



Automation and Network Solutions



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 herring 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?





You can select from a wide range of well-established products and practice-orient-ed 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

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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

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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.





Straight plugs





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
	plus with insulated handle, solder joint	plus with insulated handle, solder joint
Housing colour	grey	grey
Poles	3	3
Conductor cross-section	<= 0.34 mm²	<= 0.34 mm ²
Drawing		
	for cable dia. 5.5 mm	9 13.2
Technical data	FN (0.420.00	FN (0.420.00
Standard Pole arrangement DIN	EN 60 130-09 DIN 41524	EN 60 130-09 DIN 41 524
Rated current	∪IN 41524 <= 4 A	□ DIN 41 524 <= 4 A
Rated current Rated voltage	UC 34 V	UC 34 V
Cable diameter	5.5 mm	5.5 mm
Type of termination	solder	solder
Material	Solder	Solder
Contact material	brass	brass
Contact material	tin plated	tin plated
Contact bearer material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
Housing material	PE PE	PE PE
Environmental conditions	1.	16
	ID 20	ID 20
Protection class (IEC 60529)	IP 30	IP 30 -20 °C to +60 °C
Temperature range	-20 °C to +60 °C	-20 °C 10 +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
p	F1-g	p.mg	F-05
black	grey	grey	grey
3	4	4	5
<= 0.34 mm ²	<= 0.34 mm ²	<= 0.34 mm²	<= 0.34 mm²
7 3 • 1 3 • 1 1 1 1 1 1 1 1 1 1	for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524			
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight plugs





Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	for cable dia. 5.5 mm	5 2 4 3 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Technical data Standard	EN (0.420.00	EN (0.420.00
	EN 60 130-09 DIN 41 524	EN 60 130-09 DIN 41 524
Pole arrangement DIN	OIN 41 524 <= 4 A	OIN 41 524 <= 4 A
Rated current Rated voltage	€ 4 A UC 34 V	<= 4 A UC 34 V
Cable diameter	5.5 mm	5.5 mm
Type of termination	solder	solder
Material	Joinel	Soluci
	hrace	brace
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	ID 00	I I Dana
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 50 S schwarz/black	MAS 50 S UM grau/grey	MAS 50 S UM schwarz/black	MAS 60 grau/grey
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
uo.l	ω	ω	اری
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm
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
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight plugs





	T	
Product description	MAC CO ashara = (blask	MAC CO UM
Туре	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 mm ²
Drawing		
Technical data	for cable dia. 5.5 mm	for cable dia. 5.5 mm
Standard	EN 60 130-09	EN 60 130-09
Pole arrangement DIN	DIN 45 322	DIN 45 322
Rated current	<= 4 A	□ IN 45 522 <= 4 A
Rated current Rated voltage	UC 34 V	UC 34 V
Cable diameter	5.5 mm	5.5 mm
Type of termination	solder	solder
Material	Solder	Solder
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	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	25 0 100 0	20 0 10 100 0
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm
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
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight plugs





Product description		
Туре	MAS 70 S UM schwarz/black	MAS 80 S 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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	for cable dia. 5.5 mm	for cable dia. 5.5 mm
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	ζ= 4 A	<= 4 A
Rated voltage Cable diameter	UC 34 V 5.5 mm	UC 34 V 5.5 mm
Type of termination Material	solder	solder
	brace	brace
Contact material	brass tip plated	brass tip plated
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
	-20 °C to +60 °C	-20 °C to +60 °C
Temperature range Scope of delivery and accessories	-20 C t0 +00 C	











MAS 80 S schwarz/black	MAS 80 S UM grau/grey	MAS 80 S UM schwarz/black	MAS 80 SN grau/grey
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
p. 20	p.m.g	Fing	F-05
black	grey	black	grey
8	8	8	8
<= 0.34 mm ²	<= 0.34 mm²	<= 0.34 mm ²	<= 0.34 mm²
for cable dia. 5.5 mm	for cable dia. 5.5 mm	50 10 10 10 10 10 10 10 10 10 1	58 2 4 3 11 7 6 for cable dia. 5.5 mm
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
<= 4 A	<= 4 A	<= 4 A	<= 4 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
ID 00	ID as	ID a a	12.00
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

Straight plugs





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 mm²	<= 0.34 mm²
Drawing		
Technical data	for cable dia. 5.5 mn	for cable dia. 5.5 mm
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	33.23	
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			
931 826-117	MIS 100 UM schwarz/black 931 826-100	MIS 140 schwarz/black 932 222-500	
931 826-117 male	male	932 222-500 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	plug with insulated handle; solder joint	plug with insulated handle; solder joint	
	black	black	
grey	10		
10		14	
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	
EN 60 130-09	EN 60 130-09	EN 60 130-09	
LN 00 130°07	LN 00 130-03	FIX 00 130-03	
<= 3 A	<= 3 A	<= 3 A	
UC 34 V	UC 34 V	UC 34 V	
5.5 mm	5.5 mm	5.5 mm	
solder	solder	solder	
301461	Joidel	Joidel	
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	

