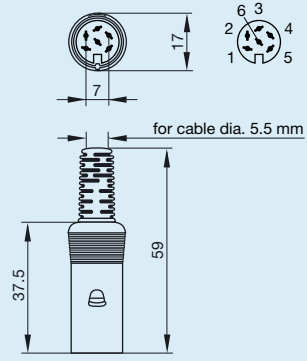
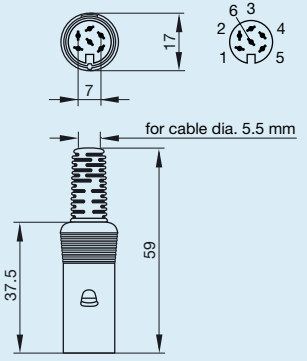
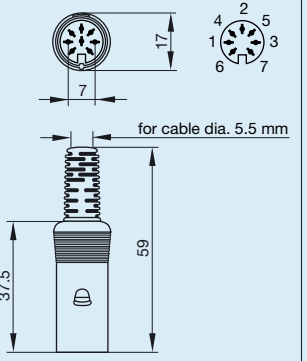
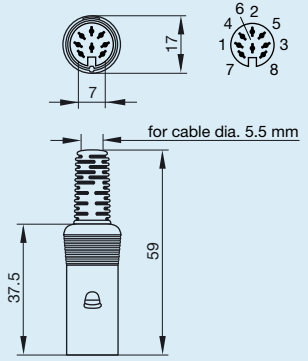
## Straight sockets



WITHOUT LOCKING SCREW

Product description			
Type	MAK 50 S UM grau/grey	MAK 50 S UM schwarz/black	
Order No.	931 092-117	931 092-100	
Type of contact	female	female	
Description	socket with insulated handle; solder joint	socket with insulated handle; solder joint	
Housing colour	grey	black	
Poles	5	5	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	



MAK 60 grau/grey	MAK 60 UM schwarz/black	MAK 70 S grau/grey	MAK 80 S grau/grey
930 152-517	931 100-100	930 388-517	930 348-517
female	female	female	female
socket with insulated handle; solder joint	socket with insulated handle; solder joint	socket with insulated handle; solder joint	socket with insulated handle; solder joint
grey	black	grey	grey
6	6	7	8
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 45 322	DIN 45 322	DIN 45 329	DIN 41 524 (sockets 1-5)
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

## Straight sockets



WITHOUT LOCKING SCREW

Product description			
Type	MAK 80 SN grau/grey	MIK 140 UM schwarz/black	
Order No.	931 519-517	932 224-100	
Type of contact	female	female	
Description	socket with insulated handle; solder joint	socket with insulated handle; solder joint	
Housing colour	grey	black	
Poles	8	14	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 326		
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	

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# MINIATURE MULTIPLE CONNECTORS

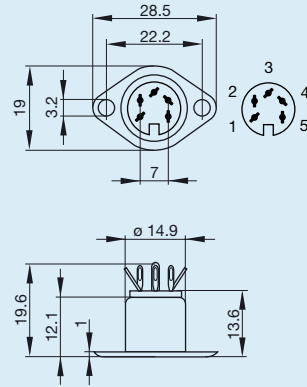
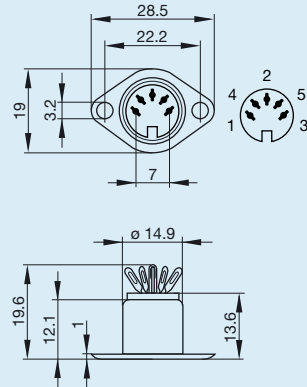
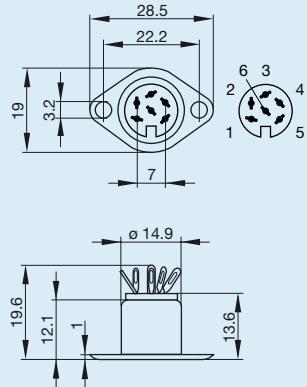
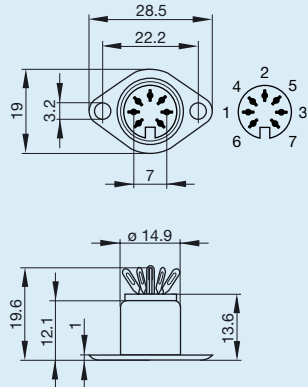
## Panel-mounted sockets



WITHOUT LOCKING SCREW

Product description			
Type	<b>MAB 3 S</b>	<b>MAB 4</b>	
Order No.	930 018-200	930 009-200	
Type of contact	female	female	
Description	panel-mounted socket with flange; solder joint	panel-mounted socket with flange; solder joint	
Colour			
Poles	3	4	
Conductor cross-section	≤ 0.34 mm <sup>2</sup>	≤ 0.34 mm <sup>2</sup>	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524		
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	steel, nickel-plated	steel, nickel-plated	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



MAB 5	MAB 5 S	MAB 6	MAB 7 S
930 010-200	930 071-200	930 011-200	930 343-200
female	female	female	female
panel-mounted socket with flange; solder joint	panel-mounted socket with flange; solder joint	panel-mounted socket with flange; solder joint	panel-mounted socket with flange; solder joint
5	5	6	7
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	DIN 41 524	DIN 45 322	DIN 45 329
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
steel, nickel-plated	steel, nickel-plated	steel, nickel-plated	steel, nickel-plated
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C

