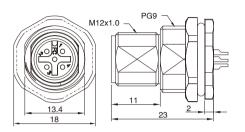




M12 Male Panel Mount, Die-cast Screw, Solder, Front fastened

- 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

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
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	e Coding		Contacts	Rated	Volt	age	Wire gauge / size		Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	rait NO.
03 pins	4 8 8 3	48 83	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFHD03ST-3 MB12MSBFHD03ST-3 MB12MSCFHD03ST-3
04 pins	48 83	4 93	PE⊕ 1⊕ ⊕3 ⊕2 (3+PE)	4	Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFHD04ST-3 MB12MSBFHD04ST-3 MB12MSCFHD04ST-3 MB12MSDFHD04ST-3
05 pins	48 @3 @5 18 @2	4	PE @ @2 (4+PE)		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			PE (5 + PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFHD06ST-3
08 pins	(60 5 04 70 0 03 10 8 02				Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFHD08ST-3

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

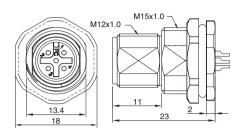
• Locking type: Plastic fix screw

• Mounting type: Front fastened

• Part No.: MB12MS*FP**ST-1

* refers to coding type

** refers to pins number









■ General information

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
PA+GF
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	Rated	Volt	age	Wire gau	uge / size	Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	rait NO.
03 pins	4® ®3	4 3 3	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFP03ST-1 MB12MSBFP03ST-1 MB12MSCFP03ST-1
04 pins	4 ® ® 3 1 ® 2	4 93	PE⊕ 1⊕ ⊕3 ⊕2 (3+PE)	4	Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFP04ST-1 MB12MSBFP04ST-1 MB12MSCFP04ST-1 MB12MSDFP04ST-1
05 pins	(4) (8) (95) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	4	PE @ @2 (4+PE)		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			PE (5 + PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFP06ST-1
08 pins	(6@ § @4 7@ @3 1@ 8 @2				Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFP08ST-1

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

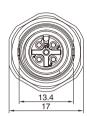


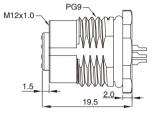




M12 Female Panel Mount, Die-cast Screw, Solder, Front fastened

- 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

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
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				Rated	Volt	Voltage Wire gauge / size		ıge / size	Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part NO.
03 pins	30 04	30 04 01	0PE 30 02 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFHD03ST-3 MB12FSBFHD03ST-3 MB12FSCFHD03ST-3
04 pins	30 04	30 04 20 01	(3+PE)	30 0 ⁴	Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFHD04ST-3 MB12FSBFHD04ST-3 MB12FSCFHD04ST-3 MB12FSDFHD04ST-3
05 pins	30 04 05 20 01	30 04 05 20 01	20 04 10 05 (4+PE)		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			PE 20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFHD06ST-3
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFHD08ST-3

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

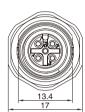


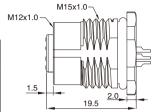




M12 Female Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- 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







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■ General information

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
PA+GF
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	Rated	Volt	age	Wire gauge / size		Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	rait NO.
03 pins	30 04 01	30 04 01	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFP03ST-1 MB12FSBFP03ST-1 MB12FSCFP03ST-1
04 pins	30 04 20 01	30 04 20 01	0PE 30 01 20 (3+PE)	30 0 ⁴	Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFP04ST-1 MB12FSBFP04ST-1 MB12FSCFP04ST-1 MB12FSDFP04ST-1
05 pins	30 04 05 20 01	30 04 05 20 01	20 04 10 05 (4+PE)		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			PE 20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFP06ST-1
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFP08ST-1

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

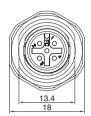
• Locking type: Fix screw

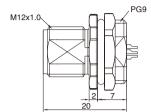
• Mounting type: Rear fastened

• Part No.: MB12MS*RHD**ST-3

* refers to coding type

** refers to pins number











■ General information

0-
℃ ~ +90℃
ss with gold plated
c alloy with nickel plated
oxy 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	Rated	Volt	age	Wire gau	uge / size	Part No.	
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	rait NO.
03 pins	4 () ()	48 83	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARHD03ST-3 MB12MSBRHD03ST-3 MB12MSCRHD03ST-3
04 pins	48 83	48 @3	PE⊕ 1⊕ ⊕3 ⊕2 (3+PE)	10 0	Solder version	4A	250V	250V	22AWG	0.34	MB12MSARHD04ST-3 MB12MSBRHD04ST-3 MB12MSCRHD04ST-3 MB12MSDRHD04ST-3
05 pins	48 @3 @5 18 @2	4	PE @ @2 (4+PE)		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			PE (5 + PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRHD06ST-3
08 pins	(60 5 04 70 0 03 10 8 02				Solder version	2A	30V	30V	24AWG	0.25	MB12MSARHD08ST-3

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

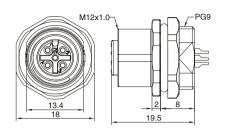
• Locking type: Fix screw

• 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℃ ~ +90℃
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	Rated	Volt	age	Wire gau	ıge / size	Part No.	
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	rait NO.
03 pins	30 O4	30 04	OPE 30 02 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARHD03ST-3 MB12FSBRHD03ST-3 MB12FSCRHD03ST-3
04 pins	30 04 20 01	30 04 20 01	OPE 30 01 20 (3+PE)	30 0 ⁴	Solder version	4A	250V	250V	22AWG	0.34	MB12FSARHD04ST-3 MB12FSBRHD04ST-3 MB12FSCRHD04ST-3 MB12FSDRHD04ST-3
05 pins	30 04 05 20 01	30 04 05 20 01	20 0 04 10 05 (4+PE)		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			(5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRHD06ST-3
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSARHD08ST-3

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

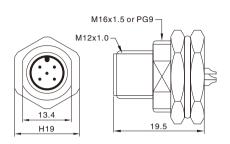






M12 Male Panel Mount, Solder, Front fastened

- 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 Chasis-side thread size









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

C		Available	e Coding		Contacts	Rated	Voltage		Wire gau	Part No.	
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	40 03	4 ® 3	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFF03ST- <u>X</u> MB12MSBFF03ST- <u>X</u> MB12MSCFF03ST- <u>X</u>
04 pins	4® ®3 1® ®2	4 3 3	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	10 0	Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFF04ST- <u>X</u> MB12MSBFF04ST- <u>X</u> MB12MSCFF04ST- <u>X</u> MB12MSDFF04ST- <u>X</u>
05 pins	(4) (8) (8) (8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	4 @ 3 @ 5 1 @ 2 2	PE (4⊕ ⊕2) (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFF05ST- <u>X</u> MB12MSBFF05ST- <u>X</u> MB12MSCFF05ST- <u>X</u>
06 pins			PE (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFF06ST- <u>X</u>
08 pins	(6@ 5 @4 7@ @ @3 1@ 8 @2				Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFF08ST- <u>X</u>
12 pins	5 (% @ @ 65 (8 @ @ 964) (98) 2@ 1103 (1810 @ 2)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFF12ST- <u>X</u>
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB17MSAFF17ST- <u>X</u>

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.







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

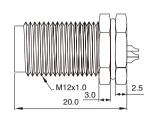
• Connector series: M12

• Gender: Male • Coding: A

• Locking type: Plastic fix screw • Mounting type: Front fastened

• Part No.: MB12MSAFP**ST-0











■ General information

d

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

Con	Contacts		Rated	Volt	tage	Wire gau	uge / size	Wire	Part No.
Con	lacis	termination	current	A/C	D/C	AWG	mm²	insulation	rait No.
04 pins	(4® @3) 1® @2	Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSAFP04ST-0
05 pins	4	Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSAFP05ST-0
08 pins	6. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	Solder version	2A	30V	30V	24AWG	0.25	PVC wire or customized	MB12MSAFP08ST-0

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



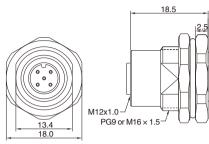
^{**} refers to pins number





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 Chasis-side thread size









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

C		Available	e Coding		Contacts	Rated	Voltage Wire gauge / size		ıge / size	David Nila	
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	30 O4	30 O4	30 O2 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFF03ST- <u>X</u> MB12FSBFF03ST- <u>X</u> MB12FSCFF03ST- <u>X</u>
04 pins	30 O4 20 O1	30 04 20 01	(3+PE)	3° 0° 0° 1	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	30 Q4 Q5 20 Q1	30 04 05 20 01	20 04 10 05 (4+PE)		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			PE 20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFF06ST- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFF08ST- <u>X</u>
12 pins	50°07 40°008 30°0209 20°001				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFF12ST- <u>X</u>
17 pins	(0,0,0,0) (0,0,0,0) (0,0,0,0) (0,0,0,0)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFF17ST- <u>X</u>

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

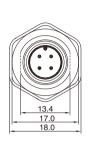


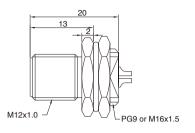




M12 Male Panel Mount, Solder, Rear fastened

- 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 Chasis-side thread size











■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

Ctt-		Available Coding			Contacts	Rated	Volt	tage	Wire gauge / size		Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	40 03	4 💩 3	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF03ST- <u>X</u> MB12MSBRF03ST- <u>X</u> MB12MSCRF03ST- <u>X</u>
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	4	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	(4) (8) (8) (8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	4 ⊗ ⊗ 3 ⊗ 5 1 ⊗ ⊗ 2	PE (4⊕ ⊕2) (4+PE)		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			PE (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRF06ST- <u>X</u>
08 pins	(6@ 5 @4 7@ @ @3 1@ 8 @2				Solder version	2A	30V	30V	24AWG	0.25	MB12MSARF08ST- <u>X</u>
12 pins	7 6 9 95 8 9 9 94 198 2 1 1 93 1 1 1 0 2				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: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.







