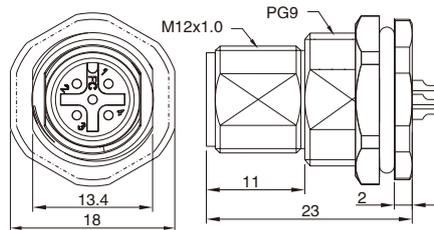


## M12 Male Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MS\*FHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFHD03ST-3 MB12MSBFHD03ST-3 MB12MSCFHD03ST-3
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFHD04ST-3 MB12MSBFHD04ST-3 MB12MSCFHD04ST-3 MB12MSDFHD04ST-3
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFHD05ST-3 MB12MSBFHD05ST-3 MB12MSCFHD05ST-3
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFHD08ST-3

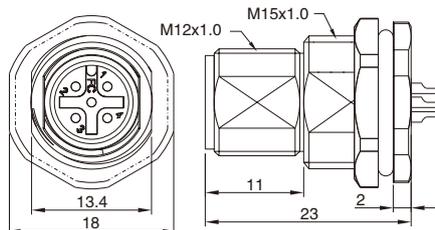
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MS\*FP\*\*ST-1

\* refers to coding type  
\*\* refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFP03ST-1 MB12MSBFP03ST-1 MB12MSCFP03ST-1
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFP04ST-1 MB12MSBFP04ST-1 MB12MSCFP04ST-1 MB12MSDFP04ST-1
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFP05ST-1 MB12MSBFP05ST-1 MB12MSCFP05ST-1
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFP06ST-1
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFP08ST-1

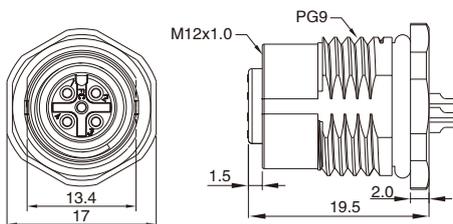
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FS\*FHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFHD03ST-3 MB12FSBFHD03ST-3 MB12FSCFHD03ST-3
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFHD04ST-3 MB12FSBFHD04ST-3 MB12FSCFHD04ST-3 MB12FSDFHD04ST-3
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFHD05ST-3 MB12FSBFHD05ST-3 MB12FSCFHD05ST-3
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFHD08ST-3

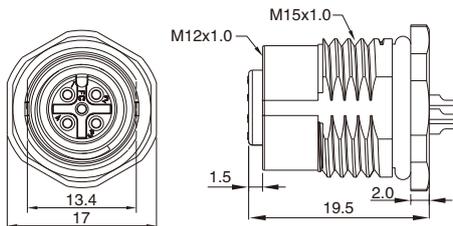
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12FS\*FP\*\*ST-1

\* refers to coding type  
\*\* refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFP03ST-1 MB12FSBFP03ST-1 MB12FSCFP03ST-1
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFP04ST-1 MB12FSBFP04ST-1 MB12FSCFP04ST-1 MB12FSDFP04ST-1
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFP05ST-1 MB12FSBFP05ST-1 MB12FSCFP05ST-1
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFP06ST-1
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFP08ST-1

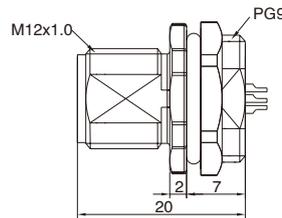
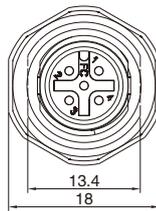
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS\*RHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSARHD03ST-3 MB12MSBRHD03ST-3 MB12MSCRHD03ST-3
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSARHD04ST-3 MB12MSBRHD04ST-3 MB12MSCRHD04ST-3 MB12MSDRHD04ST-3
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARHD05ST-3 MB12MSBRHD05ST-3 MB12MSCRHD05ST-3
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSARHD08ST-3

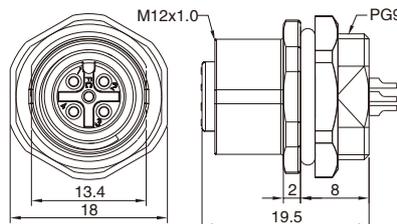
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS\*RHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSARHD03ST-3 MB12FSBRHD03ST-3 MB12FSCRHD03ST-3
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSARHD04ST-3 MB12FSBRHD04ST-3 MB12FSCRHD04ST-3 MB12FSDRHD04ST-3
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARHD05ST-3 MB12FSBRHD05ST-3 MB12FSCRHD05ST-3
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSARHD08ST-3

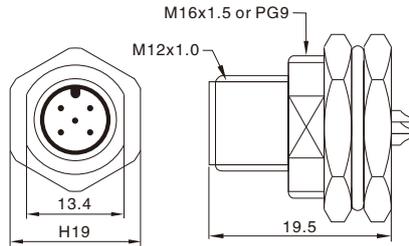
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MS\*FF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFF03ST-X MB12MSBFF03ST-X MB12MSCFF03ST-X
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFF04ST-X MB12MSBFF04ST-X MB12MSCFF04ST-X MB12MSDFF04ST-X
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFF05ST-X MB12MSBFF05ST-X MB12MSCFF05ST-X
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFF06ST-X
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFF08ST-X
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFF12ST-X
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB17MSAFF17ST-X

Note: X refers to Chassis-side thread size

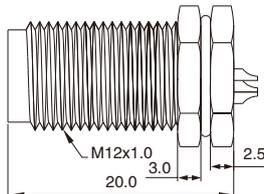
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MSAFP\*\*ST-0

\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector body:	PA+ GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.	
			A/C	D/C	AWG	mm <sup>2</sup>			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSAFP04ST-0
05 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSAFP05ST-0
08 pins		Solder version	2A	30V	30V	24AWG	0.25	PVC wire or customized	MB12MSAFP08ST-0

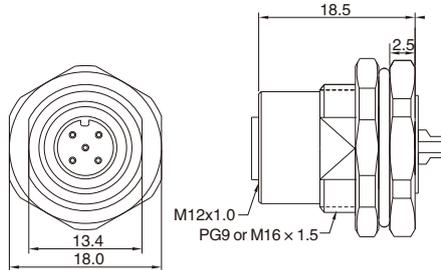
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FS\*FF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFF03ST- <u>X</u> MB12FSBFF03ST- <u>X</u> MB12FSCFF03ST- <u>X</u>
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFF04ST- <u>X</u> MB12FSBFF04ST- <u>X</u> MB12FSCFF04ST- <u>X</u> MB12FSDFF04ST- <u>X</u>
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFF05ST- <u>X</u> MB12FSBFF05ST- <u>X</u> MB12FSCFF05ST- <u>X</u>
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFF06ST- <u>X</u>
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFF08ST- <u>X</u>
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFF12ST- <u>X</u>
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFF17ST- <u>X</u>

Note: X refers to Chassis-side thread size

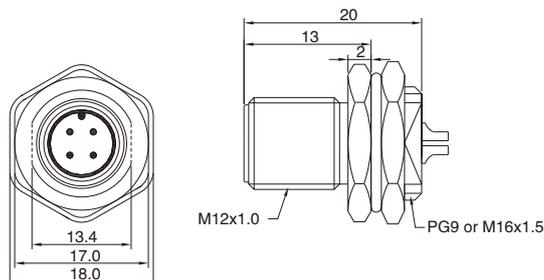
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS\*RF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-20°C ~ +90°C	Contact resistance :	≤ 5mΩ
Connector insert:	TPU	Shielding:	Unavailable
Connector contacts:	Brass with gold plated	IP rating:	IP68 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 287
Seal / O-ring:	Epoxy resin / FKM	Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF03ST- <u>X</u> MB12MSBRF03ST- <u>X</u> MB12MSCRF03ST- <u>X</u>
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF04ST- <u>X</u> MB12MSBRF04ST- <u>X</u> MB12MSCRF04ST- <u>X</u> MB12MSDRF04ST- <u>X</u>
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARF05ST- <u>X</u> MB12MSBRF05ST- <u>X</u> MB12MSCRF05ST- <u>X</u>
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRF06ST- <u>X</u>
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSARF08ST- <u>X</u>
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF12ST- <u>X</u>
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF17ST- <u>X</u>