Angled plugs





Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	1.5 31 52.5 2 3 for cable dia. 6.5 mm	1.5 31 52.5 2 3 for cable dia. 6.5 mm
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	6.5 mm	6.5 mm
Type of termination	solder	solder
Material	hanne	h
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	ID 20	ID 20
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
1.5 2 31 52.5 for cable dia. 6.5 mm	1.5 31 52.5 for cable dia. 6.5 mm	1.5 31 52.5 3 4 5 for cable dia. 6.5 mm	1.5 1.5 2 1.5 31 52.5 for cable dia. 6.5 mm
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524			DIN 41 524
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Angled plugs





Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	1.5 31 52.5 4 1 2 5 3 6 7 6 7 9 9 13.2	1.5 31 52.5 4 1 2 5 3 5 3 5 5 6 7 9 9 13.2
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	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
· ·	<u> </u>	,	•
grey	grey	grey	grey
6	7	8	8
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
1.5 31 52.5 62 33 4 5 for cable dia. 6.5 mm	1.5 4 1 6 5 3 7 for cable dia. 6.5 mm	1.5 7 2 31 52.5 64 1 7 2 3 8 for cable dia. 6.5 mm	1.5 52.5 64 1 7 2 5 3 8 for cable dia. 6.5 m
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)
<= 4 A	<= 4 A	<= 4 A	<= 4 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
Solder	Solder	Solder	Solder
h-m-a-a	hanna	hanna	husaa
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
ID 20	ID 20	ID 20	ID 20
IP 30	IP 30	IP 30	IP 30
-20 ℃ to +60 ℃	-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

Angled plugs





Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
Technical data	1.5 31 52.5 64 17 25 38 For cable dia. 6.5 mr	1.5 31 52.5 84 1 6 5 3 7
Standard	EN 60 130-09	EN 60 130-09
Pole arrangement DIN	DIN 41 524 (pins 1-5)	DIN 45 326
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	Soluei	Soluci
	h	huse
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







### ### ### ### ### ### ### ### ### ##			
male	MAWI 80 SN B UM schwarz/black	MIWI 140 grau/grey	
mgled plug with insulated handle; solder joint			
Diotal D			
Black See 14			
EN 60 130-09 EN 60 130-09 EN 60 130-09 DIN 45 376 c- 3 A UC 34 V UC 3			
EN 60 130-09 DIN 45 326			
EN 60 130-09 EN 60 130-09 DIN 45 336 (-4 A) UC 34 V			
EN 60 130-09 DIN 45 326 C = 4 A UC 34 V 0.5 mm Solder Solder Solder Drass brass bra	<= 0.34 mm²	<= 0.34 mm²	
EN 60 130-09 DIN 45 326 C = 4 A UC 34 V 0.5 mm Solder Solder Solder Drass brass bra			
DIN 45 326	31 52.5 84 1 6 5 3 7	31 52.5 for cable dia. 6.5 mm	
DIN 45 326			
(= 4 A (= 3 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		EN 60 130-09	
UC 34 V UC 34 V			
6.5 mm 5.5 mm 5.5 mm 5 solder 6 solder			
Solder S			
brass brass tin plated tin plated PA 66/UL standard 94V-2 PA 66/UL standard 94V-2 PE PE			
tin plated tin plated PA 66/UL standard 94V-2 PA 66/UL standard 94V-2 PE PE	solder	solder	
tin plated tin plated PA 66/UL standard 94V-2 PA 66/UL standard 94V-2 PE PE			
PA 66/UL standard 94V-2 PE PE PE PE			
PE PE			
JD 20	PE	PE	
10.20			
	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 retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	

Panel-mounted plugs





Product description			
Туре	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 mm²	<= 0.34 mm²	
Drawing			
	28.5 22.2 0 15.2 9.用压 0 13.6	28.5 22.2 8 5 22.2 8 5 22.2 8 15.2 9 13.6	
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 indental 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	uiccast	uiccast	
Protection class (IEC 60529)	IP 30	IP 30	
` '			
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	



Straight sockets





Product description		
Туре	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 Drawing	<= 0.34 mm²	<= 0.34 mm²
	for cable dia. 5.5 m	for cable dia. 5.5 mm
Technical data		
Standard DIN	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 (Control of Control of C	L	I have
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
			DIN 41 524
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight sockets