# MINIATURE MULTIPLE CONNECTORS

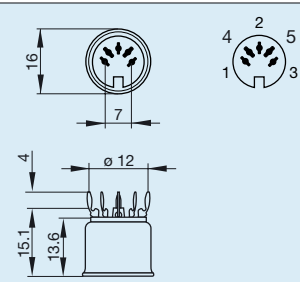
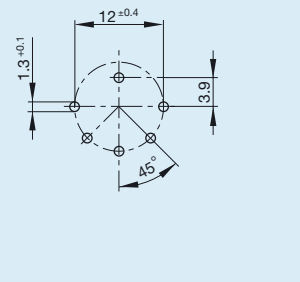
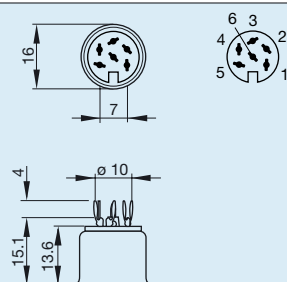
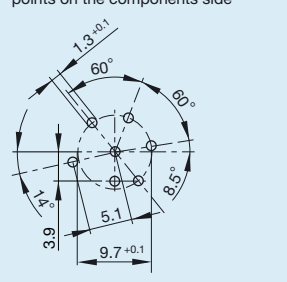
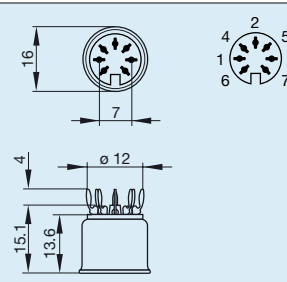
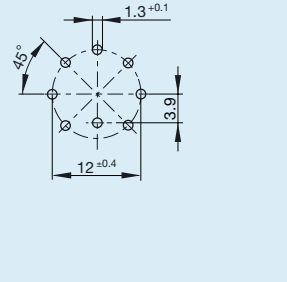
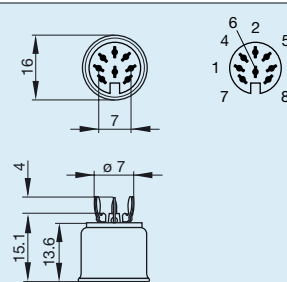
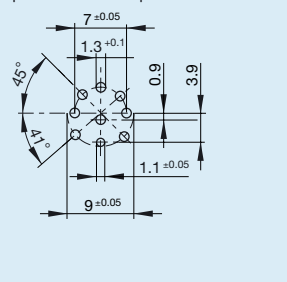
## Panel-mounted sockets



WITHOUT LOCKING SCREW

Product description			
Type	MAB 8 S	MAB 8 SN	
Order No.	930 345-200	931 613-200	
Type of contact	female	female	
Description	panel-mounted socket with flange; solder joint	panel-mounted socket with flange; solder joint	
Colour			
Poles	8	8	
Conductor cross-section	≤ 0.34 mm <sup>2</sup>	≤ 0.34 mm <sup>2</sup>	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524 (sockets 1-5)	DIN 45 326	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	steel, nickel-plated	steel, nickel-plated	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



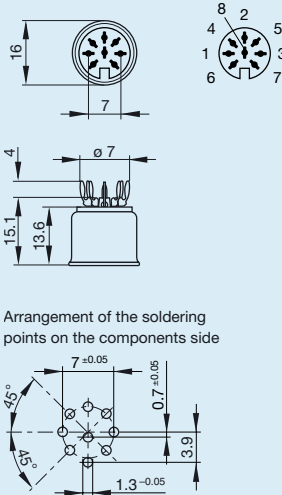
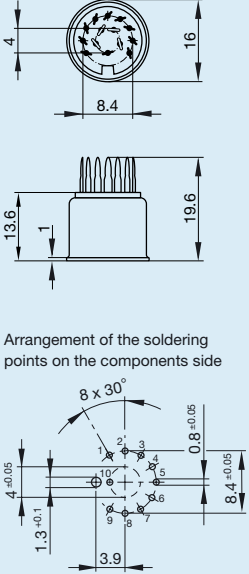
MAB 5 SV	MAB 6 V	MAB 7 SV	MAB 8 SV
930 777-200	930 812-200	931 657-200	931 735-200
female	female	female	female
panel-mounted socket for PCBs; plug-in direction parallel to the PCB	panel-mounted socket for PCBs; plug-in direction parallel to the PCB	panel-mounted socket for PCBs; plug-in direction parallel to the PCB	panel-mounted socket for PCBs; plug-in direction parallel to the PCB
5	6	7	8
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
 <p>Arrangement of the soldering points on the components side</p> 	 <p>Arrangement of the soldering points on the components side</p> 	 <p>Arrangement of the soldering points on the components side</p> 	 <p>Arrangement of the soldering points on the components side</p> 
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524	DIN 45 322	DIN 45 329	DIN 41 524 (sockets 1-5)
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
steel, nickel-plated	steel, nickel-plated	steel, nickel-plated	steel, nickel-plated
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C

# MINIATURE MULTIPLE CONNECTORS

## Panel-mounted sockets



WITHOUT LOCKING SCREW

Product description			
Type	MAB 8 SN V	MIB 100 V	
Order No.	932 664-200	932 255-500	
Type of contact	female	female	
Description	panel-mounted socket for PCBs; plug-in direction parallel to the PCB	panel-mounted socket with solder skewers; direction of insertion perpendicular to the circuit board; solder joint	
Colour			
Poles	8	10	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
<div><div><p>Arrangement of the soldering points on the components side</p></div><div><p>Arrangement of the soldering points on the components side</p></div></div>			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 326		
Rated current	$\leq 4 \text{ A}$	$\leq 3 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	steel, nickel-plated	steel, nickel-plated	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	