Note: X refers to Chassis-side thread size

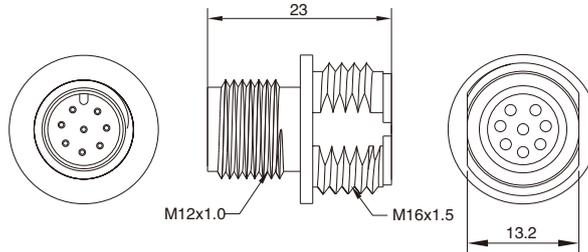
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Plastic Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Rear fastened
- Part No.: MB12MSARP\*\*ST-2

\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector body:	PA+ GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.	
			A/C	D/C	AWG	mm <sup>2</sup>			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSARP04ST-2
05 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSARP05ST-2
08 pins		Solder version	2A	30V	30V	24AWG	0.25	PVC wire or customized	MB12MSARP08ST-2

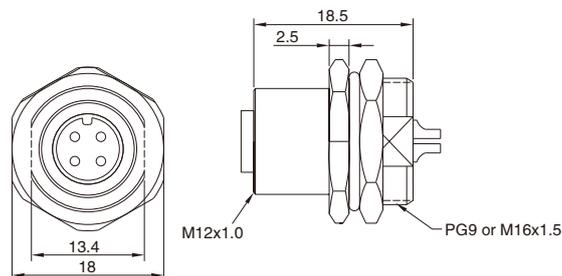
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Solder, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS\*RF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-20°C ~ +90°C	Contact resistance :	≤ 5mΩ
Connector insert:	PA+GF	Shielding:	Unavailable
Connector contacts:	Brass with gold plated	IP rating:	IP68 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 287
Seal / O-ring:	Epoxy resin / FKM	Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF03ST-X MB12FSBRF03ST-X MB12FSCRF03ST-X
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF04ST-X MB12FSBRF04ST-X MB12FSCRF04ST-X MB12FSDRF04ST-X
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARF05ST-X MB12FSBRF05ST-X MB12FSCRF05ST-X
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRF06ST-X
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSARF08ST-X
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF12ST-X
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF17ST-X

Note: X refers to Chassis-side thread size

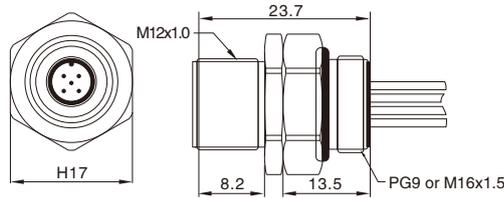
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Solder, Rear fastened, Adjustable Nut

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS\*RF\*\*ST-X(Adjustable)

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF03ST-X(adj) MB12MSBRF03ST-X(adj) MB12MSCRF03ST-X(adj)
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF04ST-X(adj) MB12MSBRF04ST-X(adj) MB12MSCRF04ST-X(adj) MB12MSDRF04ST-X(adj)
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARF05ST-X(adj) MB12MSBRF05ST-X(adj) MB12MSCRF05ST-X(adj)
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRF06ST-X(adj)
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSARF08ST-X(adj)
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF12ST-X(adj)
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF17ST-X(adj)

Note: X refers to Chassis-side thread size

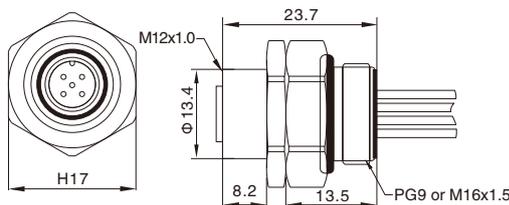
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Solder, Rear fastened, Adjustable Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS\*RF\*\*ST-X(Adjustable)

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF03ST-X(adj) MB12FSBRF03ST-X(adj) MB12FSCRF03ST-X(adj)
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF04ST-X(adj) MB12FSBRF04ST-X(adj) MB12FSCRF04ST-X(adj) MB12FSDRF04ST-X(adj)
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARF05ST-X(adj) MB12FSBRF05ST-X(adj) MB12FSCRF05ST-X(adj)
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRF06ST-X(adj)
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSARF08ST-X(adj)
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF12ST-X(adj)
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF17ST-X(adj)

Note: X refers to Chassis-side thread size

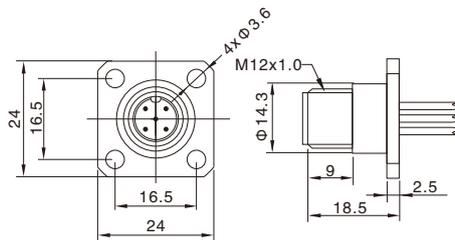
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Solder, with Flange

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Flange
- Part No.: MB12MS\*FLF\*\*ST

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +80°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFLF03ST MB12MSBFLF03ST MB12MSCFLF03ST
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFLF04ST MB12MSBFLF04ST MB12MSCFLF04ST MB12MSDFLF04ST
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFLF05ST MB12MSBFLF05ST MB12MSCFLF05ST
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFLF06ST
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFLF08ST
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFLF12ST
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFLF17ST

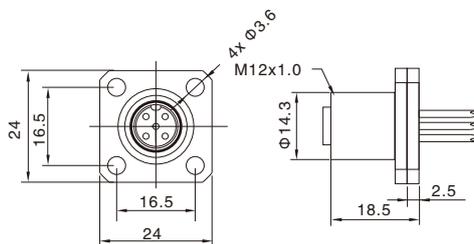
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Solder, with Flange

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Flange
- Part No.: MB12FS\*FLF\*\*ST

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +80°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFLF03ST MB12FSBFLF03ST MB12FSCFLF03ST
04 pins					Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFLF04ST MB12FSBFLF04ST MB12FSCFLF04ST MB12FSDFLF04ST
05 pins					Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFLF05ST MB12FSBFLF05ST MB12FSCFLF05ST
06 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFLF06ST
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFLF08ST
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFLF12ST
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFLF17ST

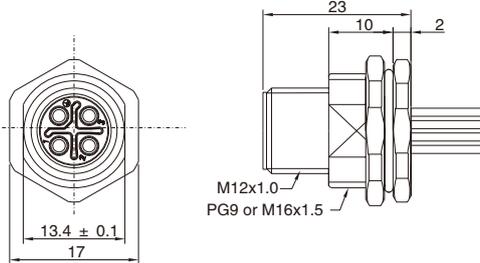
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Crimp, Front fastened, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MCSFF\*\*ST-XXXX

\*\* refers to pins number  
X refers to Chassis-side thread size  
 XXX refers to cable specification



### General information

Ambient temperature:	-20°C ~ +80°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
				AWG	mm <sup>2</sup>		
04 pins  (3+PE)	Crimp version	12A(40°C)	630V	16AWG	1.5	PVC wire or customized	MB12MCSFF04ST- <u>X</u> 150

Note: X refers to Chassis-side thread size

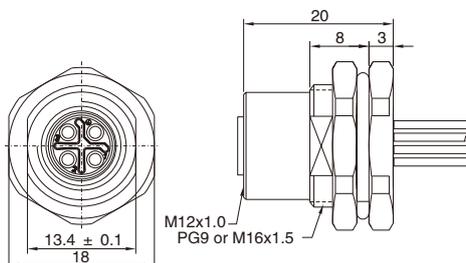
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Crimp, Front fastened, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCSFF\*\*ST-XXXX

\*\* refers to pins number  
X refers to Chassis-side thread size  
 XXX refers to cable specification



### General information



Ambient temperature:	-20°C ~ +80°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
				AWG	mm <sup>2</sup>		
04 pins  (3+PE)	Crimp version	12A(40°C)	630V	16AWG	1.5	PVC wire or customized	MB12FCSFF04ST- <u>X</u> 150

Note: X refers to Chassis-side thread size

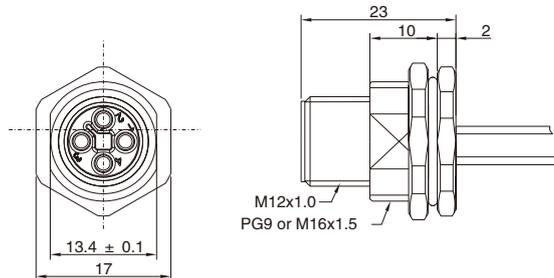
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Crimp, Front fastened, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MCTFF\*\*ST-XXXX

\*\* refers to pins number  
X refers to Chassis-side thread size  
 XXX refers to cable specification



### General information



Ambient temperature:	-20°C ~ +80°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
				AWG	mm <sup>2</sup>		
04 pins		12A(40°C)	60V	16AWG	1.5	PVC wire or customized	MB12MCTFF04ST- <u>X</u> 150