Product description			
Туре	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 Drawing	<= 0.34 mm²	<= 0.34 mm²	
	for cable dia. 5.5 mm	for cable dia. 5.5 mm	
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	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
<= 0.34 mm ²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm
5N 40 400 00	FW 40 400 00		5N 40 400 00
EN 60 130-09 DIN 45 322	EN 60 130-09 DIN 45 322	EN 60 130-09 DIN 45 329	EN 60 130-09 DIN 41 524 (sockets 1-5)
UIN 45 322 <= 4 A	OIN 45 322 <= 4 A	UIN 45 329 <= 4 A	UIN 41 524 (SOCKELS 1-5) <= 4 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
Joidel	Joidel	Solder	Joidel
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	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
20 0 10 100 0	20 0 10 100 0	20 0 10 100 0	20 0 10 100 0
retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	retail package, polyethylene bag

Straight sockets





Product description		
Туре	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 Drawing	<= 0.34 mm²	<= 0.34 mm²
	for cable dia. 5.5 m	m for cable dia. 5.5 mm
Technical data	511 (a 100 a)	50.40.400.00
Standard Pole averagement DIN	EN 60 130-09	EN 60 130-09
Pole arrangement DIN	DIN 45 326	<= 4 A
Rated current	VC 34 V	<= 4 A UC 34 V
Rated voltage Cable diameter	5.5 mm	5.5 mm
	solder	solder
Type of termination Material	Soluei	Soluei
	brace	brace
Contact material (socket) Contact surface material	brass	brass tip plated
	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	12.00	ID 64
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



Panel-mounted sockets





Product description	T	
Type	MAB 3 S	MAB 4
Order No.	930 018-200	930 009-200
Type of contact	930 018-200 female	930 009-200 female
Description	panel-mounted socket with flange; solder	panel-mounted socket with flange; solder
	joint	joint joint
Colour		
Poles	3	4
Conductor cross-section	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	28.5 22.2 1 2 0 14.9 0 14.9	28.5 22.2 2 3 0 14.9 0 14.9
Technical data		
Standard PIN	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	joint	joint	joint
<u>'</u>		,	,
5	5	6	7
 <= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
· 0.54 IIIII	V 0.54 IIIII	V 0.54 mm	· 0.54 mm
28.5 22.2 3 4 1 7 5	28.5 22.2 4 2 5 1 3	28.5 22.2 6 3 4 1 5 5	28.5 22.2 1 4 2 5 7 7
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
LIV 00 130-09	DIN 41 524	DIN 45 322	DIN 45 329
<= 4 A	<= 4 A	<= 4 A	<= 4 A
VE 4 A UC 34 V	UC 34 V	UC 34 V	UC 34 V
solder	solder	solder	solder
Soluei	Soluei	Solder	Soluei
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
Steet, mcket-plateu	Steet, mcket-plated	Steet, mcket-plated	steet, mcker-plated
ID 20	ID 20	ID 20	ID 20
IP 30	IP 30	IP 30	IP 30
-20 °C to +60 °C			

Panel-mounted sockets





Product description			
Туре	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 Drawing	<= 0.34 mm ²	<= 0.34 mm²	
	28.5 22.2 6. 22.2 7 4 6 2 5 7 7 8 8	28.5 22.2 4 8 2 5 1 3 3 6 14.9 9 8 7	
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	Steet, menet plated	Steet, maker plated	
Protection class (IEC 60529)	IP 30	IP 30	
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C	
remperature range	-20 C to +00 C	-20 C to 400 C	











1115 - 61			****
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
, 0.54 mm	· 0.54 mm	, 0.54 mm	· 0.54 IIIII
Arrangement of the soldering points on the components side	Arrangement of the soldering points on the components side	Arrangement of the soldering points on the components side 1.3 *0.1 2 *0.1 2 *0.1 3 *0.1 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *2 *5 3 *6 7 *7 4 *7 7 *7 4 *7 7 *7 4 *7 7 *7 4 *7 7 *7 7 *7 ** ** ** ** ** **	Arrangement of the soldering points on the components side 7 = 0.05 1.3 *-0.15 9 = 0.05 1.1 = 0.05
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)
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Panel-mounted sockets





Due done de contestan	T		
Product description	MAB 8 SN V	MIB 100 V	
Type Order No.	932 664-200		
		932 255-500 female	
Type of contact	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	
	direction paratter to the FCB	circuit board; solder joint	
		encure Bourd, Solder John	
Colour			
Poles	8	10	
Conductor cross-section	<= 0.34 mm²	<= 0.34 mm²	
Drawing			
	9 1 2 5 1 1 3 7 7 The state of	5	
	7 - 7	8.4	
	36 S. C.	13.6	
	Arrangement of the soldering points on the components side	Arrangement of the soldering points on the components side	
	1.3-0.05	3.9 8 × 30° 8 × 30° 8 × 30° 8 × 30°	
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 326		
Rated current	<= 4 A	<= 3 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	
	•		