	<b>MIB 140</b>	<b>MIB 100 VA schwarz/black</b>	<b>MIB 140 VA schwarz/black</b>	<b>MAB 5 SH schwarz/black</b>
	931 842-500	932 315-500	932 428-500	931 744-200
	female	female	female	female
	panel-mounted socket with solder lugs; flange fixing; solder joint	panel-mounted socket with solder skewers; direction of insertion perpendicular to the circuit board; solder joint	panel-mounted socket with solder skewers; direction of insertion perpendicular to the circuit board; solder joint	panel-mounted socket for PCBs; not shielded; plug-in direction parallel to the PCB, recommended board thickness 1.5 mm; additionally fixing with screws (DIN 40081)
	black	black	black	black
	14	10	14	5
	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
		<p>Arrangement of the soldering points on the components side</p>	<p>Arrangement of the soldering points on the components side</p>	<p>Insert 0.5 mm lower</p> <p>Arrangement of the soldering points on the components side</p> <p>○ : Two holes 2.4 in diameter for additional fixing with pan-head tapping screws, size ST 2.2 ... DIN ISO 1481. ● : Recommended hole diameter for locking spike <math>1.3 \pm 0.05</math>.</p>
	EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	$\leq 3 \text{ A}$	$\leq 3 \text{ A}$	$\leq 3 \text{ A}$	$\leq 4 \text{ A}$
	UC 34 V	UC 34 V	UC 34 V	UC 34 V
	solder	solder	solder	solder
	brass	brass	brass	brass
	tin plated	tin plated	tin plated	tin plated
	PA 66/UL standard 94V-2	PA G/UL standard 94 HB	PA G/UL standard 94 HB	PS-I/UL standard 94 HB
	steel, nickel-plated	PA G/UL standard 94 HB	PA G/UL standard 94 HB	PS-I/UL standard 94 HB
	IP 30	IP 30	IP 30	IP 30
	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C

# MINIATURE MULTIPLE CONNECTORS

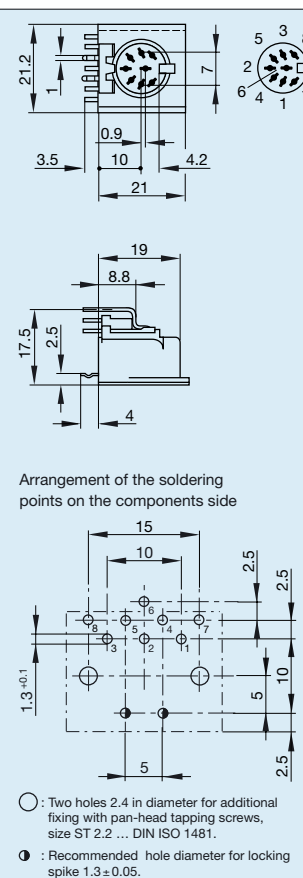
## Panel-mounted sockets



WITHOUT LOCKING SCREW

Product description			
Type	<b>MAB 6 H schwarz/black</b>	<b>MAB 7 SH-L SN schwarz/black</b>	
Order No.	930 778-200	930 518-200	
Type of contact	female	female	
Description	panel-mounted socket for PCBs; not shielded; plug-in direction parallel to the PCB, recommended board thickness 1.5 mm; additionally fixing with screws (DIN 40081)	panel-mounted socket for PCBs; not shielded; plug-in direction parallel to the PCB, recommended board thickness 1.5 mm; additionally fixing with screws (DIN 40081)	
Colour	black	black	
Poles	6	7	
Conductor cross-section	≤ 0.34 mm <sup>2</sup>	≤ 0.34 mm <sup>2</sup>	
Drawing			
	<p>Arrangement of the soldering points on the components side</p> <p>○ : Two holes 2.4 in diameter for additional fixing with pan-head tapping screws, size ST 2.2 ... DIN ISO 1481.          ● : Recommended hole diameter for locking spike 1.3 ± 0.05.</p>	<p>Arrangement of the soldering points on the components side</p> <p>○ : Two holes 2.4 in diameter for additional fixing with pan-head tapping screws, size ST 2.2 ... DIN ISO 1481.          ● : Recommended hole diameter for locking spike 1.3 ± 0.05.</p>	
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 322	DIN 45 329; dimensions DIN 45 328	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PS-I/UL standard 94 HB	PS-I/UL standard 94 HB	
Housing material	PS-I/UL standard 94 HB	PS-I/UL standard 94 HB	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



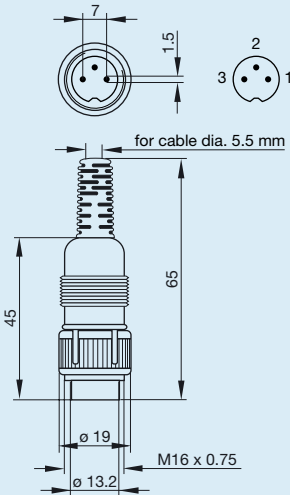
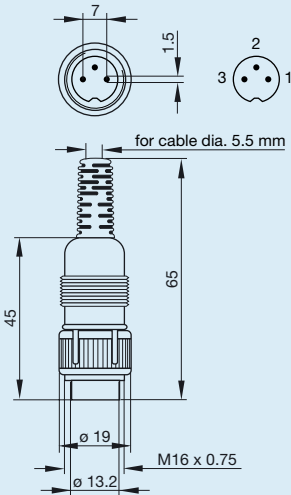
	<b>MAB 8 5H schwarz/black</b>			
	931 399-200			
	female			
	panel-mounted socket for PCBs; not shielded; plug-in direction parallel to the PCB, recommended board thickness 1.5 mm; additionally fixing with screws (DIN 40081)			
	black			
	8			
	$\leq 0.34 \text{ mm}^2$			
				
	EN 60 130-09			
	DIN 41 524 (sockets 1-5)			
	$\leq 4 \text{ A}$			
	UC 34 V			
	solder			
	brass			
	tin plated			
	PS-I/UL standard 94 HB			
	PS-I/UL standard 94 HB			
	IP 30			
	-20 °C to +60 °C			