Note: X refers to Chassis-side thread size

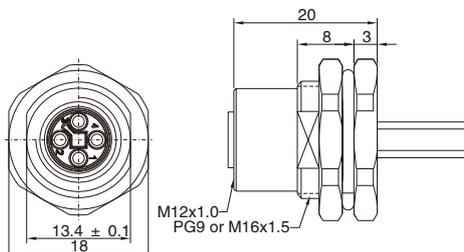
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Crimp, Front fastened, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCTFF\*\*ST-XXXX

\*\* refers to pins number  
X refers to Chasis-side thread size  
 XXX refers to cable specification



### General information



Ambient temperature:	-20°C ~ +80°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
				AWG	mm <sup>2</sup>		
04 pins 	Crimp version	12A(40°C)	60V	16AWG	1.5	PVC wire or customized	MB12FCTFF04ST- <u>X</u> 150

Note: X refers to Chasis-side thread size

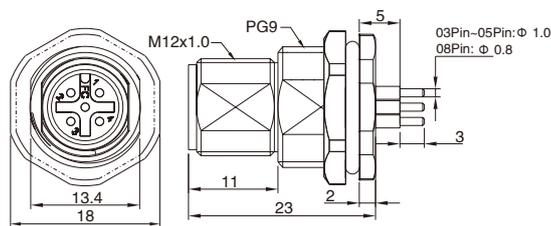
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Die-cast Screw, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB\*FHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBAFHD03ST-3 MB12MBBFHD03ST-3 MB12MBCFHD03ST-3
04 pins					PCB version	4A	250V	250V	MB12MBAFHD04ST-3 MB12MBBFHD04ST-3 MB12MBCFHD04ST-3 MB12MBDFHD04ST-3
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBAFHD05ST-3 MB12MBBFHD05ST-3 MB12MBCFHD05ST-3
06 pins					PCB version	2A	30V	30V	MB12MBCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12MBAFHD08ST-3

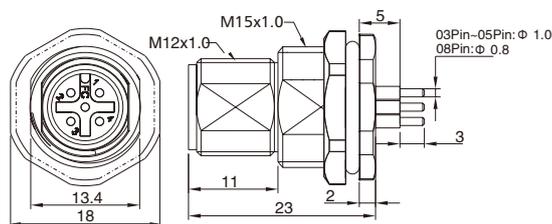
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MB\*FP\*\*ST-1

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBAFP03ST-1 MB12MBBFP03ST-1 MB12MBCFP03ST-1
04 pins					PCB version	4A	250V	250V	MB12MBAFP04ST-1 MB12MBBFP04ST-1 MB12MBCFP04ST-1 MB12MBDFP04ST-1
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBAFP05ST-1 MB12MBBFP05ST-1 MB12MBCFP05ST-1
06 pins					PCB version	2A	30V	30V	MB12MBCFP06ST-1
08 pins					PCB version	2A	30V	30V	MB12MBAFP08ST-1

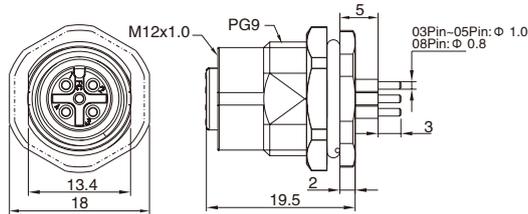
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Die-cast Screw, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FB\*FHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBAFHD03ST-3 MB12FBBFHD03ST-3 MB12FBCFHD03ST-3
04 pins					PCB version	4A	250V	250V	MB12FBAFHD04ST-3 MB12FBBFHD04ST-3 MB12FBCFHD04ST-3 MB12FDBFHD04ST-3
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBAFHD05ST-3 MB12FBBFHD05ST-3 MB12FBCFHD05ST-3
06 pins					PCB version	2A	30V	30V	MB12FBCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12FBAFHD08ST-3

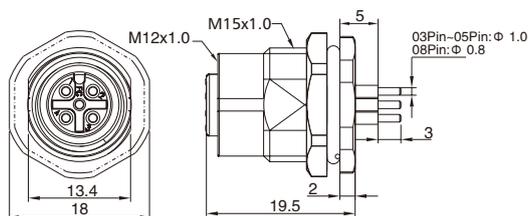
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12FB\*FP\*\*ST-1

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBAFP03ST-1 MB12FBBFP03ST-1 MB12FBCFP03ST-1
04 pins					PCB version	4A	250V	250V	MB12FBAFP04ST-1 MB12FBBFP04ST-1 MB12FBCFP04ST-1 MB12FBDFP04ST-1
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBAFP05ST-1 MB12FBBFP05ST-1 MB12FBCFP05ST-1
06 pins					PCB version	2A	30V	30V	MB12FBCFP06ST-1
08 pins					PCB version	2A	30V	30V	MB12FBAFP08ST-1

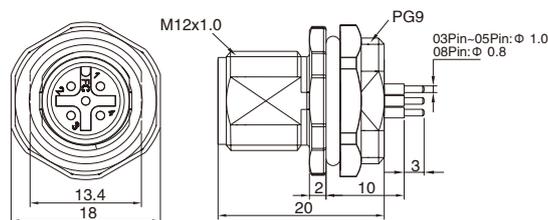
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MB\*RHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBARHD03ST-3 MB12MBBRHD03ST-3 MB12MBCRHD03ST-3
04 pins					PCB version	4A	250V	250V	MB12MBARHD04ST-3 MB12MBBRHD04ST-3 MB12MBCRHD04ST-3 MB12MBDRHD04ST-3
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBARHD05ST-3 MB12MBBRHD05ST-3 MB12MBCRHD05ST-3
06 pins					PCB version	2A	30V	30V	MB12MBCRHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12MBARHD08ST-3

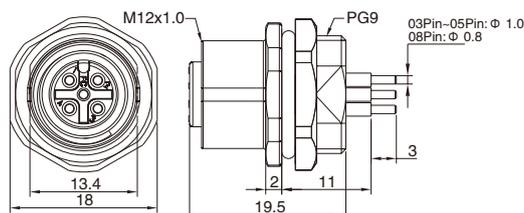
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FB\*RHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBARHD03ST-3 MB12FBBRHD03ST-3 MB12FBCRHD03ST-3
04 pins					PCB version	4A	250V	250V	MB12FBARHD04ST-3 MB12FBBRHD04ST-3 MB12FBCRHD04ST-3 MB12FBDHRD04ST-3
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBARHD05ST-3 MB12FBBRHD05ST-3 MB12FBCRHD05ST-3
06 pins					PCB version	2A	30V	30V	MB12FBCRHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12FBARHD08ST-3

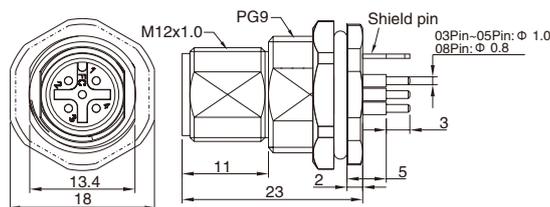
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS\*FHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBSAFHD03ST-3 MB12MBSBFHD03ST-3 MB12MBSCFHD03ST-3
04 pins					PCB version	4A	250V	250V	MB12MBSAFHD04ST-3 MB12MBSBFHD04ST-3 MB12MBSCFHD04ST-3 MB12MBSDFHD04ST-3
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFHD05ST-3 MB12MBSBFHD05ST-3 MB12MBSCFHD05ST-3
06 pins					PCB version	2A	30V	30V	MB12MBSCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12MBSAFHD08ST-3

### Remarks

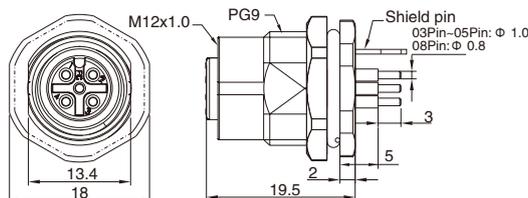
- Please refer to Page 96 for products' part number encoding rule.