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

• Connector series: M12

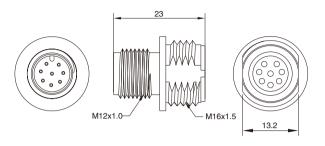
• Gender: Male

• Coding: A

• Locking type: Plastic fix screw

• Mounting type: Rear fastened

• Part No.: MB12MSARP**ST-2









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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

Con	Contacts		Rated	Volt	age	Wire gau	ıge / size	Wire	Part No.
Con			current	A/C	D/C	AWG	mm ²	insulation	rait IVO.
04 pins	(4) (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSARP04ST-2
05 pins	4	Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSARP05ST-2
08 pins	(60 0 04) (70 0 03) (10 8 02)	Solder version	2A	30V	30V	24AWG	0.25	PVC wire or customized	MB12MSARP08ST-2

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



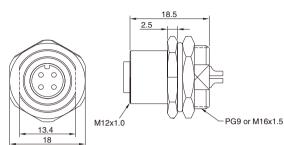
^{**} refers to pins number





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 Chasis-side thread size









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

Ctt-		Available Coding			Contacts Rated		Voltage		Wire gauge / size		Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	30 04	30 04 01	0PE 30 02 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF03ST- <u>X</u> MB12FSBRF03ST-X MB12FSCRF03ST- <u>X</u>
04 pins	30 Q4 20 Q1	30 04 20 01	(3+PE)	3° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF04ST- <u>X</u> MB12FSBRF04ST- <u>X</u> MB12FSCRF04ST- <u>X</u> MB12FSDRF04ST- <u>X</u>
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01	20 04 10 05 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARF05ST- <u>X</u> MB12FSBRF05ST- <u>X</u> MB12FSCRF05ST- <u>X</u>
06 pins			20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRF06ST- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSARF08ST- <u>X</u>
12 pins	(50°07) (40°008) (30°0709) 20°009)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF12ST- <u>X</u>
17 pins	(0,000) (0,000) (0,000)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF17ST- <u>X</u>

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

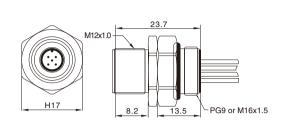






M12 Male Panel Mount, Solder, Rear fastened, Adjustable Nut

- 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 Chasis-side thread size









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

C		Available	e Coding		Contacts	Rated	Voltage		Wire gauge / size		David Nila
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	4 ® 3	4 ® ® 3	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF03ST- <u>X(</u> adj) MB12MSBRF03ST- <u>X(</u> adj) MB12MSCRF03ST- <u>X(</u> adj)
04 pins	4® ®3 1® ®2	4 3 3	(3+PE)	4	Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF04ST- <u>X</u> (adj) MB12MSBRF04ST- <u>X</u> (adj) MB12MSCRF04ST- <u>X(</u> adj) MB12MSDRF04ST- <u>X(</u> adj)
05 pins	(4) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	4(⊕ ⊕3 ⊕ 5 1(⊕ ⊕2)	PE (4 * • • • 1) (4 + PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARF05ST- <u>X(</u> adj) MB12MSBRF05ST- <u>X(</u> adj) MB12MSCRF05ST- <u>X(</u> adj)
06 pins			PE (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRF06ST- <u>X(</u> adj)
08 pins	66				Solder version	2A	30V	30V	24AWG	0.25	MB12MSARF08ST- <u>X(</u> adj)
12 pins	5 8				Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF12ST- <u>X</u> (adj)
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF17ST- <u>X(</u> adj)

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

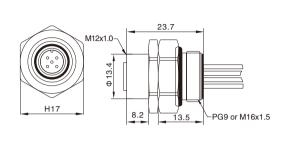






M12 Female Panel Mount, Solder, Rear fastened, Adjustable Nut

- 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 Chasis-side thread size









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

Ctt-		Available	e Coding		Contacts Rated		Voltage		Wire gau	ıge / size	Dowt No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	30 04 01	30 O4 O1	0PE 30 02 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF03ST- <u>X(</u> adj) MB12FSBRF03ST- <u>X(</u> adj) MB12FSCRF03ST- <u>X(</u> adj)
04 pins	30 O4 20 O1	30 Q4 20 01	(3+PE)	30 0 ⁴ 20 01	Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF04ST- <u>X(</u> adj) MB12FSBRF04ST- <u>X(</u> adj) MB12FSCRF04ST- <u>X(</u> adj) MB12FSDRF04ST- <u>X(</u> adj)
05 pins	30 04 05 20 01	05 20 01	20 04 10 05 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARF05ST- <u>X</u> (adj) MB12FSBRF05ST- <u>X(</u> adj) MB12FSCRF05ST- <u>X(</u> adj)
06 pins			20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRF06ST- <u>X(</u> adj)
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSARF08ST- <u>X</u> (adj)
12 pins	(50°07) (40°008) (30°10°209) (20°10°01)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF12ST- <u>X</u> (adj)
17 pins	(0,000) (0,000) (0,000) (0,000)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF17ST- <u>X(</u> adj)

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

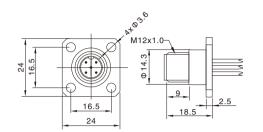
• Locking type: Fix screw

• Mounting type: Flange

• Part No.: MB12MS*FLF**ST

* refers to coding type

** refers to pins number









■ General information

IEC 61076-2-101
-20℃ ~ +80℃
TPU
Brass with gold plated
Brass with nickel plated
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	e Coding		Contacts	Rated	Voltage		Wire gauge / size		Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part NO.
03 pins	4.8 .83	4 3 3	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFLF03ST MB12MSBFLF03ST MB12MSCFLF03ST
04 pins	4® ®3 1® ®2	48 93	PE⊕ 1⊕ ⊕3 ⊕2 (3+PE)	10 0	Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFLF04ST MB12MSBFLF04ST MB12MSCFLF04ST MB12MSDFLF04ST
05 pins	(4) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	4 @ 3 @ 5 1 @ 2 2	PE (4⊕ ⊕2 5⊕ ⊕1 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFLF05ST MB12MSBFLF05ST MB12MSCFLF05ST
06 pins			PE (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFLF06ST
08 pins	(60 0 04 (70 0 03) (10 8 02)				Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFLF08ST
12 pins	5 (% @ @ 65 (8 @ @ @ 4) (98) 2 @ 11 @ 3 (10 0 2)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFLF12ST
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFLF17ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

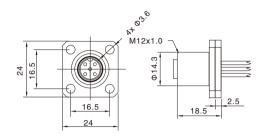
• Locking type: Fix screw

• 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℃ ~ +80℃
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	e Coding		Contacts	Rated	Volt	age	Wire gau	uge / size	Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	Part NO.
03 pins	30 O4	30 O4 O1	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFLF03ST MB12FSBFLF03ST MB12FSCFLF03ST
04 pins	30 O4 20 O1	30 04 20 01	(3+PE)	3° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFLF04ST MB12FSBFLF04ST MB12FSCFLF04ST MB12FSDFLF04ST
05 pins	30 04 05 20 01	30 Q4 Q5 20 Q1	20 04 10 05 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFLF05ST MB12FSBFLF05ST MB12FSCFLF05ST
06 pins			20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFLF06ST
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFLF08ST
12 pins	(50 ° 07 08) (40 ° 0 ° 08) (301 01209) (201 001)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFLF12ST
17 pins	(0,000) (0,000) (0,000)				Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFLF17ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