# MINIATURE MULTIPLE CONNECTORS

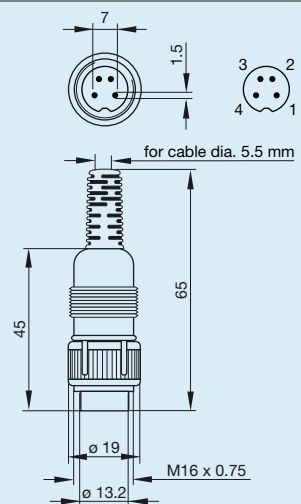
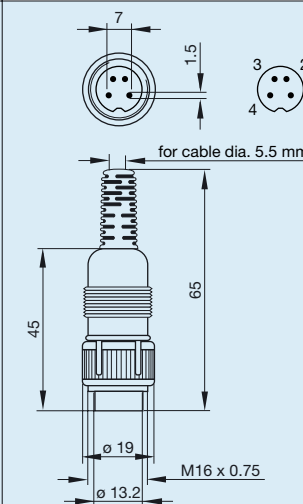
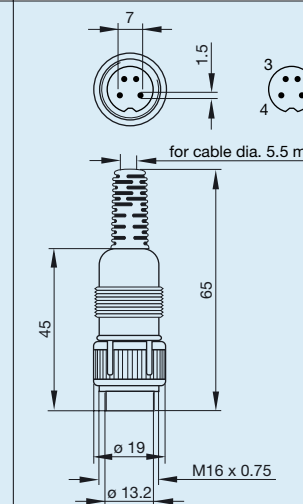
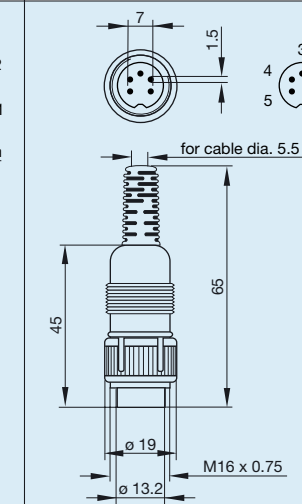
## Straight plugs



### WITH LOCKING SCREW

Product description			
Type	MAS 3100 grau/grey	MAS 3100 UM grau/grey	
Order No.	930 304-517	931 068-117	
Type of contact	male	male	
Description	plug with locking screw; solder joint	plug with locking screw; solder joint	
Housing colour	grey	grey	
Poles	3	3	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	



	<b>MAS 4100 grau/grey</b>	<b>MAS 4100 UM grau/grey</b>	<b>MAS 4100 UM schwarz/black</b>	<b>MAS 5100 grau/grey</b>
	930 963-517	931 173-117	931 173-100	930 964-517
	male	male	male	male
	plug with locking screw; solder joint	plug with locking screw; solder joint	plug with locking screw; solder joint	plug with locking screw; solder joint
	grey	grey	black	grey
	4	4	4	5
	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
				
	EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
	UC 34 V	UC 34 V	UC 34 V	UC 34 V
	5.5 mm	5.5 mm	5.5 mm	5.5 mm
	solder	solder	solder	solder
	brass	brass	brass	brass
	tin plated	tin plated	tin plated	tin plated
	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
	PE	PE	PE	PE
	IP 30	IP 30	IP 30	IP 30
	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag



# MINIATURE MULTIPLE CONNECTORS

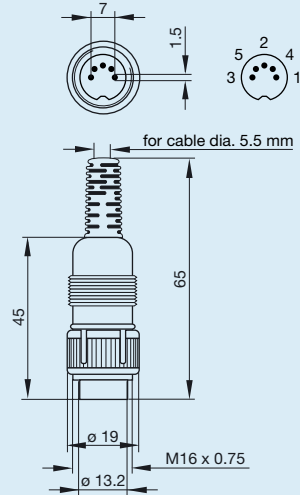
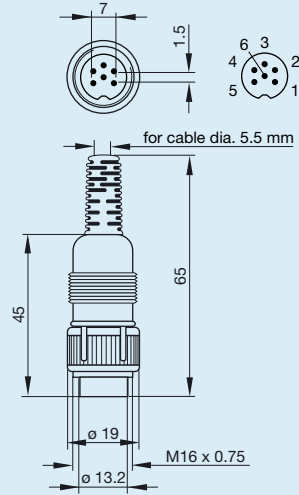
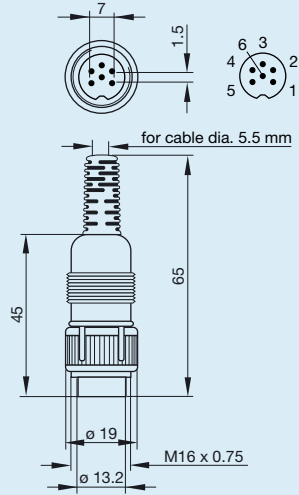
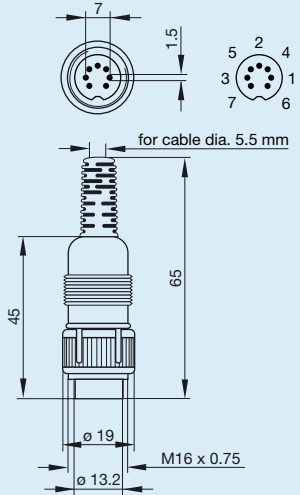
## Straight plugs



### WITH LOCKING SCREW

Product description			
Type	MAS 5100 UM grau/grey	MAS 5100 S grau/grey	
Order No.	931 189-117	930 965-517	
Type of contact	male	male	
Description	plug with locking screw; solder joint	plug with locking screw; solder joint	
Housing colour	grey	grey	
Poles	5	5	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN		DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	



MAS 5100 S UM grau/grey	MAS 6100 grau/grey	MAS 6100 UM grau/grey	MAS 7100 S grau/grey
931 174-117	930 966-517	931 151-117	930 688-517
male	male	male	male
plug with locking screw; solder joint	plug with locking screw; solder joint	plug with locking screw; solder joint	plug with locking screw; solder joint
grey	grey	grey	grey
5	6	6	7
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130 -09	EN 60 130-09	EN 60 130-09
DIN 41 524	DIN 45 322	DIN 45 322	DIN 45 329
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