## M12 Female Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS\*FHD\*\*ST-3

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-25°C ~ +90°C	Contact resistance :	≤ 5mΩ
Connector insert:	PA	Shielding:	Available
Connector contacts:	Brass with gold plated	IP rating:	IP68 in locked condition
Connector nut/screw:	Zinc alloy with nickel plated	Panel cut-out:	Refer to page 287
Seal / O-ring:	Epoxy resin / FKM	PCB layout:	Refer to page 286
		Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBSAFHD03ST-3 MB12FBSBFHD03ST-3 MB12FBSCFHD03ST-3
04 pins					PCB version	4A	250V	250V	MB12FBSAFHD04ST-3 MB12FBSBFHD04ST-3 MB12FBSCFHD04ST-3 MB12FBSDFHD04ST-3
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFHD05ST-3 MB12FBSBFHD05ST-3 MB12FBSCFHD05ST-3
06 pins					PCB version	2A	30V	30V	MB12FBSCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12FBSAFHD08ST-3

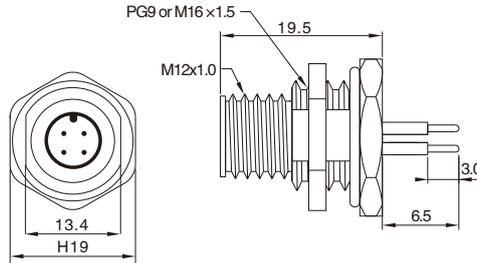
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB\*FF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBAFF03ST- <u>X</u> MB12MBBFF03ST- <u>X</u> MB12MBCFF03ST- <u>X</u>
04 pins					PCB version	4A	250V	250V	MB12MBAFF04ST- <u>X</u> MB12MBBFF04ST- <u>X</u> MB12MBCFF04ST- <u>X</u> MB12MBDFF04ST- <u>X</u>
05 pins					PCB version	4A 2A (C-code)	60V	60V	MB12MBAFF05ST- <u>X</u> MB12MBBFF05ST- <u>X</u> MB12MBCFF05ST- <u>X</u>
06 pins					PCB version	2A	30V	30V	MB12MBCFF06ST- <u>X</u>
08 pins					PCB version	2A	30V	30V	MB12MBAFF08ST- <u>X</u>
12 pins					PCB version	1.5A	30V	30V	MB12MBAFF12ST- <u>X</u>
17 pins					PCB version	1.5A	30V	30V	MB12MBAFF17ST- <u>X</u>

Note: X refers to Chassis-side thread size

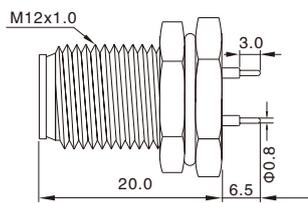
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB\*FF\*\*ST-0

\* refers to coding type  
\*\* refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBAFF03ST-0 MB12MBBFF03ST-0 MB12MBCFF03ST-0
04 pins					PCB version	4A	250V	250V	MB12MBAFF04ST-0 MB12MBBFF04ST-0 MB12MBCFF04ST-0 MB12MBDFF04ST-0
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBAFF05ST-0 MB12MBBFF05ST-0 MB12MBCFF05ST-0
06 pins					PCB version	2A	30V	30V	MB12MBCFF06ST-0
08 pins					PCB version	2A	30V	30V	MB12MBAFF08ST-0
12 pins					PCB version	1.5A	30V	30V	MB12MBAFF12ST-0
17 pins					PCB version	1.5A	30V	30V	MB12MBAFF17ST-0

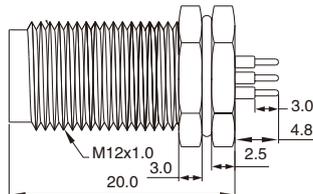
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MBAFP\*\*ST-0

\*\* refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA + GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
04 pins 	PCB version	4A	250V	250V	MB12MBAFP04ST-0
05 pins 	PCB version	4A	60V	60V	MB12MBAFP05ST-0
08 pins 	PCB version	2A	30V	30V	MB12MBAFP08ST-0

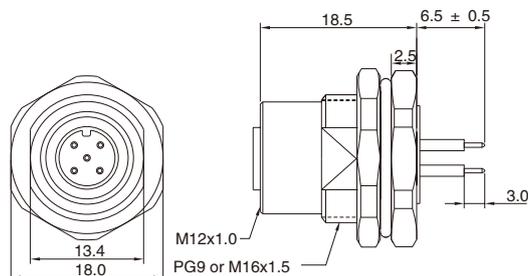
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FB\*FF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBAFF03ST-X MB12FBBFF03ST-X MB12FBCFF03ST-X
04 pins					PCB version	4A	250V	250V	MB12FBAFF04ST-X MB12FBBFF04ST-X MB12FBCFF04ST-X MB12FBDFF04ST-X
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBAFF05ST-X MB12FBBFF05ST-X MB12FBCFF05ST-X
06 pins					PCB version	2A	30V	30V	MB12FBCFF06ST-X
08 pins					PCB version	2A	30V	30V	MB12FBAFF08ST-X
12 pins					PCB version	1.5A	30V	30V	MB12FBAFF12ST-X
17 pins					PCB version	1.5A	30V	30V	MB12FBAFF17ST-X

Note: X refers to Chassis-side thread size

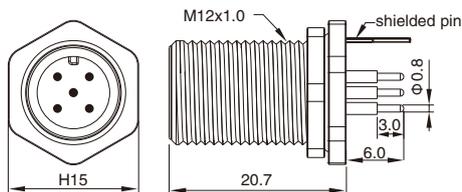
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS\*FF\*\*ST-0

\* refers to coding type  
\*\* refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBSAFF03ST-0 MB12MBSBFF03ST-0 MB12MBSFFF03ST-0
04 pins					PCB version	4A	250V	250V	MB12MBSAFF04ST-0 MB12MBSBFF04ST-0 MB12MBSFFF04ST-0 MB12MBSDF04ST-0
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFF05ST-0 MB12MBSBFF05ST-0 MB12MBSFFF05ST-0
06 pins					PCB version	2A	30V	30V	MB12MBSFFF06ST-0
08 pins					PCB version	2A	30V	30V	MB12MBSAFF08ST-0
12 pins					PCB version	1.5A	30V	30V	MB12MBSAFF12ST-0
17 pins					PCB version	1.5A	30V	30V	MB12MBSAFF17ST-0

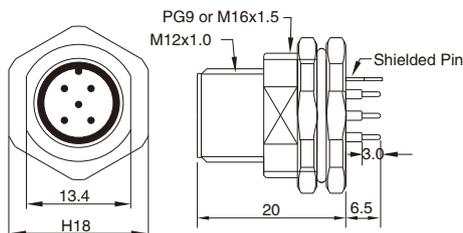
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS\*FF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12MBSAFF03ST-X MB12MBSBFF03ST-X MB12MBSBSCFF03ST-X
04 pins					PCB version	4A	250V	250V	MB12MBSAFF04ST-X MB12MBSBFF04ST-X MB12MBSBSCFF04ST-X MB12MBSBDF04ST-X
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFF05ST-X MB12MBSBFF05ST-X MB12MBSBSCFF05ST-X
06 pins					PCB version	2A	30V	30V	MB12MBSBSCFF06ST-X
08 pins					PCB version	2A	30V	30V	MB12MBSAFF08ST-X
12 pins					PCB version	1.5A	30V	30V	MB12MBSAFF12ST-X
17 pins					PCB version	1.5A	30V	30V	MB12MBSAFF17ST-X

Note: X refers to Chassis-side thread size

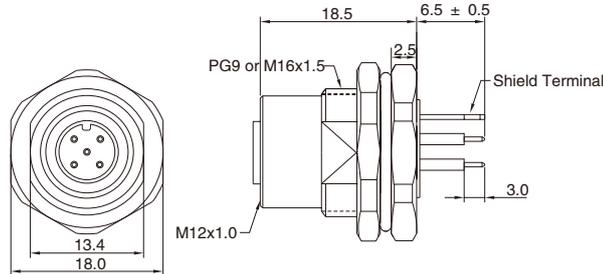
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS\*FF\*\*ST-X

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-20°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBSAFF03ST- <u>X</u> MB12FBSBFF03ST- <u>X</u> MB12FBSBFFF03ST- <u>X</u>
04 pins					PCB version	4A	250V	250V	MB12FBSAFF04ST- <u>X</u> MB12FBSBFF04ST- <u>X</u> MB12FBSBFFF04ST- <u>X</u> MB12FBSBFFF04ST- <u>X</u>
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFF05ST- <u>X</u> MB12FBSBFF05ST- <u>X</u> MB12FBSBFFF05ST- <u>X</u>
06 pins					PCB version	2A	30V	30V	MB12FBSBFFF06ST- <u>X</u>
08 pins					PCB version	2A	30V	30V	MB12FBSAFF08ST- <u>X</u>
12 pins					PCB version	1.5A	30V	30V	MB12FBSAFF12ST- <u>X</u>
17 pins					PCB version	1.5A	30V	30V	MB12FBSAFF17ST- <u>X</u>