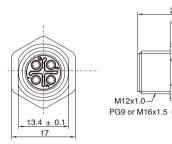






M12 Male Panel Mount, Crimp, Front fastened, S-coding

- 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 Chasis-side thread size XXX refers to cable specification









■ General information

-20℃ ~ +80℃
PA
Brass with gold plated
Brass with nickel plated
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

Cont	tacts	Contacts	Rated	Rated			Wire	Part No.
Com	iacis	termination	current	voltage AWG mm²		insulation	rait NO.	
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 Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

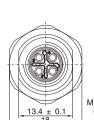
• Coding: S

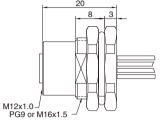
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB12FCSFF**ST-XXXX

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











■ General information

Ambient temperature:	-20℃ ~ +80℃
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	Rated		Wire gauge / size		Wire	Part No.
Con	termination	termination	current	voltage	AWG	mm²	insulation	rait No.
04 pins	(3+PE)	Crimp version	12A(40°C)	630V	16AWG	1.5	PVC wire or customized	MB12FCSFF04ST- <u>X</u> 150

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



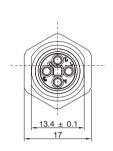


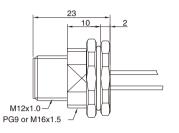


M12 Male Panel Mount, Crimp, Front fastened, T-coding

- 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 Chasis-side thread size XXX refers to cable specification











■ General information

Ambient temperature:	-20℃ ~ +80℃
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

Cont	tacts	Contacts	Rated	Rated	Wire gauge / size		Wire	Part No.
Com	tacts	termination	current	voltage	AWG	mm²	insulation	rait No.
04 pins		Crimp version	12A(40°C)	60V	16AWG	1.5	PVC wire or customized	MB12MCTFF04ST- <u>X</u> 150

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

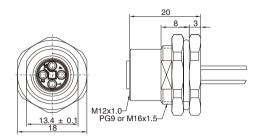
• Coding: T

• 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℃ ~ +80℃
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	Contacts Rated		Rated Wire gauge /	uge / size Wire		Part No.
Con	Contacts		current	voltage	AWG	mm ² insulation		rait No.
04 pins		Crimp version	12A(40°C)	60V	16AWG	1.5	PVC wire or customized	MB12FCTFF04ST- <u>X</u> 150

Note: \underline{X} refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



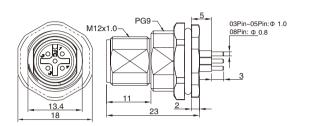






M12 Male Panel Mount, Die-cast Screw, PCB Type, Front fastened

- 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

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
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	e Coding		Contacts	Rated	Voltage		Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	40 03	4 3	(2+PE)		PCB version	4A	250V	250V	MB12MBAFHD03ST-3 MB12MBBFHD03ST-3 MB12MBCFHD03ST-3
04 pins	40 03	4® ®3	(3+PE)	4	PCB version	4A	250V	250V	MB12MBAFHD04ST-3 MB12MBBFHD04ST-3 MB12MBCFHD04ST-3 MB12MBDFHD04ST-3
05 pins	40 03 05 10 02	4 ® 93 ® 5 1 ® 92	PE @ @2 S @ 1 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBAFHD05ST-3 MB12MBBFHD05ST-3 MB12MBCFHD05ST-3
06 pins			PE (9 (40 0 02) (5+PE)		PCB version	2A	30V	30V	MB12MBCFHD06ST-3
08 pins	(6@ 5 @4 7@ @ @3 1@ 8 @2				PCB version	2A	30V	30V	MB12MBAFHD08ST-3

■ Remarks

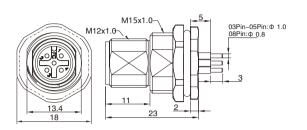






M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- 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

-25°C ~ +90°C PA
B 24 11 1 4 1
Brass with gold plated
PA+GF
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	e Coding		Contacts	Rated	Volt	tage	Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	4 () ()	4 3 3	(2+PE)		PCB version	4A	250V	250V	MB12MBAFP03ST-1 MB12MBBFP03ST-1 MB12MBCFP03ST-1
04 pins	4 @ @3	48 83	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	10 0	PCB version	4A	250V	250V	MB12MBAFP04ST-1 MB12MBBFP04ST-1 MB12MBCFP04ST-1 MB12MBDFP04ST-1
05 pins	48 @3 @5 18 @2	4⊗ ⊗3 ⊗ 5 1⊗ ⊗2	PE @ @2 S @ 1 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBAFP05ST-1 MB12MBBFP05ST-1 MB12MBCFP05ST-1
06 pins			PE (5+PE)		PCB version	2A	30V	30V	MB12MBCFP06ST-1
08 pins	(60 § 04) (70 § 03) (8 8 02)				PCB version	2A	30V	30V	MB12MBAFP08ST-1

■ Remarks



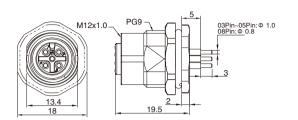






M12 Female Panel Mount, Die-cast Screw, PCB Type, Front fastened

- 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℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM
<u> </u>	1 . 7

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	e Coding		Contacts	Rated	ted Voltage		Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	30 04 01	30 04	оре 30 о2 (2+РЕ)		PCB version	4A	250V	250V	MB12FBAFHD03ST-3 MB12FBBFHD03ST-3 MB12FBCFHD03ST-3
04 pins	30 04 20 01	30 04 20 01	(3+PE)	30 0 ⁴	PCB version	4A	250V	250V	MB12FBAFHD04ST-3 MB12FBBFHD04ST-3 MB12FBCFHD04ST-3 MB12FBDFHD04ST-3
05 pins	30 04 05 20 01	30 04 05 20 01	20 04 10 05 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBAFHD05ST-3 MB12FBBFHD05ST-3 MB12FBCFHD05ST-3
06 pins			PE 20 0 04 10 05 (5+PE)		PCB version	2A	30V	30V	MB12FBCFHD06ST-3
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBAFHD08ST-3

■ Remarks

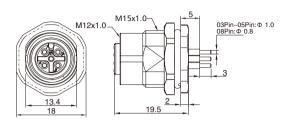






M12 Female Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- 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℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

≥100MΩ
≤5mΩ
Unavailable
IP68 in locked condition
Refer to page 287
Refer to page 286
>500 cycles

■ Electrical data & Mechanical data

Contacts		Available	e Coding		Contacts	Rated	Voltage		Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	rait NO.
03 pins	30 04 01	30 O4 01	0pE 30 02 (2+PE)		PCB version	4A	250V	250V	MB12FBAFP03ST-1 MB12FBBFP03ST-1 MB12FBCFP03ST-1
04 pins	30 04 20 01	30 04 20 01	(3+PE)	30 0 ⁴	PCB version	4A	250V	250V	MB12FBAFP04ST-1 MB12FBBFP04ST-1 MB12FBCFP04ST-1 MB12FBDFP04ST-1
05 pins	30 04 05 20 01	30 04 05 20 01	20 0 04 10 05 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBAFP05ST-1 MB12FBBFP05ST-1 MB12FBCFP05ST-1
06 pins			(5+PE)		PCB version	2A	30V	30V	MB12FBCFP06ST-1
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBAFP08ST-1

■ Remarks



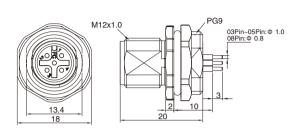






M12 Male Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- 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

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
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	le Coding Contacts Rated Voltage		tage	Part No.			
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	40 03	4 3	(2+PE)		PCB version	4A	250V	250V	MB12MBARHD03ST-3 MB12MBBRHD03ST-3 MB12MBCRHD03ST-3
04 pins	40 03	4® ®3	(3+PE)	4	PCB version	4A	250V	250V	MB12MBARHD04ST-3 MB12MBBRHD04ST-3 MB12MBCRHD04ST-3 MB12MBDRHD04ST-3
05 pins	40 03 05 10 02	4 ® 93 ® 5 1 ® 92	PE @ @2 S @ 1 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBARHD05ST-3 MB12MBBRHD05ST-3 MB12MBCRHD05ST-3
06 pins			PE 40 9 02 50 0 1 (5 + PE)		PCB version	2A	30V	30V	MB12MBCRHD06ST-3
08 pins	(6@ 5 @4 7@ @ @3 1@ 8 @2				PCB version	2A	30V	30V	MB12MBARHD08ST-3

■ Remarks

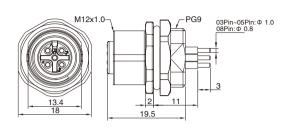






M12 Female Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- 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℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