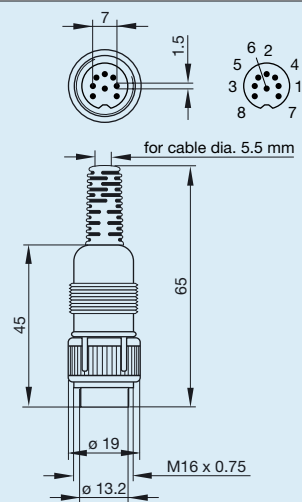
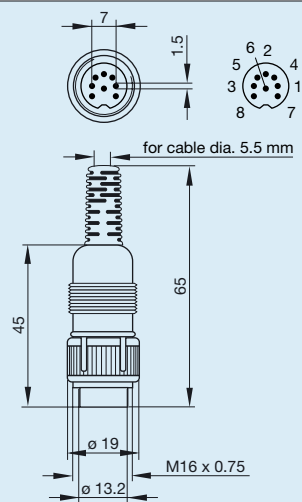
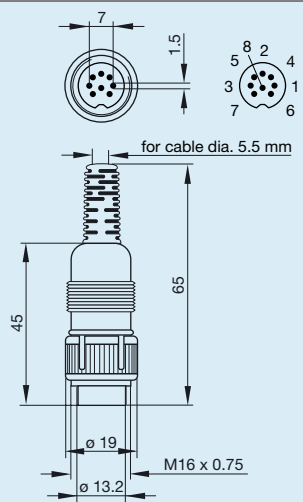
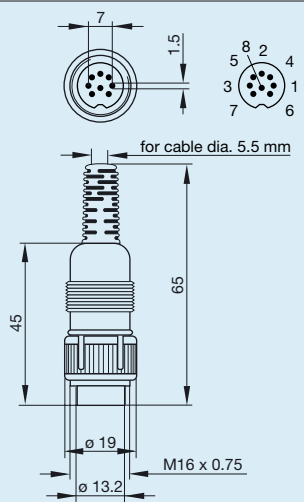
## Straight plugs



### WITH LOCKING SCREW

Product description			
Type	MAS 7100 S UM grau/grey	MAS 8100 S grau/grey	
Order No.	930 689-117	930 539-517	
Type of contact	male	male	
Description	plug with locking screw; solder joint	plug with locking screw; solder joint	
Housing colour	grey	grey	
Poles	7	8	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 329	DIN 41 524 (pin 1-5)	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	



MAS 8100 S UM grau/grey	MAS 8100 S UM schwarz/black	MAS 8100 SN UM grau/grey	MAS 8100 SN UM schwarz/black
931 240-117	931 240-100	931 750-117	931 750-100
male	male	male	male
plug with locking screw; solder joint	plug with locking screw; solder joint	plug with locking screw; solder joint	plug with locking screw; solder joint
grey	black	grey	black
8	8	8	8
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524 (pin 1-5)	DIN 41 524 (pin 1-5)	DIN 45 326	DIN 45 326
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted

# MINIATURE MULTIPLE CONNECTORS

## Straight plugs



### WITH LOCKING SCREW

Product description			
Type	MIS 1400 AU UM schwarz/black		
Order No.	932 173-100		
Type of contact	male		
Description	plug with locking screw; solder joint		
Housing colour	black		
Poles	14		
Conductor cross-section	≤ 0.34 mm <sup>2</sup>		
Drawing			
Technical data			
Standard	EN 60 130-09		
Pole arrangement DIN			
Rated current	≤ 3 A		
Rated voltage	UC 34 V		
Cable diameter	5.5 mm		
Type of termination	solder		
Material			
Contact material	brass		
Contact surface material	gold plated		
Contact bearer material	PA 66/UL standard 94V-2		
Housing material	PE		
Environmental conditions			
Protection class (IEC 60529)	IP 30		
Temperature range	-20 °C to +60 °C		
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted		

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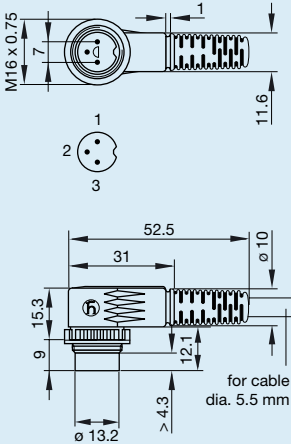
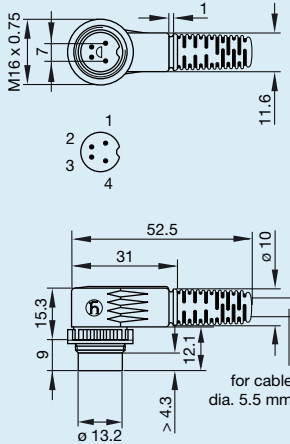


# MINIATURE MULTIPLE CONNECTORS

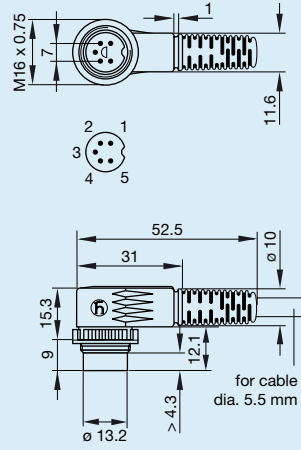
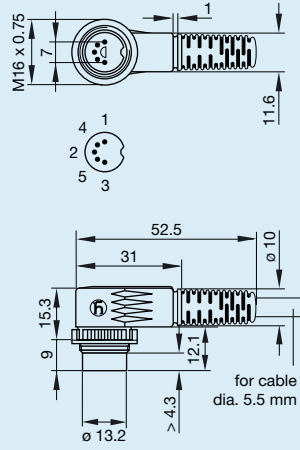
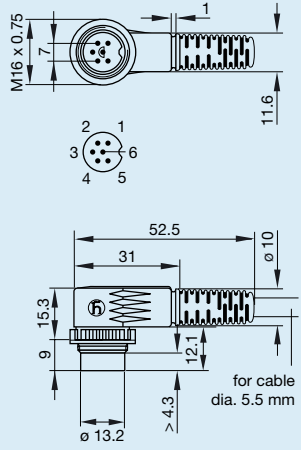
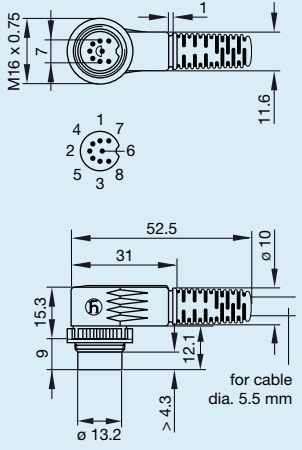
## Angled plugs