Note: X refers to Chassis-side thread size

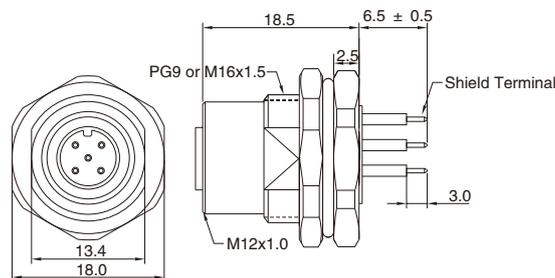
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, PCB Type, Front Fastened, with Shielded Terminal

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS\*FF\*\*ST-X-s

\* refers to coding type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size  
 s refers to shielded pin



### General information

Standard:	IEC 61076-2-101	Insulation resistance:	≥ 100MΩ
Ambient temperature:	-20°C ~ +90°C	Contact resistance :	≤ 5mΩ
Connector insert:	PA+GF	Shielding:	Available
Connector contacts:	Brass with gold plated	IP rating:	IP68 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut-out:	Refer to page 287
Seal / O-ring:	Epoxy resin / FKM	PCB layout:	Refer to page 286
		Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins					PCB version	4A	250V	250V	MB12FBSAFF03ST-X-s MB12FBSBFF03ST-X-s MB12FBSBFF03ST-X-s
04 pins					PCB version	4A	250V	250V	MB12FBSAFF04ST-X-s MB12FBSBFF04ST-X-s MB12FBSBFF04ST-X-s MB12FBSBFF04ST-X-s
05 pins					PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFF05ST-X-s MB12FBSBFF05ST-X-s MB12FBSBFF05ST-X-s
06 pins					PCB version	2A	30V	30V	MB12FBSBFF06ST-X-s
08 pins					PCB version	2A	30V	30V	MB12FBSAFF08ST-X-s
12 pins					PCB version	1.5A	30V	30V	MB12FBSAFF12ST-X-s
17 pins					PCB version	1.5A	30V	30V	MB12FBSAFF17ST-X-s

Note: X refers to Chassis-side thread size

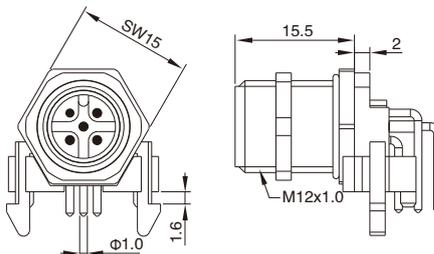
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Angled, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MB\*FF\*\*RA-0 (Unshielding)  
MB12MBS\*FF\*\*RA-0 (Shielding)

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable / Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Part No.
	A	B	D			A/C	D/C	
04 pins				PCB version	4A	250V	250V	MB12MBAFF04RA-0 MB12MBSAFF04RA-0 MB12MBBFF04RA-0 MB12MBSBFF04RA-0 MB12MBDFF04RA-0 MB12MBSDF04RA-0
05 pins				PCB version	4A	60V	60V	MB12MBAFF05RA-0 MB12MBSAFF05RA-0 MB12MBBFF05RA-0 MB12MBSBFF05RA-0
08 pins				PCB version	2A	30V	30V	MB12MBAFF08RA-0 MB12MBSAFF08RA-0

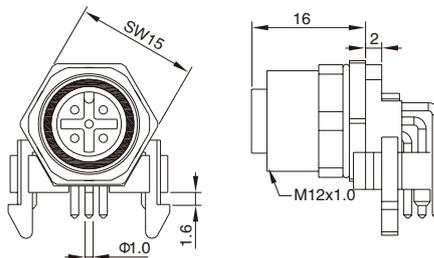
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Angled, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FB\*FF\*\*RA-0(Unshielding)  
MB12FBS\*FF\*\*RA-0 (Shielding)

\* refers to coding type  
\*\* refers to pins number



### General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable / Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

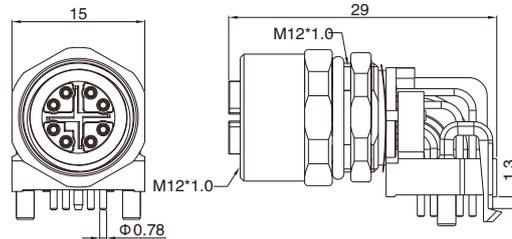
Contacts	Available Coding			Contacts termination	Rated current	Voltage		Part No.
	A	B	D			A/C	D/C	
04 pins				PCB version	4A	250V	250V	MB12FBAFF04RA-0 MB12FBSAFF04RA-0 MB12FBBFF04RA-0 MB12FBSBFF04RA-0 MB12FBDFF04RA-0 MB12FBSDBFF04RA-0
05 pins				PCB version	4A	60V	60V	MB12FBAFF05RA-0 MB12FBSAFF05RA-0 MB12FBBFF05RA-0 MB12FBSBFF05RA-0
08 pins				PCB version	2A	30V	30V	MB12FBAFF08RA-0 MB12FBSAFF08RA-0

### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Angled PCB Type, Rear fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSXFF08RA-2



### General information

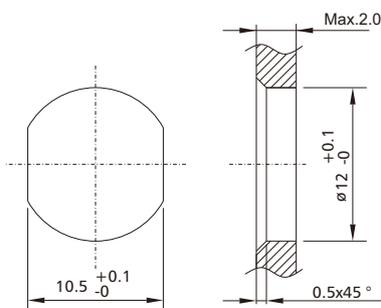
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass / Stainless steel
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

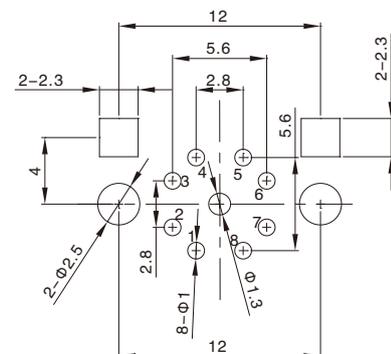
### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
08 pins 	PCB version	0.5A	50V	60V	MB12FBSXFF08RA-2

### Panel Cut-out Dimensions



### PCB Layout

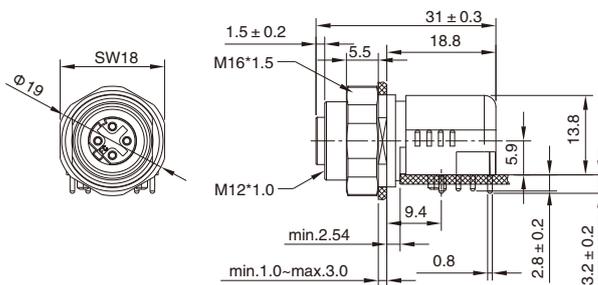


### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Angled, PCB Type, Shielded Shell, Without Fixed Holes

- Connector series: M12
- Gender: Female
- Coding: D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSDF04RA-20



### General information

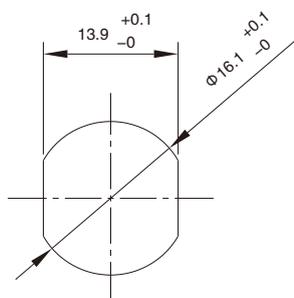
Standard:	IEC 61076-2-101
Ambient temperature:	-40°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Shield Shell:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Available
IP rating:	IP20 in locked condition
Transmission characteristics:	Cat. 5,D level: up to 100 MHz
Mating endurance:	>500 cycles

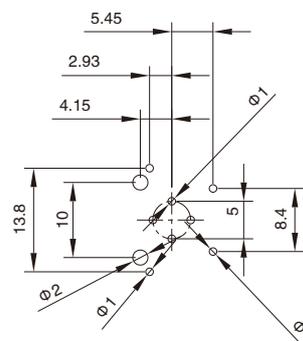
### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
04 pins	PCB version	4A	50V	50V	MB12FBSDF04RA-20

### Panel Cut-out Dimensions



### PCB Layout



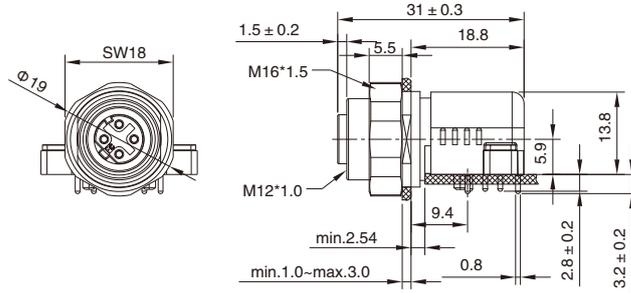
### Remarks

Recommended PCB thickness: 1.6mm

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Angled, PCB Type, Shielded Shell, Whith Fixed Holes