≥100MΩ
≤5mΩ
Unavailable
IP68 in locked condition
Refer to page 287
Refer to page 286
>500 cycles

■ Electrical data & Mechanical data

Contacts		Available Coding		Available Coding Contacts Rated		Volt	age	Part No.	
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	30 04 01	30 04 01	0PE 30 02 (2+PE)		PCB version	4A	250V	250V	MB12FBARHD03ST-3 MB12FBBRHD03ST-3 MB12FBCRHD03ST-3
04 pins	30 04 20 01	30 04 20 01	(3+PE)	3° °° °° °° °° °° °° °° °° °° °° °° °° °	PCB version	4A	250V	250V	MB12FBARHD04ST-3 MB12FBBRHD04ST-3 MB12FBCRHD04ST-3 MB12FBDRHD04ST-3
05 pins	30 04 05 20 01	30 04 05 20 01	20 0 04 10 05 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBARHD05ST-3 MB12FBBRHD05ST-3 MB12FBCRHD05ST-3
06 pins			(5+PE)		PCB version	2A	30V	30V	MB12FBCRHD06ST-3
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBARHD08ST-3

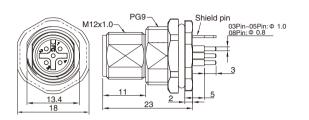
■ Remarks





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





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■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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	e Coding		Contacts	cts Rated	Voltage		Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	4 () ()	4 3 3	(2+PE)		PCB version	4A	250V	250V	MB12MBSAFHD03ST-3 MB12MBSBFHD03ST-3 MB12MBSCFHD03ST-3
04 pins	4 @ @3	48 83	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	10 0	PCB version	4A	250V	250V	MB12MBSAFHD04ST-3 MB12MBSBFHD04ST-3 MB12MBSCFHD04ST-3 MB12MBSDFHD04ST-3
05 pins	48 @3 @5 18 @2	4⊗ ⊗3 ⊗ 5 1⊗ ⊗2	PE @ @2 S @ 1 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFHD05ST-3 MB12MBSBFHD05ST-3 MB12MBSCFHD05ST-3
06 pins			PE (5+PE)		PCB version	2A	30V	30V	MB12MBSCFHD06ST-3
08 pins	(6@ § @4 7@ @ @3 1@ 8 @2				PCB version	2A	30V	30V	MB12MBSAFHD08ST-3

■ Remarks

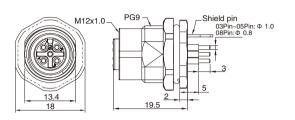






M12 Female Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- 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





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■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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	e Coding		Contacts	Rated	Voltage		Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	rait NO.
03 pins	30 O4	30 O4	(2+PE)		PCB version	4A	250V	250V	MB12FBSAFHD03ST-3 MB12FBSBFHD03ST-3 MB12FBSCFHD03ST-3
04 pins	30 O4 20 O1	30 04 20 01	(3+PE)	30 0 ⁴	PCB version	4A	250V	250V	MB12FBSAFHD04ST-3 MB12FBSBFHD04ST-3 MB12FBSCFHD04ST-3 MB12FBSDFHD04ST-3
05 pins	30 04 05 20 01	30 04 05 20 01	(4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFHD05ST-3 MB12FBSBFHD05ST-3 MB12FBSCFHD05ST-3
06 pins			(5+PE)		PCB version	2A	30V	30V	MB12FBSCFHD06ST-3
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBSAFHD08ST-3

■ Remarks

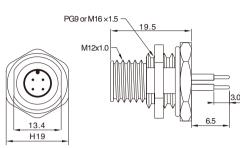






M12 Male Panel Mount, PCB Type, Front fastened

- 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 Chasis-side thread size









■ General information

IEC 61076-2-101
-20℃ ~ +90℃
TPU
Brass with gold plated
Brass with nickel plated
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

6		Available	e Coding		Contacts	Rated	Volt	age	D. (N
Contacts	А	В	С	D	termination	current	A/C	D/C	Part No.
03 pins	40 03	4 • • 3	PE® (2+PE)		PCB version	4A	250V	250V	MB12MBAFF03ST- <u>X</u> MB12MBBFF03ST- <u>X</u> MB12MBCFF03ST- <u>X</u>
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	4 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCB version	4A	250V	250V	MB12MBAFF04ST- <u>X</u> MB12MBBFF04ST- <u>X</u> MB12MBCFF04ST- <u>X</u> MB12MBDFF04ST- <u>X</u>
05 pins	(4@ @3 @5 1@ @2	4(⊕ ⊕3 ⊕ 5 1(⊕ ⊕2)	PE 4⊕ ⊕2 5⊕ ⊕1 (4+PE)		PCB version	4A 2A (C-code)	60V	60V	MB12MBAFF05ST- <u>X</u> MB12MBBFF05ST- <u>X</u> MB12MBCFF05ST- <u>X</u>
06 pins			(5+PE)		PCB version	2A	30V	30V	MB12MBCFF06ST- <u>X</u>
08 pins	(6@ § @4) (7@ @ @3) 1@ 8 @2				PCB version	2A	30V	30V	MB12MBAFF08ST- <u>X</u>
12 pins	7 6 9 9 5 8 9 9 94 99 2 1 1 93 1 1 1 93				PCB version	1.5A	30V	30V	MB12MBAFF12ST- <u>X</u>
17 pins					PCB version	1.5A	30V	30V	MB12MBAFF17ST- <u>X</u>

Note: \underline{X} refers to Chasis-side thread size

[•] Please refer to Page 96 for products' part number encoding rule.







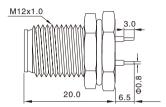
M12 Male Panel Mount, PCB Type, Front fastened

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

■ General information

- * refers to coding type
- ** refers to pins number













Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU

Brass with gold plated Connector contacts: Connector nut/screw: Brass with nickel plated Seal / O-ring: Epoxy resin / FKM

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

■ Electrical data & Mechanical data

6		Available	e Coding		Contacts	Rated	Volt	age	D. (N
Contacts	А	В	С	D	termination	current	A/C	D/C	Part No.
03 pins	40 03	4 • • 3	PE® (2+PE)		PCB version	4A	250V	250V	MB12MBAFF03ST-0 MB12MBBFF03ST-0 MB12MBCFF03ST-0
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	4 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCB version	4A	250V	250V	MB12MBAFF04ST-0 MB12MBBFF04ST-0 MB12MBCFF04ST-0 MB12MBDFF04ST-0
05 pins	(4@ @3 @5 1@ @2	4(⊕ ⊕3 ⊕ 5 1(⊕ ⊕2)	PE 4⊕ ⊕2 5⊕ ⊕1 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBAFF05ST-0 MB12MBBFF05ST-0 MB12MBCFF05ST-0
06 pins			(5+PE)		PCB version	2A	30V	30V	MB12MBCFF06ST-0
08 pins	(6@ 5 @4 7@ @ @3 1@ 8 @2				PCB version	2A	30V	30V	MB12MBAFF08ST-0
12 pins	7 8 9 95 8 9 9 94 198 2 1 1 93 1 1 1 0 2				PCB version	1.5A	30V	30V	MB12MBAFF12ST-0
17 pins					PCB version	1.5A	30V	30V	MB12MBAFF17ST-0

■ Remarks







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

• Connector series: M12

• Gender: Male

• Coding: A

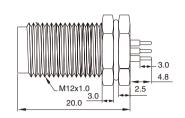
• Locking type: Plastic fix screw

• Mounting type: Front fastened

• Part No.: MB12MBAFP**ST-0

** refers to pins number







■ General information





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Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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

Con	tacts	Contacts	Rated	Volt	tage	Part No.
Con	iacis	termination	current	A/C	D/C	Tart No.
04 pins	4 • • 3 1 • • • 2	PCB version	4A	250V	250V	MB12MBAFP04ST-0
05 pins	(4) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	PCB version	4A	60V	60V	MB12MBAFP05ST-0
08 pins	(6⊕ ⊕ 4 (7⊕ ⊕ ⊕ 2) (1⊕ 8 ⊕ 2)	PCB version	2A	30V	30V	MB12MBAFP08ST-0