### WITH LOCKING SCREW

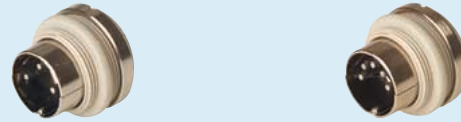
Product description				
Type	MAWI 3100 grau/grey	MAWI 4100 grau/grey		
Order No.	932 906-117	932 907-117		
Type of contact	male	male		
Description	angled plug with locking screw; solder joint	angled plug with locking screw; solder joint		
Housing colour	grey	grey		
Poles	3	4		
Conductor cross-section	<= 0.34 mm²	<= 0.34 mm²		
Drawing				
				
Technical data				
Standard	EN 60 130-09	EN 60 130-09		
Pole arrangement DIN	DIN 41 524			
Rated current	<= 4 A	<= 4 A		
Rated voltage	UC 34 V	UC 34 V		
Cable diameter	6.5 mm	6.5 mm		
Type of termination	solder	solder		
Material				
Contact material	brass	brass		
Contact surface material	tin plated	tin plated		
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2		
Housing material	PE	PE		
Environmental conditions				
Protection class (IEC 60529)	IP 30	IP 30		
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C		
Scope of delivery and accessories				
Packaging	retail package, polyethylene bag	retail package, polyethylene bag		



MAWI 5100 grau/grey	MAWI 5100 S grau/grey	MAWI 6100 grau/grey	MAWI 8100 S UM grau/grey
932 908-117	932 909-117	932 910-117	932 941-117
male	male	male	male
angled plug with locking screw; solder joint	angled plug with locking screw; solder joint	angled plug with locking screw; solder joint	angled plug with locking screw; solder joint
grey	grey	grey	grey
5	5	6	8
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	DIN 41 524	DIN 45 322	DIN 41 524 (pin 1-5)
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
6.5 mm	6.5 mm	6.5 mm	6.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
retail package, polyethylene bag	retail package, polyethylene bag	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted

# MINIATURE MULTIPLE CONNECTORS

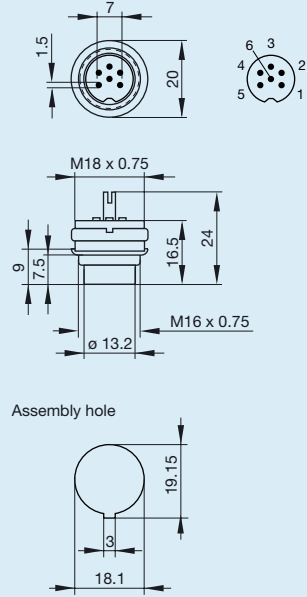
## Panel-mounted plugs



### WITH LOCKING SCREW

Product description			
Type	MASEI 3100 grau/grey	MASEI 5100 S grau/grey	
Order No.	930 296-517	930 957-517	
Type of contact	male	male	
Colour	grey	grey	
Description	panel-mounted plug with locking screw; solder joint	panel-mounted plug with locking screw; solder joint	
Poles	3	5	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



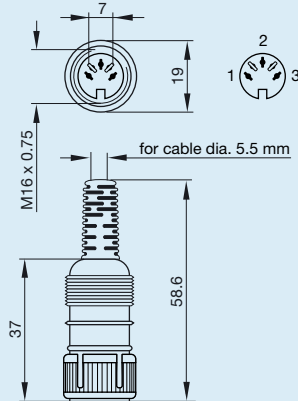
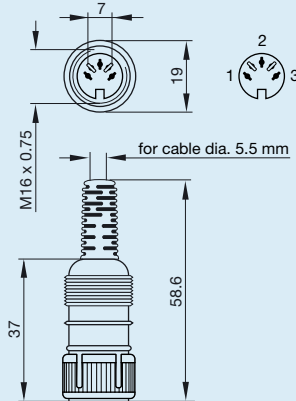
	<b>MASEI 6100 grau/grey</b>			
	930 958-517			
	male			
	grey			
	panel-mounted plug with locking screw; solder joint			
	6			
	$\leq 0.34 \text{ mm}^2$			
	 <p>Technical drawing of the MASEI 6100 plug showing front, side, and assembly hole views with dimensions.</p> <p>Front view: 7 mm width, 1.5 mm height, 20 mm diameter, 6 pins (1-6).</p> <p>Side view: M18 x 0.75 thread, 9 mm height, 7.5 mm height, 16.5 mm height, 24 mm height, M16 x 0.75 thread, <math>\phi 13.2</math> diameter.</p> <p>Assembly hole: 19.15 mm height, 3 mm width, 18.1 mm diameter.</p>			
	EN 60 130-09			
	DIN 45 322			
	$\leq 4 \text{ A}$			
	UC 34 V			
	solder			
	brass			
	tin plated			
	PA 66/UL standard 94V-2			
	PE			
	IP 30			
	-20 °C to +60 °C			