MIB 140	MIB 100 VA schwarz/black	MIB 140 VA schwarz/black	MAB 5 SH schwarz/black
931 842-500	932 315-500	932 428-500	931 744-200
female	female	932 428-300 female	female
panel-mounted socket with solder lugs;	panel-mounted socket with solder skewers;	panel-mounted socket with solder skewers;	panel-mounted socket for PCBs; not shiel-
flange fixing; solder joint	direction of insertion perpendicular to the	direction of insertion perpendicular to the	ded; plug-in direction parallel to the PCB,
	circuit board; solder joint	circuit board; solder joint	recommended board thickness 1.5 mm;
			additionaly fixing with screws (DIN 40081)
black	black	black	black
14	10	14	5
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
(= 0.54 mm	(= 0.54 IIIII	(= 0.54 mm	(= 0.54 IIIII
28.5 22.2 4 4 8.4 8.4 961 0 14.9	Arrangement of the soldering points on the components side	Arrangement of the soldering points on the components side	Arrangement of the soldering points on the components side 15 10 10 10 10 10 10 10 10 10 10 10 10 10
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
/= 2 A	/= 2 A	/= 2 A	DIN 41 524
<= 3 A UC 34 V	<= 3 A UC 34 V	<= 3 A UC 34 V	<= 4 A UC 34 V
oc 34 V solder	oc 34 V solder	oc 34 V solder	oc 34 V solder
Soluci	Soluci	Soluci	Soluci
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
steet, meker-plated	TA G, OE Standard 24 HD	TA G, OE Standard 24 HD	1 5 1/ OE standard 74 HD
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
20 010 100 0	20 010 00 0	20 010 100 0	25 510 100 6

Panel-mounted sockets





WITHOUT LOCKING SCREW

Tupo	MAB 6 H schwarz/black	MAR 7 CU I CN schwarz /black
Type	·	MAB 7 SH-L SN schwarz/black
Order No.	930 778-200	930 518-200
Type of contact	female	female
Description	panel-mounted socket for PCBs; not shiel- ded; plug-in direction parallel to the PCB, recommended board thickness 1.5 mm; additionaly fixing with screws (DIN 40081)	panel-mounted socket for PCBs; not shiel- ded; plug-in direction parallel to the PCB, recommended board thickness 1.5 mm; additionaly fixing with screws (DIN 40081)
Colour	black	black
Poles	6	7
Conductor cross-section	<= 0.34 mm²	<= 0.34 mm²
Drawing		
Technical data	Arrangement of the soldering points on the components side 15 10 21 21 21 21 21 21 21 21 21 21 21 21 21	Arrangement of the soldering points on the components side 15 10 19 19 19 19 10 10 11 10 11 10 11 10 11 10 11 11 11
	EN 60 120 00	EN 60 130 00
Standard PIN	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 Surface material 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	ID an	I I I I I I I I I I I I I I I I I I I
Protection class (IEC 60529)	IP 30	IP 30
Temperature range	-20 °C to +60 °C	-20 °C to +60 °C

-20 °C to +60 °C

-20 °C to +60 °C

Temperature range





MAB 8 SH schwarz/black		
931 399-200		
female		
panel-mounted socket for PCBs; not shiel-		
ded; plug-in direction parallel to the PCB,		
recommended board thickness 1.5 mm; additionaly fixing with screws (DIN 40081)		
additionary fixing with sciews (DIN 40001)		
black		
8		
<= 0.34 mm²		
5 3 8		
<u> </u>		
0.9		
3.5 10 4.2		
_ 21 _		
 		
19		
8.8		
-		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
-		
4		
→ - 		
Arrangement of the soldering		
points on the components side		
15		
10 _ 10		
10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
♦ F-\$-1-\$-1-\$-1-\$-1-\$-1-\$-1-\$-1-\$-1-\$-1-\$-		
+ + + + + + + + + + + + + + + + + + +		
01		
└·-·┼·-├-·- ├		
رم د		
5 0		
: Two holes 2.4 in diameter for additional		
: 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.		
EN <0.130.00		
EN 60 130-09 DIN 41 524 (sockets 1-5)		
DIN 41 524 (SOCKETS 1-5) <= 4 A		
UC 34 V		
solder		
Joider		
brass		
tin plated		
PS-I/UL standard 94 HB		
PS-I/UL standard 94 HB		
,, ,		
IP 30		
-20 °C to +60 °C		