- Connector series: M12
- Gender: Female
- Coding: D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSDF04RA-21



### General information

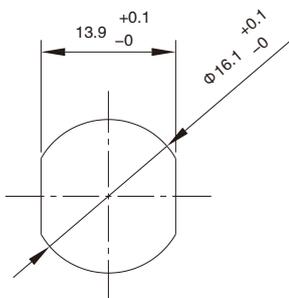
Standard:	IEC 61076-2-101
Ambient temperature:	-40°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Shield Shell:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Available
IP rating:	IP20 in locked condition
Transmission characteristics:	Cat. 5,D level: up to 100 MHz
Mating endurance:	>500 cycles

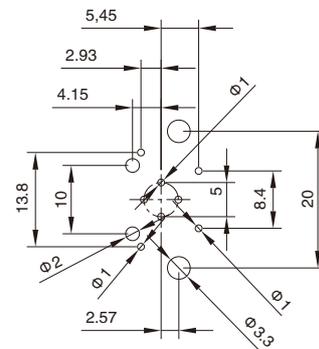
### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
04 pins	PCB version	4A	50V	50V	MB12FBSDF04RA-21

### Panel Cut-out Dimensions



### PCB Layout



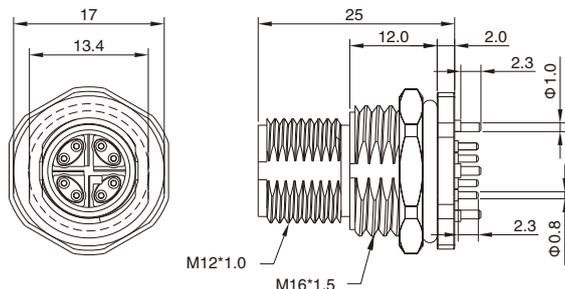
### Remarks

Recommended PCB thickness: 1.6mm

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, PCB Type, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBSXFF08ST-2



### General information

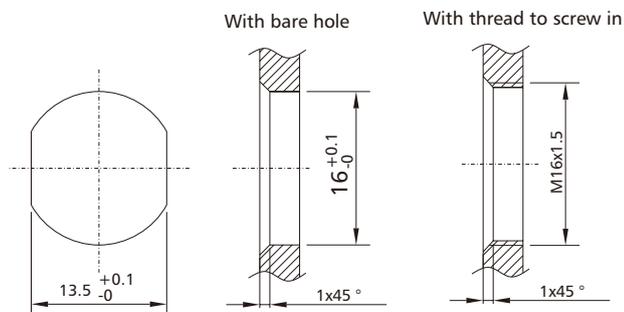
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O-ring:	FKM/Epoxy resin

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

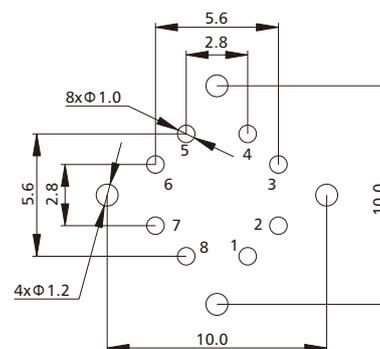
### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
08 pins 	PCB version	0.5A	50V	60V	MB12MBSXFF08ST-2

### Panel Cut-out Dimensions



### PCB Layout



### Remarks

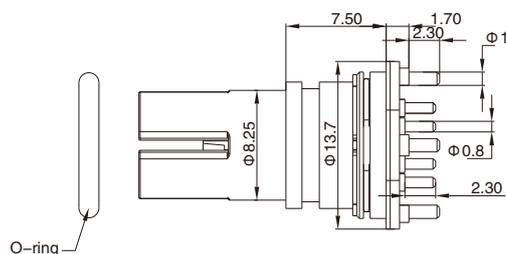
- Please refer to Page 96 for products' part number encoding rule.





## M12 Female Panel Mount, PCB Type, Without Screw, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Snap-in
- Mounting type: Front fastened
- Part No.: MB12FBSXFI08ST



### General information



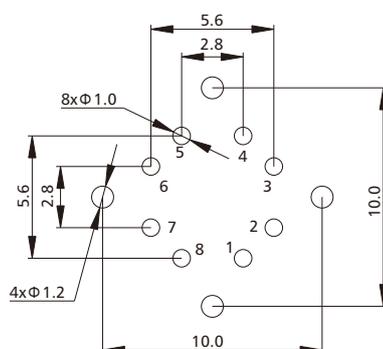
Standard:	IEC 61076-2-109
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
08 pins	PCB version	0.5A	50V	60V	MB12FBSXFI08ST

### PCB Layout



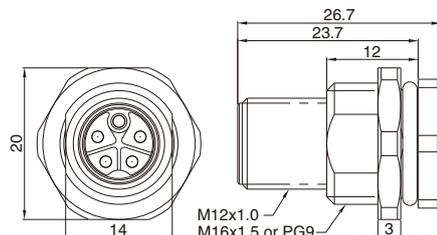
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, Solder & Crimp, Front fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12M\*KKF05ST-X

\* refer to terminal type  
X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C (fixed installation) -20°C ~ +80°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12M <u>S</u> KKF05ST- <u>X</u> MB12M <u>C</u> KKF05ST- <u>X</u>

Note: X refers to Chassis-side thread size, S: Solder C: Crimp

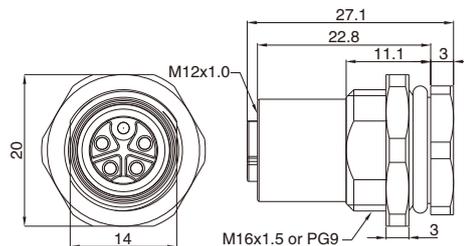
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, Solder & Crimp, Front fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12F\*KFF05ST-X

\* refer to terminal type  
X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12FSKFF05ST-X MB12FCKFF05ST-X

Note: X refers to Chassis-side thread size, S: Solder C: Crimp

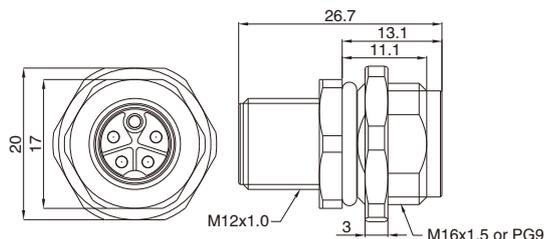
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, Solder & Crimp, Rear fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12M\*KRF05ST-X

\* refer to terminal type  
X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C (fixed installation) -20°C ~ +80°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12M <del>S</del> KRF05ST- <del>X</del> MB12M <del>C</del> KRF05ST- <del>X</del>

Note: ~~X~~ refers to Chassis-side thread size, ~~S~~: Solder ~~C~~: Crimp

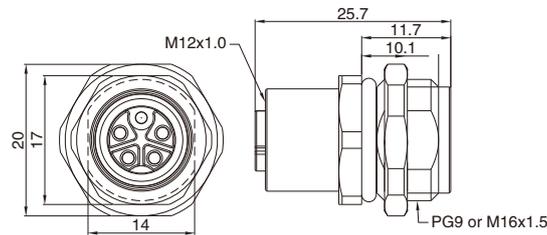
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, Solder & Crimp, Rear fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12F\*KRF05ST-X

\* refer to terminal type  
X refers to Chasis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12FSKRF05ST- <u>X</u> MB12FC <u>K</u> RKF05ST- <u>X</u>

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

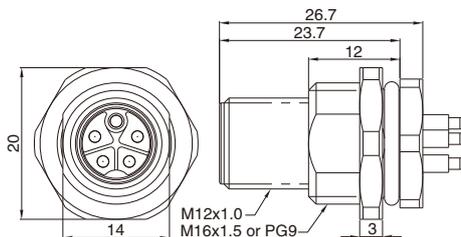
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, PCB Type, Front fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBKFF05ST-X

X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12MBKFF05ST-X

Note: X refers to Chasis-side thread size

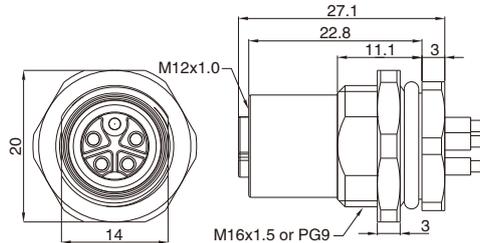
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, PCB Type, Front fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBKFF05ST-X