■ Remarks

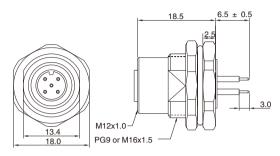






M12 Female Panel Mount, PCB Type, Front fastened

- 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 Chasis-side thread size









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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	e Coding		Contacts	Rated	Volt	tage	Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	30 04 01	30 04 01	0PE 30 02 (2+PE)		PCB version	4A	250V	250V	MB12FBAFF03ST- <u>X</u> MB12FBBFF03ST- <u>X</u> MB12FBCFF03ST- <u>X</u>
04 pins	30 O4 20 O1	30 04 20 01	0PE 30 01 20 (3+PE)	30 0 ⁴	PCB version	4A	250V	250V	MB12FBAFF04ST- <u>X</u> MB12FBBFF04ST- <u>X</u> MB12FBCFF04ST- <u>X</u> MB12FBDFF04ST- <u>X</u>
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01	20 04 10 05 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBAFF05ST- <u>X</u> MB12FBBFF05ST- <u>X</u> MB12FBCFF05ST- <u>X</u>
06 pins			20 0 04 10 05 (5+PE)		PCB version	2A	30V	30V	MB12FBCFF06ST- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBAFF08ST- <u>X</u>
12 pins	(50 ° 07 08 301 01209 201001)				PCB version	1.5A	30V	30V	MB12FBAFF12ST- <u>X</u>
17 pins	00000 00000 00000				PCB version	1.5A	30V	30V	MB12FBAFF17ST- <u>X</u>

Note: \underline{X} refers to Chasis-side thread size

■ Remarks



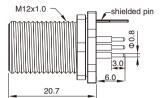




M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- 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℃ ~ +90℃
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 Rated		Volt	tage	Part No.	
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	40 03	4 8 83	(2+PE)		PCB version	4A	250V	250V	MB12MBSAFF03ST-0 MB12MBSBFF03ST-0 MB12MBSCFF03ST-0
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	PE⊛ 1⊛ ⊛3 ⊛2 (3+PE)	4 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCB version	4A	250V	250V	MB12MBSAFF04ST-0 MB12MBSBFF04ST-0 MB12MBSCFF04ST-0 MB12MBSDFF04ST-0
05 pins	(4) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	(4⊛ ⊛3 ⊛ 5 1⊛ ⊛2	PE 4 ⊕ ⊕2 5 ⊕ ⊕1 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFF05ST-0 MB12MBSBFF05ST-0 MB12MBSCFF05ST-0
06 pins			(5+PE)		PCB version	2A	30V	30V	MB12MBSCFF06ST-0
08 pins	(60 5 04) (70 0 03) (10 8 02)				PCB version	2A	30V	30V	MB12MBSAFF08ST-0
12 pins	7 9 9 95 8 9 9 94 9912 1193 1910 92				PCB version	1.5A	30V	30V	MB12MBSAFF12ST-0
17 pins					PCB version	1.5A	30V	30V	MB12MBSAFF17ST-0

■ Remarks

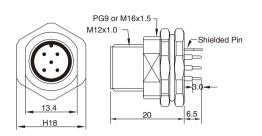






M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- 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 Chasis-side thread size





■ General information



IEC 61076-2-101
-25℃ ~ +90℃
TPU
Brass with gold plated
Brass with nickel plated
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	e Coding		Contacts	Rated	Volt	tage	Part No.
Contacts	А	В	С	D	termination	current	A/C	D/C	Part NO.
03 pins	40 03	4 93	PE® 2® ®3 (2+PE)		PCB version	4A	250V	250V	MB12MBSAFF03ST- <u>X</u> MB12MBSBFF03ST- <u>X</u> MB12MBSCFF03ST- <u>X</u>
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	PE⊗ (3+PE)	4	PCB version	4A	250V	250V	MB12MBSAFF04ST- <u>X</u> MB12MBSBFF04ST- <u>X</u> MB12MBSCFF04ST- <u>X</u> MB12MBSDFF04ST- <u>X</u>
05 pins	48 ®3 ®5 18 ®2	4 @ 3 @ 5 1 @ 2 2	PE (4⊕ ⊕2) (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFF05ST- <u>X</u> MB12MBSBFF05ST- <u>X</u> MB12MBSCFF05ST- <u>X</u>
06 pins			PE (5+PE)		PCB version	2A	30V	30V	MB12MBSCFF06ST- <u>X</u>
08 pins	(6@ 5 @4 17@ @ @3 1@ 8 @2				PCB version	2A	30V	30V	MB12MBSAFF08ST- <u>X</u>
12 pins	7@ @ @5 8@ @ @4 9@ 12@ 11@ 2				PCB version	1.5A	30V	30V	MB12MBSAFF12ST- <u>X</u>
17 pins					PCB version	1.5A	30V	30V	MB12MBSAFF17ST- <u>X</u>

Note: X refers to Chasis-side thread size

■ Remarks

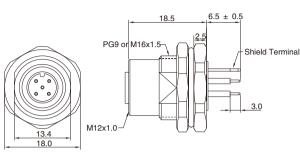






M12 Female Panel Mount, PCB Type, Front fastened, Shielded

- 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 Chasis-side thread size











■ General information

Standard: Ambient temperature:	IEC 61076-2-101 -20℃ ~ +90℃
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

C	Available Coding		Contacts	Rated	Volt	tage	De of No		
Contacts	А	В	С	D	termination	current	A/C	D/C	Part No.
03 pins	30 04	30 04 01	30 02 (2+PE)		PCB version	4A	250V	250V	MB12FBSAFF03ST- <u>X</u> MB12FBSBFF03ST- <u>X</u> MB12FBSCFF03ST- <u>X</u>
04 pins	30 Q4 20 Q1	30 04 20 01	(3+PE)	30 0 ⁴	PCB version	4A	250V	250V	MB12FBSAFF04ST- <u>X</u> MB12FBSBFF04ST- <u>X</u> MB12FBSCFF04ST- <u>X</u> MB12FBSDFF04ST- <u>X</u>
05 pins	30 04 05 20 01	30 04 05 20 01	20 04 10 05 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFF05ST- <u>X</u> MB12FBSBFF05ST- <u>X</u> MB12FBSCFF05ST- <u>X</u>
06 pins			20 0 04 10 05 (5+PE)		PCB version	2A	30V	30V	MB12FBSCFF06ST- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBSAFF08ST- <u>X</u>
12 pins	(50°07) (40°008) (30°01208) (20°001)				PCB version	1.5A	30V	30V	MB12FBSAFF12ST- <u>X</u>
17 pins	00000				PCB version	1.5A	30V	30V	MB12FBSAFF17ST- <u>X</u>

Note: \underline{X} refers to Chasis-side thread size

■ Remarks



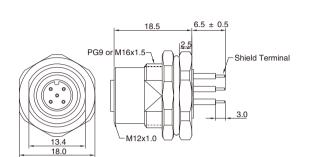




M12 Female Panel Mount, PCB Type, Front Fastened, with Shielded Terminal

- 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 Chasis-side thread size s refers to shielded pin









■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
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

C	Available Coding			Contacts	Rated	Volt	tage	Deat Ne	
Contacts	А	В	С	D	termination	current	A/C	D/C	Part No.
03 pins	30 04 01	30 04 01	0PE 30 02 (2+PE)		PCB version	4A	250V	250V	MB12FBSAFF03ST- <u>X</u> -s MB12FBSBFF03ST- <u>X</u> -s MB12FBSCFF03ST- <u>X</u> -s
04 pins	30 O4 20 O1	30 04 20 01	(3+PE)	30 0 ⁴	PCB version	4A	250V	250V	MB12FBSAFF04ST- <u>X</u> -s MB12FBSBFF04ST- <u>X</u> -s MB12FBSCFF04ST- <u>X</u> -s MB12FBSDFF04ST- <u>X</u> -s
05 pins	30 04 05 20 01	05 20 01	20 04 10 05 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFF05ST- <u>X</u> -s MB12FBSBFF05ST- <u>X</u> -s MB12FBSCFF05ST- <u>X</u> -s
06 pins			20 0 04 10 05 (5+PE)		PCB version	2A	30V	30V	MB12FBSCFF06ST- <u>X</u> -s
08 pins	40 5 06 30 0 07 20 8 01				PCB version	2A	30V	30V	MB12FBSAFF08ST- <u>X</u> -s
12 pins	5.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				PCB version	1.5A	30V	30V	MB12FBSAFF12ST- <u>X</u> -s
17 pins	(0,000) (0,000) (0,000) (0,000)				PCB version	1.5A	30V	30V	MB12FBSAFF17ST- <u>X</u> -s

Note: \underline{X} refers to Chasis-side thread size

■ Remarks







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

• Connector series: M12

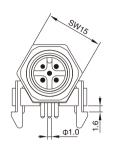
• Gender: Male • Coding: A,B,D

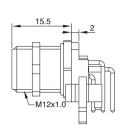
• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MB12MB*FF**RA-0 (Unshielding) MB12MBS*FF**RA-0 (Shielding)

* refers to coding type











■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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