Straight plugs

MINIATURE MULTIPLE CONNECTORS





Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing Drawing	1- 0.54 11111	(= 0.54 iiiii
	for cable dia. 5.5 mr	1
Technical data	FN (0.420.00	FN (0.420.00
Standard Pala arrange PIN	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	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 4100 grau/grey	MAS 4100 UM grau/grey	MAS (100 IIM schwarz /black	MAS 5100 grau/grey
		MAS 4100 UM schwarz/black	
930 963-517 male	931 173-117 male	931 173-100 male	930 964-517 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
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	7 4 3 2 5 1 1 for cable dia. 5.5 mm
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
Lit 00 130-07	LIT 00 170-07	Lit 00 150-07	Lit 00 150-05
<= 4 A	<= 4 A	<= 4 A	<= 4 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
Soluci	SUILEI	Soluci	SUIUCI
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

Straight plugs



MINIATURE MULTIPLE CONNECTORS



Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	for cable dia. 5.5 mm	for cable dia. 5.5 mm for cable dia. 5.5 mm for cable dia. 5.5 mm for cable dia. 5.5 mm
Technical data Standard	EN 60 130-09	EN 60 130-09
Pole arrangement DIN	LIV 00 130-07	DIN 41 524
Rated current	<= 4 A	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Rated current Rated voltage	UC 34 V	UC 34 V
Cable diameter	5.5 mm	5.5 mm
Type of termination	solder	solder
Material	Soluei	Soluci
	horas	huse
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
plug with locking sciew; solder joint	plug with locking screw; solder joint	plug with locking sciew; solder John	plug with locking screw; solder joint
grey	grey	grey	grey
5	6	6	7
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm	for cable dia. 5.5 mm
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
<= 4 A	<= 4 A	<= 4 A	<= 4 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
20 0 10 700 0	20 0 10 100 0	20 0 10 100 0	20 0 10 100 0
industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag

Straight plugs

MINIATURE MULTIPLE CONNECTORS





Product description		
Туре	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	<= 0.34 mm²	<= 0.34 mm²
Drawing		
	for cable dia. 5.5 mm	for cable dia. 5.5 mm
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	κ= 4 A UC 34 V	<= 4 A UC 34 V
Rated voltage Cable diameter	UC 34 V 5.5 mm	UC 34 V 5.5 mm
	solder	
Type of termination Material	Solder	solder
Contact material	brace	bross
Contact material Contact surface material	brass	brass tip plated
	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	ID 00	ID as
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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
7 3 4 1 8 7 for cable dia. 5.5 mm	for cable dia. 5.5 mm	7 3 3 4 1 7 6 for cable dia. 5.5 mm 6 13.2 M16 x 0.75	7 3 4 1 7 6 for cable dia. 5.5 mm 6 M16 x 0.75
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
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight plugs

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	
Description	plug with tocking screw, solder joint	
Housing colour	black	
Poles	14	
Conductor cross-section	<= 0.34 mm²	
Drawing		
Technical data	for cable dia. 5.5 mm 8 9 M16 x 0.75	
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 PE	
Environmental conditions		
	IP 30	
Protection class (IEC 60529)	IP 30 -20 °C to +60 °C	
	IP 30 -20 °C to +60 °C	

Angled plugs





Product description		
Туре	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		
	52.5 31 52.5 52.5 60 60 60 60 60 60 60 60 60 60	52.5 31 52.5 31 60 60 60 60 60 60 60 60 60 60
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 join
grey	grey	grey	grey
5	5	6	8
<= 0.34 mm ²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm ²
3 3 4 5 52.5 31 6 6 6 7 6 7 7 7 7 8 9 13.2 6 7 13.2 7 13.2 14.5 15	52.5 31 52.5 31 60 60 60 60 60 60 60 60 60 60 60 60 60	52.5 31 6 6 6 6 7 6 7 6 6 7 6 7 6 7 7 7 7 8 9 13.2 7 13.2 14.5 15	2 1 7 6 5 3 8 52.5 or or cable dia. 5.5 mm
FN (0.120.00	FN (0.420.00	FN (0.420.00	FN (0.420.00
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)
<= 4 A	<= 4 A	<= 4 A	<= 4 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
20 0 10 100 0	20 0 10 700 0	20 0 10 700 0	20 0 10 100 0
retail package, polyethylene bag	retail package, polyethylene bag	retail package, polyethylene bag	industry package, box; individual parts no assembled, sorted

Panel-mounted plugs





Product description			
Туре	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	<= 0.34 mm²	<= 0.34 mm ²	
Drawing			
	M18 x 0.75 M18 x 0.75 M16 x 0.75	M18 x 0.75 M18 x 0.75 M16 x 0.75	
	Assembly hole	Assembly hole	
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	Г
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	