X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12FBKFF05ST-X

Note: X refers to Chasis-side thread size

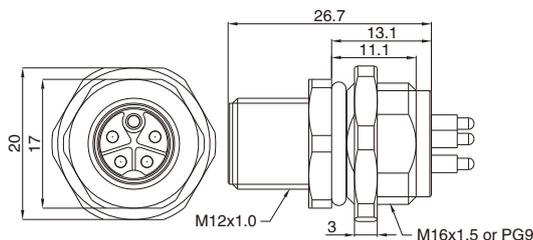
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, PCB Type, Rear fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MBKRF05ST-X

X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12MBKRF05ST-X

Note: X refers to Chasis-side thread size

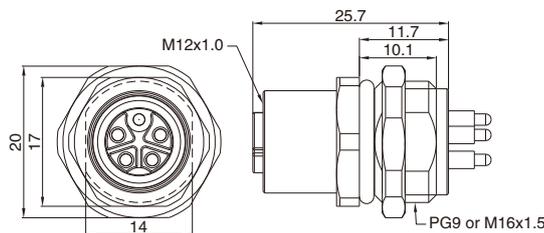
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, PCB Type, Rear fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FBKRF05ST-X

X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12FBKRF05ST-X

Note: X refers to Chasis-side thread size

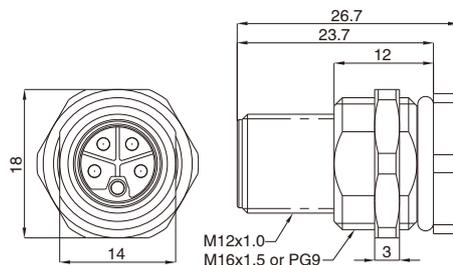
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, Solder & Crimp, Front fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12M\*LFF\*\*ST-X

\* refer to terminal type  
 \*\* refers to pins number  
 X refers to Chasis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12M <u>S</u> LFF05ST- <u>X</u> MB12M <u>C</u> LFF05ST- <u>X</u>

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

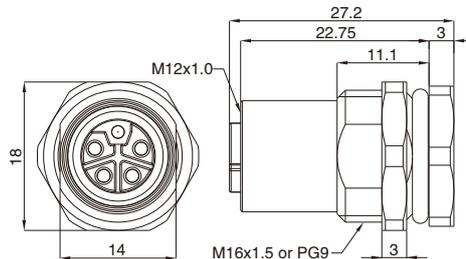
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, Solder & Crimp, Front fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12F\*LFF\*\*ST-XX

\* refer to terminal type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12FSLFF05ST- <u>X</u> MB12FCLFF05ST- <u>X</u>

Note: X refers to Chassis-side thread size, S: Solder C: Crimp

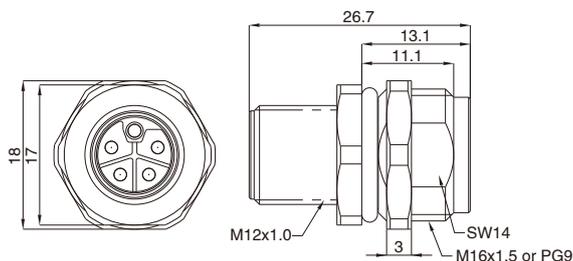
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, Solder & Crimp, Rear fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12M\*LRF\*\*ST-X

\* refer to terminal type  
 \*\* refers to pins number  
 X refers to Chasis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12MSLRF05ST- <u>X</u> MB12MCLRF05ST- <u>X</u>

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

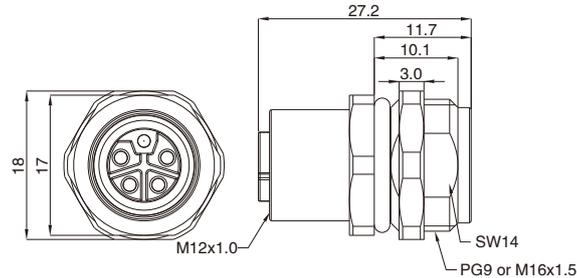
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, Solder & Crimp, Rear fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12F\*LRF\*\*ST-XX

\* refer to terminal type  
 \*\* refers to pins number  
 X refers to Chassis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12FSLRF05ST- <u>X</u> MB12FCLRF05ST- <u>X</u>

Note: X refers to Chassis-side thread size, S: Solder C: Crimp

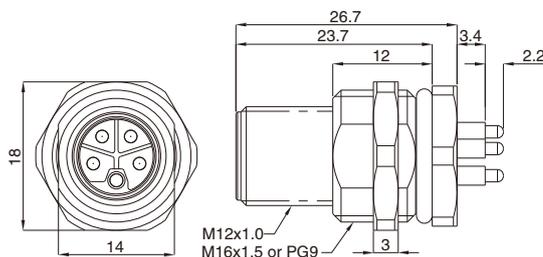
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, PCB Type, Front fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBLFF05ST-X

X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	NC	63V	NC	NC	MB12MBLFF05ST-X

Note: X refers to Chasis-side thread size

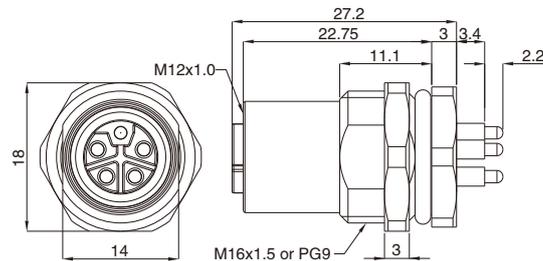
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, PCB Type, Front fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBLFF05ST-X

X refers to Chasis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	NC	63V	NC	NC	MB12FBLFF05ST-X

Note: X refers to Chasis-side thread size

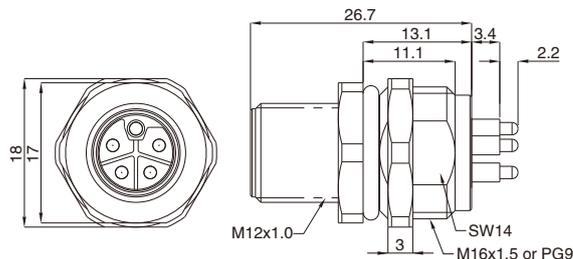
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel, PCB Type, Rear fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MBLRF05ST-X

X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C (fixed installation) -20°C ~ +80°C (flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	NC	63V	NC	NC	MB12MBLRF05ST-X

Note: X refers to Chasis-side thread size

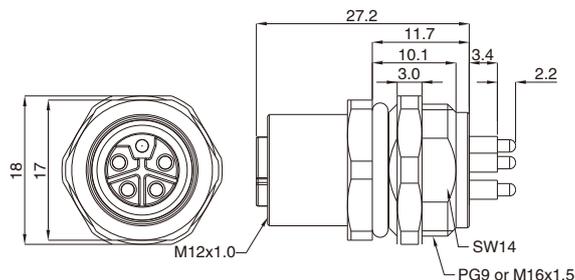
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, PCB Type, Rear fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FBLRF05ST-X

X refers to Chasis-side thread size



### General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
			A/C	D/C	AWG	mm <sup>2</sup>	
05 pins  (4+PE)	PCB	16A	NC	63V	NC	NC	MB12FBLRF05ST-X

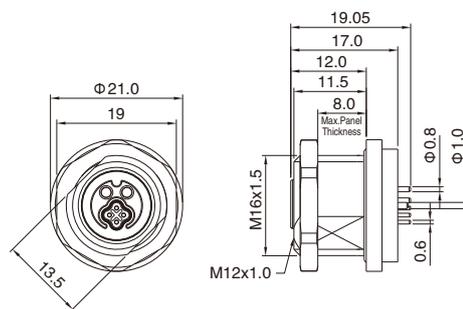
Note: X refers to Chasis-side thread size

### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, PCB, Front fastened, Y1-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y1
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY106ST-2



### General information

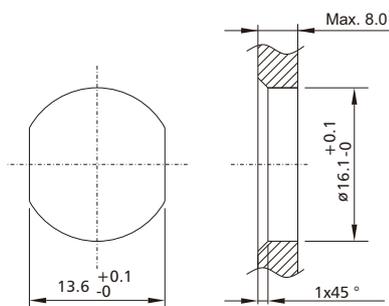
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ +80°C (fixed installation) -20°C ~ +80°C (flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100\text{M}\Omega$
Contact resistance:	$\leq 10\text{m}\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
06 pins 	PCB	12A	50V	50V	MB12FBSY106ST-2