# MINIATURE MULTIPLE CONNECTORS

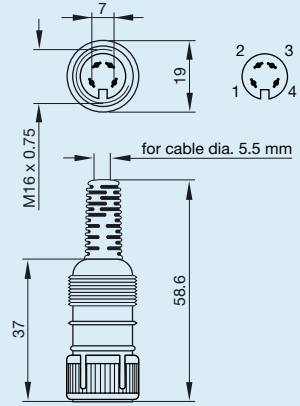
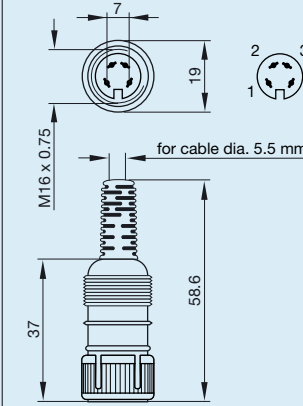
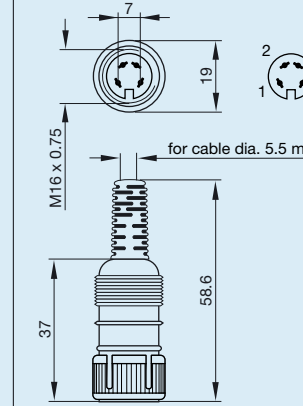
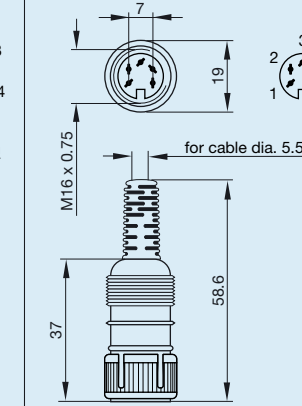
## Straight sockets



### WITH LOCKING SCREW

Product description			
Type	MAK 3100 S grau/grey	MAK 3100 S UM grau/grey	
Order No.	930 764-517	931 110-117	
Type of contact	female	female	
Description	socket with locking screw; solder joint	socket with locking screw; solder joint	
Housing colour	grey	grey	
Poles	3	3	
Conductor cross-section	≤ 0.34 mm²	≤ 0.34 mm²	
Drawing			
			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	



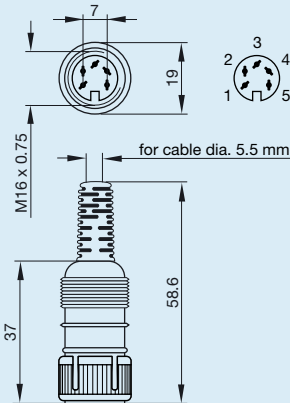
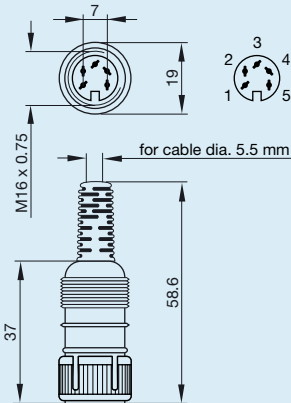
	<b>MAK 4100 grau/grey</b>	<b>MAK 4100 UM grau/grey</b>	<b>MAK 4100 UM schwarz/black</b>	<b>MAK 5100 grau/grey</b>
	930 959-517	931 175-117	931 175-100	930 960-517
	female	female	female	female
	socket with locking screw; solder joint	socket with locking screw; solder joint	socket with locking screw; solder joint	socket with locking screw; solder joint
	grey	grey	black	grey
	4	4	4	5
	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
				
	EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
	UC 34 V	UC 34 V	UC 34 V	UC 34 V
	5.5 mm	5.5 mm	5.5 mm	5.5 mm
	solder	solder	solder	solder
	brass	brass	brass	brass
	tin plated	tin plated	tin plated	tin plated
	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
	PE	PE	PE	PE
	IP 30	IP 30	IP 30	IP 30
	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

## Straight sockets

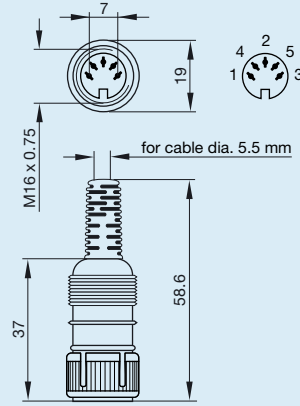
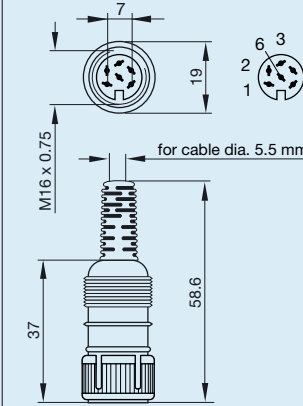
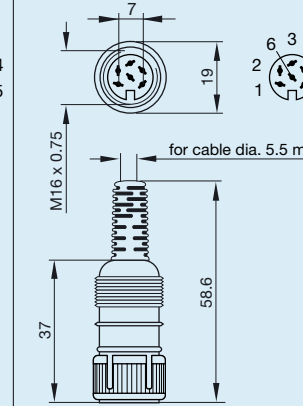
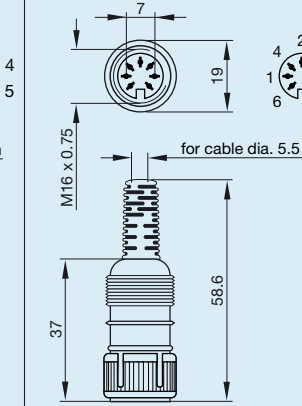


### WITH LOCKING SCREW

Product description		
Type	MAK 5100 UM grau/grey	MAK 5100 UM schwarz/black
Order No.	931 176-117	931 176-100
Type of contact	female	female
Description	socket with locking screw; solder joint	socket with locking screw; solder joint
Housing colour	grey	black
Poles	5	5
Conductor cross-section	<= 0.34 mm²	<= 0.34 mm²
Drawing		
		
Technical data		
Standard	EN 60 130-09	EN 60 130-09
Pole arrangement DIN		
Rated current	<= 4 A	<= 4 A
Rated voltage	UC 34 V	UC 34 V
Cable diameter	5.5 mm	5.5 mm
Type of termination	solder	solder
Material		
Contact material (socket)	brass	brass
Contact surface material	tin plated	tin plated
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
Housing material	PE	PE
Environmental conditions		
Protection class (IEC 60529)	IP 30	IP 30
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C
Scope of delivery and accessories		
Packaging	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted





MAK 5100 S grau/grey	MAK 6100 grau/grey	MAK 6100 UM grau/grey	MAK 7100 S grau/grey
930 961-517	930 962-517	931 178-117	930 682-517
female	female	female	female
socket with locking screw; solder joint	socket with locking screw; solder joint	socket with locking screw; solder joint	socket with locking screw; solder joint
grey	grey	grey	grey
5	6	6	7
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
			
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524	DIN 45 322	DIN 45 322	DIN 45 329
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
5.5 mm	5.5 mm	5.5 mm	5.5 mm
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
retail package, polyethylene bag	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

# MINIATURE MULTIPLE CONNECTORS

## Straight sockets



### WITH LOCKING SCREW

Product description			
Type	MAK 7100 S UM grau/grey	MAK 8100 S grau/grey	
Order No.	930 690-117	930 538-517	
Type of contact	female	female	
Description	socket with locking screw; solder joint	socket with locking screw; solder joint	
Housing colour	grey	grey	
Poles	7	8	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 329	DIN 41 524 (sockets 1-5)	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	

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# MINIATURE MULTIPLE CONNECTORS

## Straight sockets



### WITH LOCKING SCREW

Product description			
Type	MIK 1400 AU UM grau/grey	MIK 1400 AU UM schwarz/black	
Order No.	932 174-117	932 174-100	
Type of contact	female	female	
Description	socket with insulated handle; solder joint	socket with insulated handle; solder joint	
Housing colour	grey	grey	
Poles	14	14	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN			
Rated current	$\leq 3 \text{ A}$	$\leq 3 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Cable diameter	5.5 mm	5.5 mm	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
Scope of delivery and accessories			
Packaging	industry package, box; individual parts not assembled, sorted	industry package, box; individual parts not assembled, sorted	

[illegible]

## MINIATURE MULTIPLE CONNECTORS

## Panel-mounted sockets



## WITH LOCKING SCREW

<b>Product description</b>			
Type	<b>MAB 3100 S grau/grey</b>	<b>MAB 3100 S schwarz/black</b>	
Order No.	930 303-517	930 303-500	
Type of contact	female	female	
Colour	grey	black	
Description	panel-mounted socket with locking screw; solder joint; not shielded	panel-mounted socket with locking screw; solder joint; not shielded	
Poles	3	3	
Conductor cross-section	≤ 0.34 mm²	≤ 0.34 mm²	
<b>Drawing</b>			
<b>Technical data</b>			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 41 524	DIN 41 524	
Rated current	≤ 4 A	≤ 4 A	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
<b>Material</b>			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
<b>Environmental conditions</b>			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	

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# MINIATURE MULTIPLE CONNECTORS

## Panel-mounted sockets



### WITH LOCKING SCREW

Product description			
Type	MAB 6100 grau/grey	MAB 7100 S grau/grey	
Order No.	930 954-517	931 351-517	
Type of contact	female	female	
Colour	grey	grey	
Description	panel-mounted socket with locking screw; solder joint; not shielded	panel-mounted socket with locking screw; solder joint; not shielded	
Poles	6	7	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 322	DIN 45 329	
Rated current	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



MAB 8100 S grau/grey	MAB 8100 SN grau/grey	MAB 8100 SN schwarz/black	MAB 4100 V grau/grey
930 537-517	931 749-517	931 749-500	932 254-517
female	female	female	female
grey	grey	black	grey
panel-mounted socket with locking screw; solder joint; not shielded	panel-mounted socket with locking screw; solder joint; not shielded	panel-mounted socket with locking screw; solder joint; not shielded	panel-mounted socket with locking screw; for PCB mounting; solder joint; not shielded
8	8	8	4
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524 (sockets 1-5)	DIN 45 326	DIN 45 326	
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C

# MINIATURE MULTIPLE CONNECTORS

## Panel-mounted sockets



### WITH LOCKING SCREW

Product description			
Type	MAB 6100 V grau/grey	MIB 1400 schwarz/black	
Order No.	932 202-517	932 221-500	
Type of contact	female	female	
Colour	grey	black	
Description	panel-mounted socket with locking screw; for PCB mounting; solder joint; not shielded	panel-mounted socket with locking screw; solder joint; not shielded	
Poles	6	14	
Conductor cross-section	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	
Drawing			
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 322		
Rated current	$\leq 4 \text{ A}$	$\leq 3 \text{ A}$	
Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material			
Contact material (socket)	brass	brass	
Contact surface material	tin plated	tin plated	
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	
Housing material	PE	PE	
Environmental conditions			
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



MAB 4500 V grau/grey	MAB 7100 SV grau/grey	MAB 8500 SV schwarz/black	MAB 8500 SN V grau/grey
933 053-517	932 423-517	933 141-517	933 058-517
female	female	female	female
grey	grey	black	grey
panel-mounted socket with locking screw; for installation in rear panels; max. panel thickness 4 mm; solder joint; not shielded	panel-mounted socket with locking screw; for PCB mounting; solder joint; not shielded	panel-mounted socket with locking screw; for installation in rear panels; max. panel thickness 4 mm; solder joint; not shielded	panel-mounted socket with locking screw; for installation in rear panels; max. panel thickness 4 mm; solder joint; not shielded
4	7	8	8
$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$	$\leq 0.34 \text{ mm}^2$
<p>Assembly hole</p> <p>Arrangement of the soldering points on the components side</p>	<p>Assembly hole</p> <p>Arrangement of the soldering points on the components side</p>	<p>Assembly hole</p> <p>Arrangement of the soldering points on the components side</p>	<p>Assembly hole</p> <p>Arrangement of the soldering points on the components side</p>
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$	$\leq 4 \text{ A}$
UC 34 V	UC 34 V	UC 34 V	UC 34 V
solder	solder	solder	solder
brass	brass	brass	brass
tin plated	tin plated	tin plated	tin plated
PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
PE	PE	PE	PE
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C

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