### ### ### ### ### ### ### ### ### ##			
930 93-95-17 male grey pand-industed plug with locking screw; sulder plint 6 c= 0.34 mm² 18.1 Assertably hole EN 60 130-09 DN 45 322 c= 4 4 UC 34 Y Solder Drass Implated PA 66/UL standard 94V-2 PE	MASEI 6100 grau/grey		
### Services Service	930 958-517		
Date of the property of the pr			
Solder joint 6 6 6 6 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8	grey		
CO.34 mm² M18 x 0.75 M18 x 0.75 M18 x 0.75 M16 x 0.75 M16 x 0.75 EN 60 130 09 DN 45 322 C ← 4 A U. 34 V Solder Drass Lin plated PP 66/U. Islandard 94V-2 PE PP 50	panel-mounted plug with locking screw; solder joint		
M18 x 0.75 Assembly hole EN 60 130-09 DN 45 322 ← 4 A U 3 4 V Solder brass brass brass brin plated PA 66/UL standard 94V-2 PE PE			
EN 60 130-09 On 45 322 C= A A U C 3AV Solder Drass In plated PA 66/UL standard 94V-2 PE PE PE	<= 0.34 mm²		
EN 60 130-09 On 45 322 C= A A U C 3AV Solder Drass In plated PA 66/UL standard 94V-2 PE PE PE			
DIN 45 322	M18 x 0.75 M18 x 0.75 M16 x 0.75 Assembly hole		
DIN 45 322			
C= 4 A UC 34 V Solder Image: Control of the plant of			
UC 34 V solder	DIN 45 322		
Solder	<= 4 A		
brass tin plated PA 66/UL standard 94V-2 PE IP 30			
tin plated PA 66/UL standard 94V-2 PE IP 30	solder		
tin plated PA 66/UL standard 94V-2 PE IP 30			
PA 66/UL standard 94V-2 PE IP 30			
PE	tin plated		
IP 30	PA 66/UL standard 94V-2		
	PE		
	ID 00		
-20 °C 10 +60 °C			
	-20 °C to +60 °C		

Straight sockets





But her handatten			
Product description	May 2 co C		
Туре	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			
	for cable dia. 5.5 mm	for cable dia. 5.5 mm 9'89 2 2 3 4 4 5 5 6 6 7 6 6 7 6 7 8 9'89	
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	T	1	
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	











MAY (100 gray/gray	MAY (100 IIM group group	MAY (100 HM cehwarz/block	MAK F100 gray/gray
MAK 4100 grau/grey 930 959-517	MAK 4100 UM grau/grey 931 175-117	MAK 4100 UM schwarz/black	MAK 5100 grau/grey 930 960-517
930 959-517 female	931 1/5-11/ female	931 175-100 female	930 960-517 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
Socket with locking Sciew; Solder Joint	Socket with locking Sciew; Solder Joint	Socket with locking Sciew; Solder Joint	Socket with locking Sciew; Solder Joint
grey	grey	black	grey
4	4	4	5
 <= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
· 0.54 IIIII	· 0.54 IIIII	V 0.54 mm	· 0.54 mm
9 8 9 9 8 9 5 5 5 mm	7 60 10 4 for cable dia. 5.5 mm 9 89 9 89	7 60 10 4 for cable dia. 5.5 mm 9 89 9 89	7 1 2 4 1 5 5 for cable dia. 5.5 mm 9 89 9 89
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight sockets



MINIATURE MULTIPLE CONNECTORS



Product description		
Туре	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		
	for cable dia. 5.5 mm	for cable dia. 5.5 mm
Technical data		
Standard PIN	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
Comment dell'emmande de la commentation		
Scope of delivery and accessories	industry package, box; individual parts not	











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
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
7 1 2 5 3 for cable dia. 5.5 mm 9 899	7 6 3 4 1 5 for cable dia. 5.5 mm	7 2 2 3 4 5 5 for cable dia. 5.5 mm	7 60 16 16 17 30 4 2 30 7 7 7 7 7 9 8 8 9 8 8 9
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
<= 4 A	<= 4 A	<= 4 A	<= 4 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

Straight sockets





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
<u> </u>	g . , ,	
Housing colour	grey	grey
Poles	7	8
Conductor cross-section Drawing	<= 0.34 mm ²	<= 0.34 mm²
	for cable dia. 5.5 mm	7 4 4 1 1 5 3 7 8 for cable dia. 5.5 mm
Technical data	5W (0.400.00	FW (0.400.00
Standard PIN	EN 60 130-09	EN 60 130-09
Pole arrangement DIN	DIN 45 329	DIN 41 524 (sockets 1-5)
Rated current	<= 4 A UC 34 V	<= 4 A UC 34 V
Rated voltage Cable diameter	5.5 mm	UC 34 V 5.5 mm
Type of termination	solder	
Naterial	Solder	solder
Contact material (socket)	brass	brass
Contact material (socket) Contact surface material	tin plated	tin plated
Contact Surface material	PA 66/UL standard 94V-2	PA 66/UL standard 94V-2
Housing material	PE	PE PE
Environmental conditions	10	12
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	20 010 100 0	-1 10 100 0
Packaging	industry package, box; individual parts not assembled, sorted	retail package, polyethylene bag