### Panel Cut-out Dimensions

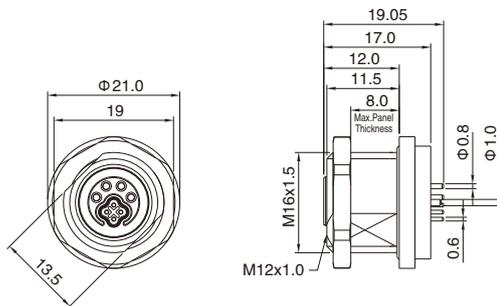


### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section  $\text{mm}^2$ .
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, PCB, Front fastened, Y2-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y2
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY208ST-2



### General information



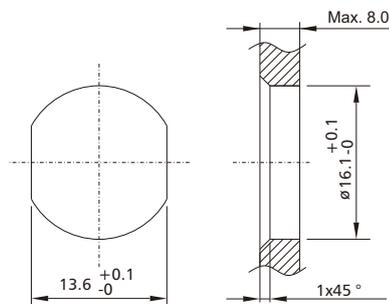
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ +80°C (fixed installation) -20°C ~ +80°C (flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	$\geq 100\text{M}\Omega$
Contact resistance:	$\leq 10\text{m}\Omega$
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB	6A	50V	50V	MB12FBSY208ST-2

### Panel Cut-out Dimensions



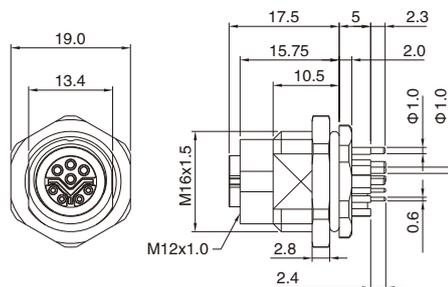
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section  $\text{mm}^2$ .
- Please refer to Page 96 for products' part number encoding rule.



## M12 Female Panel, PCB, Front fastened, Y4-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y4
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY408ST-2



### General information

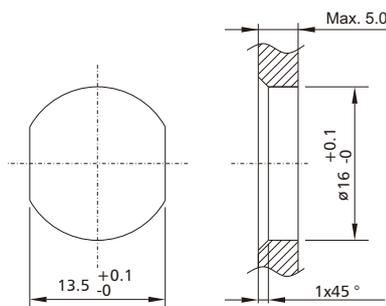
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Part No.
			A/C	D/C	
08 pins 	PCB	6A	50V	50V	MB12FBSY408ST-2

### Panel Cut-out Dimensions

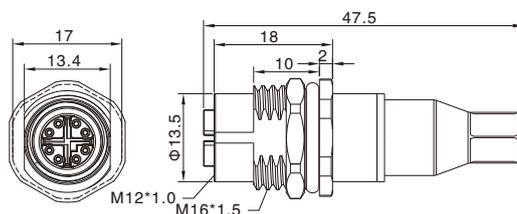


### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel, Crimp, Front fastened, X-coding, Shielded

- Connector series: M12
  - Gender: Female
  - Coding: X
  - Locking type: Fix screw
  - Mounting type: Front fastened
  - Part No.: MB12FCSXFF08ST-X
- X refers to Chasis-side thread size



### General information



Standard:	IEC 61076-2-109
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

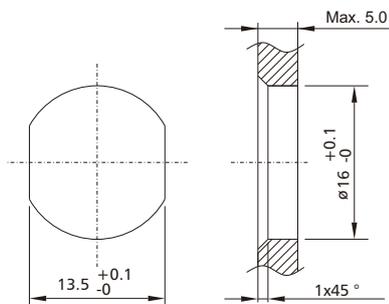
Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT6A / CAT7
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Rated current	Voltage		Wire gauge / size		Cable spec	Part No.
		A/C	D/C	AWG	mm <sup>2</sup>		
08 pins	0.5A	50V	60V	27~24AWG	0.14~0.25	CAT6A/CAT7	MB12FCSXFF08ST-X

Note: X refers to Chasis-side thread size

### Panel Cut-out Dimensions



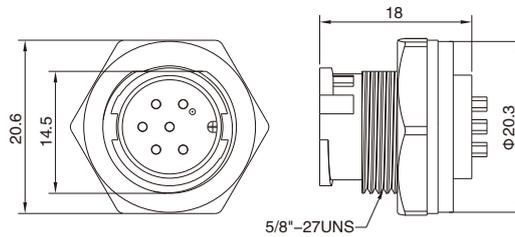
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, Solder, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Male
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12MSAFQ\*\*ST

\*\* refers to pins number



### General information



Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.	
			A/C	D/C	AWG	mm <sup>2</sup>			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSAFQ06ST

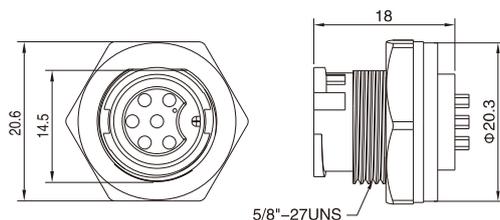
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, Solder, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12FSAFQ\*\*ST

\*\* refers to pins number



### General information



Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.	
			A/C	D/C	AWG	mm <sup>2</sup>			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12FSAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12FSAFQ06ST

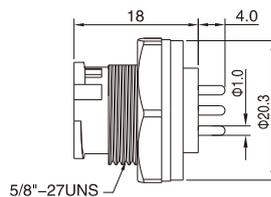
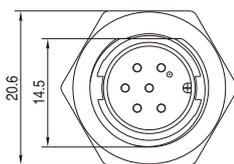
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Panel Mount, PCB Type, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Male
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12MBAFQ\*\*ST

\*\* refers to pins number



### General information



Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	250V	250V	MB12MBAFQ04ST
06 pins		PCB version	4A	60V	60V	MB12MBAFQ06ST

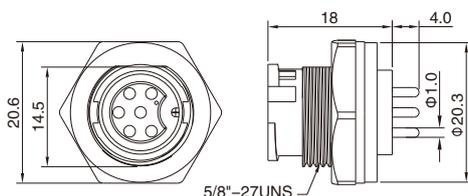
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Female Panel Mount, PCB Type, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12FBAFQ\*\*ST

\*\* refers to pins number



### General information



Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	250V	250V	MB12FBAFQ04ST
06 pins		PCB version	4A	60V	60V	MB12FBAFQ06ST

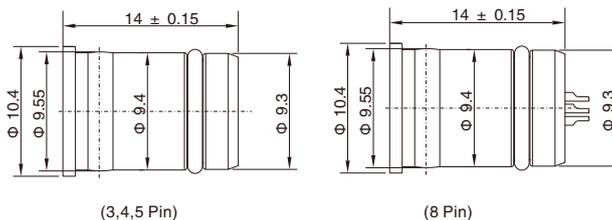
### Remarks

- Please refer to Page 96 for products' part number encoding rule.

## M12 Male Plastic Housing with O-ring, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: M12H-MS\*XX

\* refers to coding type  
XX refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	D			A/C	D/C	AWG	mm <sup>2</sup>	
03 pins				Solder version	4A	250V	250V	22AWG	0.34	M12H-MSA03 M12H-MSB03
04 pins				Solder version	4A	250V	250V	22AWG	0.34	M12H-MSA04 M12H-MSB04 M12H-MSD04
05 pins				Solder version	4A	60V	60V	22AWG	0.34	M12H-MSA05 M12H-MSB05
08 pins				Solder version	2A	30V	30V	24AWG	0.25	M12H-MSA08

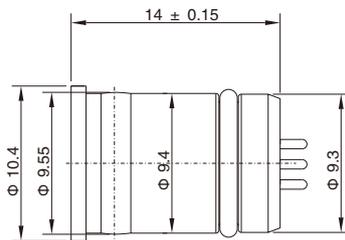
### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.

## M12 Male Plastic Housing with O-ring, PCB Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: M12H-MB\*XX

\* refers to coding type  
XX refers to pins number



### General information



Standard:	IEC 61076-2-101
Ambient temperature:	-25°C ~ +90°C
Connector insert:	PA
Connector contacts:	Brass with gold plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

### Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Part No.
	A	B	D			A/C	D/C	
03 pins				PCB version	4A	250V	250V	M12H-MBA03 M12H-MBB03
04 pins				PCB version	4A	250V	250V	M12H-MBA04 M12H-MBB04 M12H-MBD04
05 pins				PCB version	4A	60V	60V	M12H-MBA05 M12H-MBB05
08 pins				PCB version	2A	30V	30V	M12H-MBA08

### Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.