Contosta	Available Coding		Contacts Rated		Voltage		Part No.		
Contacts	Α	В	D	termination	termination current A/C		D/C	Part NO.	
04 pins	40 03	4® ®3	4	PCB version	4A	250V	250V	MB12MBAFF04RA-0 MB12MBSAFF04RA-0 MB12MBBFF04RA-0 MB12MBSBFF04RA-0 MB12MBDFF04RA-0 MB12MBSDFF04RA-0	
05 pins	4	(4⊕ ⊕3 ⊕ 5 1⊕ ⊕2		PCB version	4A	60V	60V	MB12MBAFF05RA-0 MB12MBSAFF05RA-0 MB12MBBFF05RA-0 MB12MBSBFF05RA-0	
08 pins	60 5 04 70 0 03 10 8 02			PCB version	2A	30V	30V	MB12MBAFF08RA-0 MB12MBSAFF08RA-0	

■ Remarks



^{**} refers to pins number





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

• Connector series: M12

• Gender: Female

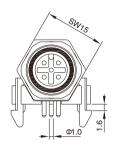
• Coding: A,B,D

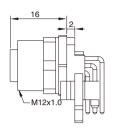
• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MB12FB*FF**RA-0(Unshielding) MB12FBS*FF**RA-0 (Shielding)

* refers to coding type











■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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

Comtosta	Ava	Available Coding		Contacts	Rated	Voltage		Part No.
Contacts	Α	В	D	termination	current	A/C	D/C	Part NO.
04 pins	30 04 20 01	30 04 20 01	30 0 ⁴	PCB version	4A	250V	250V	MB12FBAFF04RA-0 MB12FBSAFF04RA-0 MB12FBSFF04RA-0 MB12FBSBFF04RA-0 MB12FBSDFF04RA-0 MB12FBSDFF04RA-0
05 pins	30 04 05 20 01	30 04 05 20 01		PCB version	4A	60V	60V	MB12FBAFF05RA-0 MB12FBSAFF05RA-0 MB12FBBFF05RA-0 MB12FBSBFF05RA-0
08 pins	40 5 06 30 0 07 20 8 01			PCB version	2A	30V	30V	MB12FBAFF08RA-0 MB12FBSAFF08RA-0

Remarks



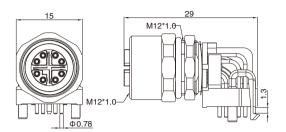
^{**} refers to pins number





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

Seal / O-ring:	FKM
Connector nut/screw:	Brass / Stainless steel
Connector contacts:	Brass with gold plated
Connector insert:	PA / TPU
Ambient temperature:	-25℃ ~ +90℃
Standard:	IEC 61076-2-109
a	1=0 010=0 0 100

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

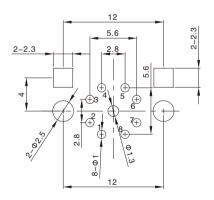
■ Electrical data & Mechanical data

Contacts		Contacts Contacts Rated termination current		Volt	Part No.	
				A/C	D/C	Tart NO.
08 pins	6 6	PCB version	0.5A	50V	60V	MB12FBSXFF08RA-2

■ Panel Cut-out Dimensions

Max.2.0 0.5x45°

■ PCB Layout



Remarks







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

• Connector series: M12

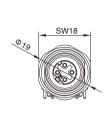
• Gender: Female

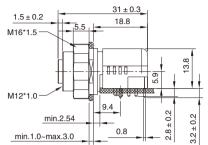
• Coding: D

• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MB12FBSDFF04RA-20











■ General information

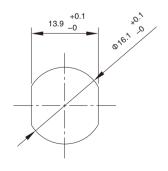
Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Shield Shell:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

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

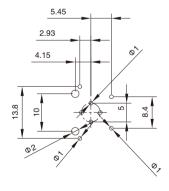
■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Volt	Part No.	
Con	lacis	termination	current	A/C	D/C	Part NO.
04 pins	30 O4 20 O1	PCB version	4A	50V	50V	MB12FBSDFF04RA-20

■ Panel Cut-out Dimensions



■ PCB Layout



Recommended PCB thickness:1.6mm

Remarks

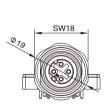


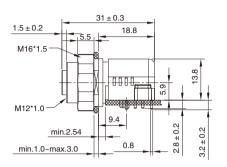




M12 Female Panel Mount, Angled, PCB Type, Shielded Shell, Whith Fixed Holes

- Connector series: M12
- Gender: Female
- Coding: D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSDFF04RA-21











■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +90℃
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

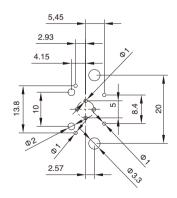
■ Electrical data & Mechanical data

Con	Contacts Contacts		Rated	Voltage		Part No.	
Con	tacts	termination			D/C	raitino.	
04 pins	330 04 20 01	PCB version	4A	50V	50V	MB12FBSDFF04RA-21	

■ Panel Cut-out Dimensions

13.9

■ PCB Layout



Recommended PCB thickness:1.6mm

Remarks







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

• Connector series: M12

• Gender: Male

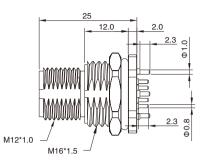
• Coding: X

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB12MBSXFF08ST-2











■ General information

IEC 61076-2-109
-25℃~ + 90℃
PA
Brass with gold plated
Brass/Zinc with nickel plated
FKM/Epoxy resin

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

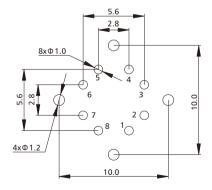
■ Electrical data & Mechanical data

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

■ Panel Cut-out Dimensions

With bare hole With thread to screw in 13.5 +0.1 1x45

■ PCB Layout



Remarks





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

• Connector series: M12

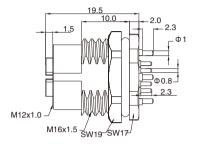
• Gender: Female

• Coding: X

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB12FBSXFF08ST-2









■ General information

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

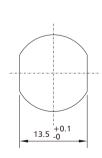
Insulation resistance:	≥100MΩ
Contact resistance :	≤10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

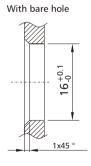
■ Electrical data & Mechanical data

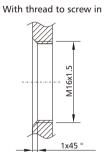
Con	tacts	Contacts	Rated	Volt	age	Part No.
Contacts		termination	current	A/C	D/C	rait NO.
08 pins		PCB version	0.5A	50V	60V	MB12FBSXFF08ST-2

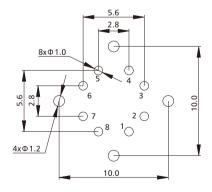
■ Panel Cut-out Dimensions

■ PCB Layout









Remarks







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

• Connector series: M12

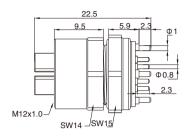
• Gender: Female

• Coding: X

• Locking type: Fix screw

• Mounting type: Rear fastened

• Part No.: MB12FBSXFF08ST-0





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■ General information

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

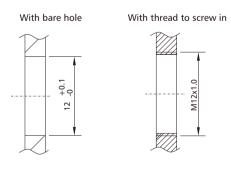
Insulation resistance:	≥100MΩ
Contact resistance :	≤10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

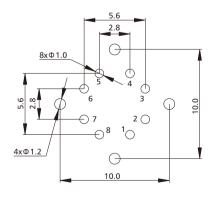
■ Electrical data & Mechanical data

Con	tacts	Contacts termination	Rated current	Volt A/C	age D/C	Part No.
08 pins	6 6	PCB version	0.5A	50V	60V	MB12FBSXFF08ST-0

■ Panel Cut-out Dimensions

■ PCB Layout





Remarks







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

• Connector series: M12

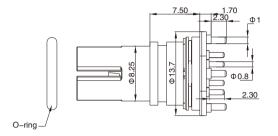
• Gender: Female

• Coding: X

• Locking type: Snap-in

• Mounting type: Front fastened

• Part No.: MB12FBSXFI08ST









■ General information

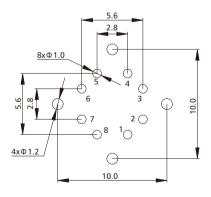
Seal / O-ring:	FKM
Connector screw/nut:	Brass/Zinc with nickel plated
Connector contacts:	Brass with gold plated
Connector insert:	PA
Ambient temperature:	-25℃~ + 90℃
Standard:	IEC 61076-2-109

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

■ Electrical data & Mechanical data

Contacts		Contacts Rated		Volt	Part No.	
Con	tacts	termination	termination current		D/C	raitivo.
08 pins	6 6	PCB version	0.5A	50V	60V	MB12FBSXFI08ST