MAK 8100 S UM grau/grey	MAK 8100 S UM schwarz/black	MAK 8100 SN UM grau/grey	MIK 1400 AU grau/grey
931 127-117	931 127-100	931 765-117	932 220-517
female	female	female	female
socket with locking screw; solder joint	socket with locking screw; solder joint	socket with locking screw; solder joint	socket with insulated handle; solder joint
arou	black	area.	are).
grey 8	8	grey 8	grey 14
<= 0.34 mm ²	o <= 0.34 mm²	o <= 0.34 mm²	<= 0.34 mm ²
(= 0.34 IIIII-	(= 0.54 IIIII-	(= 0.54 IIIII1 ²	(= 0.54 IIIII-
7 4 1 1 3 3 7 8 for cable dia. 5.5 mm	7 4 2 5 7 8 8 for cable dia. 5.5 mm	7 4 4 1 6 1 6 7 6 7 6 7 6 7 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9	for cable dia. 5.5 mm
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
DIN 41 524 (sockets 1-5)	DIN 41 524 (sockets 1-5)	DIN 45 326	
<= 4 A	<= 4 A	<= 4 A	<= 3 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	retail package, polyethylene bag

WITH LOCKING SCREW

MINIATURE MULTIPLE CONNECTORS

Straight sockets





Product description			
Туре	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	<= 0.34 mm ²	<= 0.34 mm²	
Drawing			
	for cable dia. 5.5 mm	for cable dia. 5.5 mm	
Technical data			
Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN			
Rated current	(= 3 A	<= 3 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	



Panel-mouted sockets





Product description		
Туре	MAB 3100 S grau/grey	MAB 3100 S schwarz/black
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
Drawing		
	45 Assembly hole	M18 x 0.75 Assembly hole
	18.1 18.1	18.1 18.1
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 (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 4100 grau/grey	MAB 5100 grau/grey	MAB 5100 S grau/grey	MAB 5100 S schwarz/black
	930 951-517	930 952-517	930 953-517	930 953-500
	female	female	female	female
	grey	grey	grey	black
	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; solder joint; not shielded
	4	5	5	5
	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
	7 00 00 1 00 4	7 520 × 91 1 1 5	7 50 50 50 50 50 50 50 50 50 50	7 920 00 100 3 100 3
	M18 x 0.75	M18 x 0.75	M18 x 0.75	M18 x 0.75
	Assembly hole	Assembly hole	Assembly hole	Assembly hole
	EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
			DIN 41 524	DIN 41 524
	<= 4 A	<= 4 A	<= 4 A	<= 4 A
	UC 34 V	UC 34 V	UC 34 V	UC 34 V
	solder	solder	solder	solder
\rightarrow				
	brass	brass	brass	brass
	tin plated	tin plated	tin plated	tin plated
	PA 66/UL standard 94V-2			
	PE	PE	PE	PE
	IP 30	IP 30	IP 30	IP 30
	-20 °C to +60 °C			

Panel-mouted sockets





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Product description			
Туре	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 panel-mounted socket with locking screw;	
Description	panel-mounted socket with locking screw; solder joint; not shielded	solder joint; not shielded	
Poles	6	7	
Conductor cross-section	<= 0.34 mm ²	<= 0.34 mm ²	
Drawing	· 0.54 IIIII	V 0.54 IIIII	
	M18 x 0.75 M18 x 0.75 Assembly hole 18.1	M18 x 0.75 M18 x 0.75 Assembly hole 1	
Technical data Standard	EN 60 130-09	EN 60 130-09	
Pole arrangement DIN	DIN 45 322	DIN 45 329	
Rated current	□ DIN 45 522 <= 4 A	<= 4 A	
Rated current Rated voltage	UC 34 V	UC 34 V	
Type of termination	solder	solder	
Material	55		
Contact material (socket)	brass	brass	
Contact inaterial (Sockey)	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	
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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;	panel-mounted socket with locking screw;	panel-mounted socket with locking screw;	panel-mounted socket with locking screw; for
solder joint; not shielded	solder joint; not shielded	solder joint; not shielded	PCB mounting; solder joint; not shielded
8	8	8	4
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
Assembly hole Assembly hole	7 92 92 92 93 48 2 5 1 3 3 6 7 91 91 91 91	4 8 2 5 1 2 3 6 7 7	Arrangement of the soldering points on the components side 7,4±0.1 10,0 10,
FN (0.120.00	EN (0.120.00	FN (0.120.00	FN (0.130.00
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	ζ= /, Δ
<= 4 A	<= 4 A	<= 4 A	<= 4 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	PE PE	PE PE
	ID as	ID as	ID as
 IP 30	IP 30	IP 30	IP 30

Panel-mouted sockets





Product description			
уре	MAB 6100 V grau/grey	MIB 1400 schwarz/black	
rder No.	932 202-517	932 221-500	
ype of contact	female	female	
olour	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	<= 0.34 mm²	<= 0.34 mm²	
Drawing			
	Arrangement of the soldering points on the components side 9.7 ***Display** Arrangement of the soldering points on the components side 9.7 ***Display** 2.6 ***Display** 2.7 **Display** 2.7	2.6 800 M18 x 0.75 Assembly hole	
Tochnical data		EN 60 130-09	
Technical data		LIV 00 130-09	
Standard	EN 60 130-09		
Standard Pole arrangement DIN	DIN 45 322		
Standard Pole arrangement DIN Rated current	DIN 45 322 <= 4 A	<= 3 A	
Standard Pole arrangement DIN Rated current Rated voltage	DIN 45 322 <= 4 A UC 34 V	<= 3 A UC 34 V	
Standard Pole arrangement DIN Rated current Rated voltage Type of termination	DIN 45 322 <= 4 A	<= 3 A	
Standard Pole arrangement DIN Rated current Rated voltage Type of termination Material	DIN 45 322 <= 4 A UC 34 V	<= 3 A UC 34 V	
itandard Pole arrangement DIN Lated current Lated voltage Ype of termination Aaterial	DIN 45 322 <= 4 A UC 34 V	<= 3 A UC 34 V	
Standard Pole arrangement DIN Lated current Lated voltage Lype of termination Material London Honor H	DIN 45 322 <= 4 A UC 34 V solder	<= 3 A UC 34 V solder	
tandard ole arrangement DIN ated current ated voltage ype of termination flaterial ontact material (socket) ontact surface material	DIN 45 322 <= 4 A UC 34 V solder brass tin plated	<= 3 A UC 34 V solder brass tin plated	
Standard Pole arrangement DIN Lated current Lated voltage ype of termination Anterial Contact material (socket) Contact surface material Contact bearer material	DIN 45 322 <= 4 A UC 34 V solder brass tin plated PA 66/UL standard 94V-2	<= 3 A UC 34 V solder brass tin plated PA 66/UL standard 94V-2	
Standard Pole arrangement DIN Rated current Rated voltage Type of termination Material Contact material (socket) Contact surface material Contact bearer material Housing material	DIN 45 322 <= 4 A UC 34 V solder brass tin plated	<= 3 A UC 34 V solder brass tin plated	
Standard Pole arrangement DIN Rated current Rated voltage	DIN 45 322 <= 4 A UC 34 V solder brass tin plated PA 66/UL standard 94V-2	<= 3 A UC 34 V solder brass tin plated PA 66/UL standard 94V-2	











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;	panel-mounted socket with locking screw;	panel-mounted socket with locking screw;	panel-mounted socket with locking screw;
for installation in rear panels; max. panel	for PCB mounting; solder joint; not shielded	for installation in rear panels; max. panel	for installation in rear panels; max. panel
thickness 4 mm; solder joint; not shielded	, , , , , , , , , , , , , , , , , , , ,	thickness 4 mm; solder joint; not shielded	thickness 4 mm; solder joint; not shielded
4	7	8	8
<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²	<= 0.34 mm²
. 0,5 ,	. 0.5 /	. 0.5 /	. 0.5 /
200 13.3 200 0 12 0 13 0	7 6 1 2 1 2 3 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	M16 x 0.75 13.3 45° 1.1.5 1.1.5 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	200 13.3 4.5.0 200 200 200 200 200 200 200 2
Assembly hole	Assembly hole Assembly hole 18.1	2.6 M18 x 0.75 Assembly hole	2.6 M18 x 0.75 Assembly hole
Arrangement of the soldering points on the components side 7.4 * 0.1 18	Arrangement of the soldering points on the components side 9.7 = 0.1	Arrangement of the soldering points on the components side	Arrangement of the soldering points on the components side 7.4 ± 0.1 0.7 ± 0.05 0.7 ± 0.05 0.7 ± 0.05 0.7 ± 0.05
EN 60 130-09	EN 60 130-09	EN 60 130-09	EN 60 130-09
	DIN 45 329	DIN 41 524 (sockets 1-5)	DIN 45 326
<= 4 A	<= 4 A	<= 4 A	<= 4 A
UC 34 V	UC 34 V	UC 34 V	UC 34 V
solder	solder	solder	solder
Suidel	SUIUCI	SUIUCI	SUIUEI
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
20 C t0 T00 C	20 C to +00 C	20 C to +00 C	20 010 100 0

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