■ PCB Layout



Remarks







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

• Connector series: M12

• Gender: Male

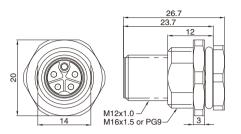
• Coding: K

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB12M*KFF05ST-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	Rated	ted Voltage		Wire gauge / size		Part No.	
Con	llacis	termination	current	A/C	D/C	AWG	mm²	Part NO.
05 pins	(4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12M <u>S</u> KFF05ST- <u>X</u> MB12M <u>C</u> KFF05ST- <u>X</u>

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

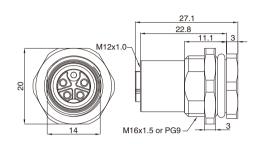






M12 Female Panel, Solder & Crimp, Front fastened, K-coding

- 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 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		Contacts Rated		Voltage		uge / size	Part No.		
Com	lacis	termination	current	current	A/C	D/C	AWG	mm²	rait NO.
05 pins	(4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12F <u>S</u> KFF05ST- <u>X</u> MB12F <u>C</u> KFF05ST- <u>X</u>	

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

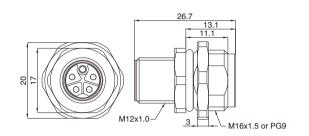
• Coding: K

• Locking type: Fix screw

• Mounting type: Rear fastened

• Part No.: MB12M*KRF05ST-X

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









■ General information

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

■ Electrical data & Mechanical data

Contacts	Contacts	Contacts Rated	Volt	tage	Wire gau	uge / size	Part No.		
Conta	acts	termination	current	current	A/C	D/C	AWG	mm²	rait NO.
05 pins	(4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12M <u>S</u> KRF05ST- <u>X</u> MB12M <u>C</u> KRF05ST- <u>X</u>	

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

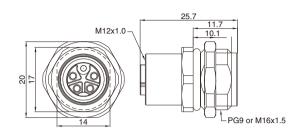






M12 Female Panel, Solder & Crimp, Rear fastened, K-coding

- 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

Comtasts	Contacts Contacts		Rated	Rated Voltage		Wire gauge / size		Part No.		
Con	tacts	termination	current	current	current	A/C	D/C	AWG	mm²	Part NO.
05 pins	(4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12F <u>S</u> KRF05ST- <u>X</u> MB12F <u>C</u> KRF05ST- <u>X</u>		

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

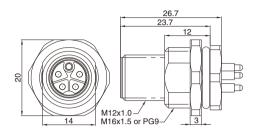
• Coding: K

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB12MBKFF05ST-X

X refers to Chasis-side thread size









■ General information

IEC 61076-2-111
-40° C ~ $+80^{\circ}$ C(fixed installation)
-20°C ~ $+80$ °C(flexible installation)
PA
Brass with gold plated
Brass with nickel plated
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	Rated	Voltage		Wire gauge / size		Part No.
Con	tacts	termination	current	A/C	D/C	AWG	mm²	Part NO.
05 pins	(4+PE)	РСВ	16A	690V	NC	14AWG	2.0	MB12MBKFF05ST- <u>X</u>

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



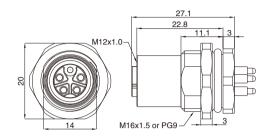




M12 Female Panel, PCB Type, Front fastened, K-coding

- 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 Contacts	Rated	Voltage		Wire gauge / size		Part No.	
Com	lacis	termination	current	A/C	D/C	AWG	mm²	rait NO.
05 pins	(4+PE)	РСВ	16A	690V	NC	14AWG	2.0	MB12FBKFF05ST- <u>X</u>

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

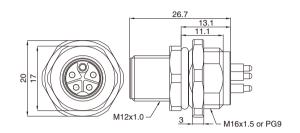
• Coding: K

• 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 $^{\circ}$ C ~ +80 $^{\circ}$ 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		Voltage		Wire gauge / size		Part No.
Con	tacts	termination	current	A/C	D/C	AWG	mm²	Part NO.
05 pins	(4+PE)	РСВ	16A	690V	NC	14AWG	2.0	MB12MBKRF05ST- <u>X</u>

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



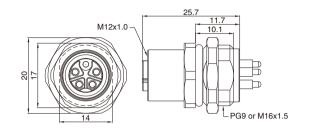




M12 Female Panel, PCB Type, Rear fastened, K-coding

- 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

IEC 61076-2-111
-40°C ~ $+80$ °C(fixed installation)
-20°C ~ $+80$ °C(flexible installation)
PA
Brass with gold plated
Brass with nickel plated
FKM

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

■ Electrical data & Mechanical data

Comtasts	Contacts Contacts	Rated	Voltage		Wire gauge / size		Part No.		
Cor	itacts	termination	termination current		A/C	D/C	AWG	mm²	rait NO.
05 pins	(4+PE)	РСВ	16A	690V	NC	14AWG	2.0	MB12FBKRF05ST- <u>X</u>	

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

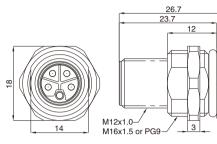






M12 Male Panel, Solder & Crimp, Front fastened, L-coding

- 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 R	Contacts Rated termination current		Volt	Voltage		uge / size	Part No.
Contac	Lis			termination curren		A/C	D/C	AWG
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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

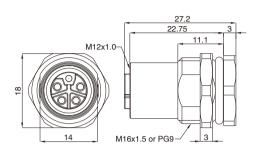






M12 Female Panel, Solder & Crimp, Front fastened, L-coding

- 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 Chasis-side thread size









■ General information

IEC 61076-2-111
-40°C ~ $+80$ °C(fixed installation)
-20°C ~ +80°C(flexible installation)
PA
Brass with gold plated
Brass with nickel plated
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	Contacts Rated		Voltage		uge / size	Part No.	
	Com	lacis	termination curren		A/C	D/C	AWG	mm²	rait NO.
•	05 pins	(4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12F <u>S</u> LFF05ST- <u>X</u> MB12F <u>C</u> LFF05ST- <u>X</u>

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

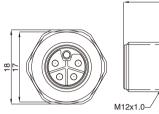


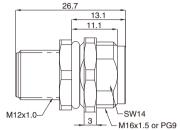




M12 Male Panel, Solder & Crimp, Rear fastened, L-coding

- 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 F	Rated	Voltage		Wire gauge / size		Part No.	
Con	lacis	termination	current	A/C	D/C	AWG	mm²	Part NO.
05 pins	(4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12M <u>S</u> LRF05ST- <u>X</u> MB12M <u>C</u> LRF05ST- <u>X</u>

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

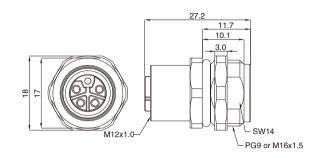






M12 Female Panel, Solder & Crimp, Rear fastened, L-coding

- 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 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		Contacts Rated		Contacts Rated Voltage		Wire gauge / size		Part No.
	Com	lacis	termination	current	A/C	D/C	AWG	mm²	Part NO.	
•	05 pins	(4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12F <u>S</u> LRF05ST- <u>X</u> MB12F <u>C</u> LRF05ST- <u>X</u>	

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

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

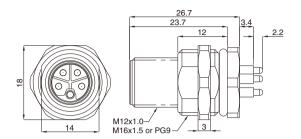
• Coding: L

• 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 ~ $+80^{\circ}$ C(fixed installation)
	-20° C ~ $+80^{\circ}$ 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		Contacts Rated		Contacts Rated Voltage		Wire gauge / size		Part No.
Con	tacts	current		A/C	D/C	AWG	mm²	rait NO.		
05 pins	(4+PE)	РСВ	16A	NC	63V	NC	NC	MB12MBLFF05ST- <u>X</u>		

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



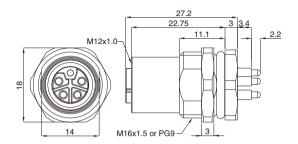




M12 Female Panel, PCB Type, Front fastened, L-coding

- 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 Contacts	Rated	Voltage		Wire gauge / size		Part No.		
Con	lacis	termination	termination current		A/C	D/C	AWG	mm²	rait NO.
05 pins	(4+PE)	РСВ	16A	NC	63V	NC	NC	MB12FBLFF05ST- <u>X</u>	

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

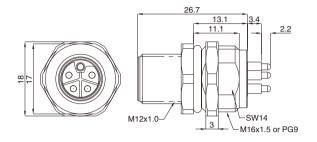
• Coding: L

• 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		Contacts Rated Voltage		tage	Wire ga	uge / size	Part No.
Con	tacts	current		A/C	D/C	AWG	mm²	rait NO.	
05 pins	(4+PE)	РСВ	16A	NC	63V	NC	NC	MB12MBLRF05ST <u>-X</u>	

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- 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

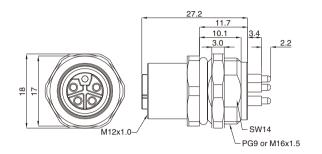
• Coding: L

• 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	mm²	rait NO.	
	05 pins	(4+PE)	РСВ	16A	NC	63V	NC	NC	MB12FBLRF05ST- <u>X</u>

Note: X refers to Chasis-side thread size

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.







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

• Connector series: M12

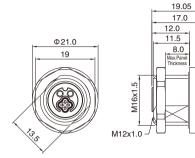
• Gender: Female

• Coding: Y1

• Locking type: Fix screw

• Mounting type: Straight

• Part No.: MB12FBSY106ST-2











■ General information

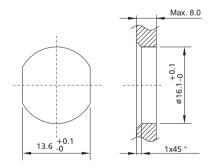
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ +80°C(fixed installation)
	-20°C ~ +80°C(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

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

■ Electrical data & Mechanical data

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

■ Panel Cut-out Dimensions



- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

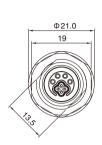


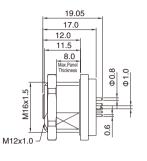




M12 Female Panel, PCB, Front fastened, Y2-coding, Shielded

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









■ General information

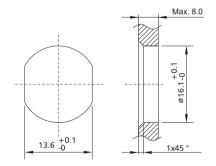
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

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

■ Electrical data & Mechanical data

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

■ Panel Cut-out Dimensions



- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

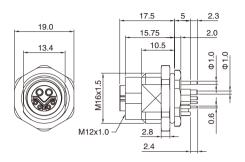






M12 Female Panel, PCB, Front fastened, Y3-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y3
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY306ST-2









■ General information

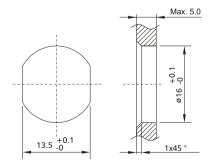
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

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

■ Electrical data & Mechanical data

Cont	tacts	Contacts termination	Rated current	Voltage D/C		Part No.
06 pins	000	PCB	12A	50V	50V	MB12FBSY306ST-2

■ Panel Cut-out Dimensions



- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

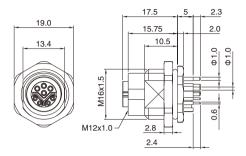






M12 Female Panel, PCB, Front fastened, Y4-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y4
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBY408ST-2









■ General information

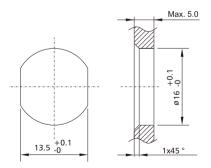
Standard:	IEC 61076-2-113
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

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

■ Electrical data & Mechanical data

Contacts		Contacts Contacts		Volt	Part No.	
Com	lacis	termination current		A/C	D/C	rait NO.
08 pins		PCB	6A	50V	50V	MB12FBSY408ST-2

■ Panel Cut-out Dimensions



- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.



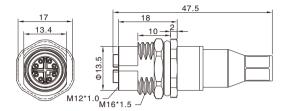




M12 Female Panel, Crimp, Front fastened, X-coding, Shielded

- 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





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■ 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

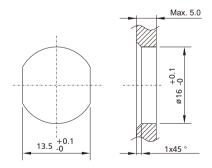
Insulation resistance:	≥100MΩ
Contact resistance :	≤10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT6A / CAT7
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Rated	Volt	Voltage		Wire gauge / size		Part No.
		current	A/C	D/C	AWG	mm²	Cable spec	rait No.
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT6A/CAT7	MB12FCSXFF08ST- <u>X</u>

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 mm².
- Please refer to Page 96 for products' part number encoding rule.







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

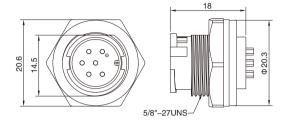
• Connector series: M12

• Gender: Male

• Locking type: Quick-lock

• Mounting type: Front fastened • Part No.: MB12MSAFQ**ST

** refers to pins number











■ General information

-25℃ ~ +90℃
PA + GF
Brass with gold plated
PA+GF
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

Cont	Contacts		Contacts Rated	Voltage		Wire gauge / size		Wire	Part No.
Con	lacis	termination	current	A/C	D/C	AWG	mm²	insulation	rait No.
04 pins	2	Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSAFQ04ST
06 pins	(20 5 03) 10 6 04	Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSAFQ06ST

■ Remarks







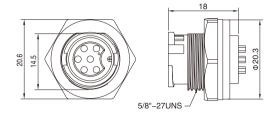
M12 Female Panel Mount, Solder, Front fastened, Quick-lock Type

• Connector series: M12

• Gender: Female

• Locking type: Quick-lock • Mounting type: Front fastened

Part No.: MB12FSAFQ**ST











■ General information

-25℃ ~ +90℃
PA + GF
Brass with gold plated
PA+GF
Epoxy resin / FKM

≥100MΩ
≤5mΩ
Unavailable
IP65, IP68 in locked condition
Refer to page 287
>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Voltage		Wire gauge / size		Wire	Part No.
Con	ldClS	termination curren		A/C D/C		AWG mm²		insulation	rait No.
04 pins	30 Q2 40 Q1	Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12FSAFQ04ST
06 pins	30 5 02 40 6 01	Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12FSAFQ06ST

■ Remarks



^{**} refers to pins number





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

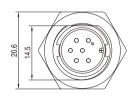
• Connector series: M12

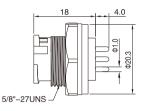
• Gender: Male

• Locking type: Quick-lock

• Mounting type: Front fastened

• Part No.: MB12MBAFQ**ST













■ General information

-25℃ ~ +90℃
PA + GF
Brass with gold plated
PA+GF
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

Cont			Contacts Rated		Voltage		
Con	ldClS	termination	current	A/C	D/C	Part No.	
04 pins	2 ® 3 1 ® 84	PCB version	4A	250V	250V	MB12MBAFQ04ST	
06 pins	20 5 03 10 6 04	PCB version	4A	60V	60V	MB12MBAFQ06ST	

■ Remarks



^{**} refers to pins number





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

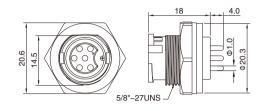
• Connector series: M12

• Gender: Female

• Locking type: Quick-lock

• Mounting type: Front fastened

Part No.: MB12FBAFQ**ST





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■ General information

-25℃ ~ +90℃
PA + GF
Brass with gold plated
PA+GF
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 Contacts				Volt	Part No.
Con	tacts	termination	current	A/C	D/C	rait No.	
04 pins	30 O2 40 O1	PCB version	4A	250V	250V	MB12FBAFQ04ST	
06 pins	(30 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 1 d 0 0 0 0	PCB version	4A	60V	60V	MB12FBAFQ06ST	

■ Remarks



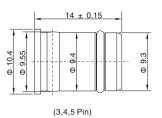
^{**} refers to pins number

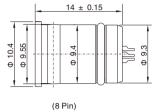




M12 Male Plastic Housing with O-ring, Solder

- 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







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■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
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

Comtosto	Available Coding		Contacts	Rated	Volt	tage	Wire gau	uge / size	Part No.	
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Part NO.
03 pins	4 () () () () () () () () () (4 3 3		Solder version	4A	250V	250V	22AWG	0.34	M12H-MSA03 M12H-MSB03
04 pins	4@ @3	48 83	10 0	Solder version	4A	250V	250V	22AWG	0.34	M12H-MSA04 M12H-MSB04 M12H-MSD04
05 pins	4® ®3 ®5 1® ®2	4 ® ® 3 ® 5 18 ® 2		Solder version	4A	60V	60V	22AWG	0.34	M12H-MSA05 M12H-MSB05
08 pins	(60 5 04) (70 0 03) (10 8 02)			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 mm².







M12 Male Plastic Housing with O-ring, PCB Type

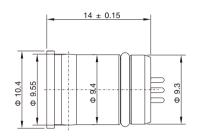
• Connector series: M12

• 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

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
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

Cambasta	Ava	ailable Cod	ling	Contacts	Rated	Voltage		Part No.
Contacts	А	В	D	termination	current	A/C	D/C	Part NO.
03 pins	4 ® 3 1 ® 3	4 ® 3 1 ® 3		PCB version	4A	250V	250V	M12H-MBA03 M12H-MBB03
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	4	PCB version	4A	250V	250V	M12H-MBA04 M12H-MBB04 M12H-MBD04
05 pins	4	4		PCB version	4A	60V	60V	M12H-MBA05 M12H-MBB05
08 pins	(60 5 04) (70 0 03) (10 8 02)			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 mm².

