



# **M5 Male Molded Cable, Straight**

• Connector series: M5

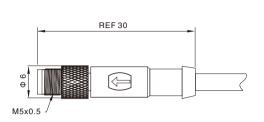
• Gender: Male

• Coding: A

• Locking type: Fix screw • Mounting type: Straight

• Part No.: MA05MAF\*\*STXXXX14

\*\*refers to pins number X refers to cable specification





# c**¶**us ( € RoHS ∰



### ■ General information

Standard:	IEC 61076-2-105
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

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

### ■ Electrical data & Mechanical data

Contacts		Rated	Voltage		Wire gauge / size		Cable jacket	Part No.							
Cont	Contacts		A/C	D/C	AWG mm²		Cable Jacket	rait NO.							
03 pins	<b>1</b>	1A	60V	601/	60V	601/	5014	601/	601/	601	26AWG (	0.14	0.14	PVC	MA05MAF03ST <u>XX</u> CB14
05 pins	3 • 4	IA	300				0.14	0.14	PUR	MA05MAF03ST <u>XX</u> RB14					
04 pins	2 0 1	1.0	601/	601/	601/	601/	601/	601	26 000/6	0.44	0.14	PVC	MA05MAF04ST <u>XX</u> CB14		
04 pins	1A 60V 60V 26AWG	0.14	PUR	MA05MAF04ST <u>XX</u> RB14											

Note:  $\underline{X}$  refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# **M5 Female Molded Cable, Straight**

• Connector series: M5

• Gender: Female

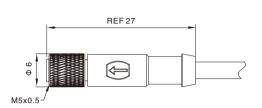
• Coding: A

• Locking type: Fix screw

• Mounting type: Straight

• Part No.: MA05FAF\*\*STXXXX14

\*\*refers to pins number X refers to cable specification









### ■ General information

IEC 61076-2-105
-40°C ~ +80°C(fixed installation)
-20°C ~ +80°C(flexible installation)
TPU
Brass with gold plated
TPU
Brass with nickel plated
FKM

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

### ■ Electrical data & Mechanical data

Cont	acts	Rated Voltage		Wire gauge / size		Cable jacket	Part No.	
Cont	.dCtS	current	current A/C D/C AWG mr		mm²	Cable Jacket	rait NO.	
03 pins	10	1A	60V	60V	26AWG	0.14	PVC	MA05FAF03ST <u>XX</u> CB14
05 pins	40 03	IA	000	000	ZVAVVG	0.14	PUR	MA05FAF03ST <u>XX</u> RB14
04 pins	10 02	1.0	601/	601/	26 0006	0.14	PVC	MA05FAF04ST <u>XX</u> CB14
04 piris	40 03	1A	60V	60V	26AWG	0.14	PUR	MA05FAF04ST <u>XX</u> RB14

Note:  $\underline{X}$  refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# M5 Male Molded Cable, Straight, Shielded

• Connector series: M5

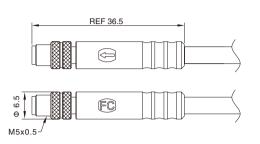
• Gender: Male

• Coding: A

• Locking type: Fix screw • Mounting type: Straight

• Part No.: MA05MSAF\*\*STXXXX14

\*\*refers to pins number X refers to cable specification





# c¶ (€ RoHS PF)



### ■ General information

Standard:	IEC 61076-2-105
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

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

### ■ Electrical data & Mechanical data

Contacts		Rated	Voltage		Wire gauge / size		Cable jacket	Part No.				
Com	Contacts		A/C	D/C	AWG mm²		Cable Jacket	rait NO.				
03 pins	<b>●</b> 1	1A	601/	601/	60V	60V	601/	26 0006	WG 0.14	0.14	PVC	MA05MSAF03ST <u>XX</u> CB14
05 pins	3 • 4	IA	000	25/4/2	PUR	20000 0.14	20/114	0.14		PUR	MA05MSAF03ST <u>XX</u> RB14	
04 pins	2 0 1	1A 60	601/	601/	260006	0.14	PVC	MA05MSAF04ST <u>XX</u> CB14				
04 piris	3 • 4	IA	6UV	60V 60V 26AWG 0.14	0.14	PUR	MA05MSAF04ST <u>XX</u> RB14					

Note:  $\underline{X}$  refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# M5 Female Molded Cable, Straight, Shielded

• Connector series: M5

• Gender: Female

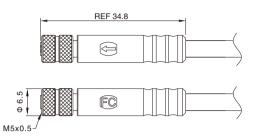
• Coding: A

• Locking type: Fix screw

• Mounting type: Straight

• Part No.: MA05FSAF\*\*STXXXX14

\*\*refers to pins number X refers to cable specification









### ■ General information

IEC 61076-2-105
-40°C ~ +80°C(fixed installation)
-20°C ~ +80°C(flexible installation)
TPU; PA
Brass with gold plated
TPU
Brass with nickel plated
FKM

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

# ■ Electrical data & Mechanical data

Cont	Contacts		Contacts Rated		Voltage		Wire gauge / size		Cable jacket	Part No.										
Cont	lacis	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.												
03 pins	10	1A	60V	A 60V 60V 26AWG	607	601/	36006	0.14	0.14	PVC	MA05FSAF03ST <u>XX</u> CB14									
05 pilis	40 03	IA			23 <b>v</b>	50 <b>v</b>	55V	00V	001	001	001	00 V	00V	001		00 V	20AVVG 0.14	ZOAWG	0.14	0.14
04 pins	10 O2	1.0	60V	601	260006	0.14	PVC	MA05FSAF04ST <u>XX</u> CB14												
04 pins	40 03	1A	600	60V	26AWG		PUR	MA05FSAF04ST <u>XX</u> RB14												

Note:  $\underline{X}$  refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# M5 Male Molded Cable, Angled

• Connector series: M5

• Gender: Male

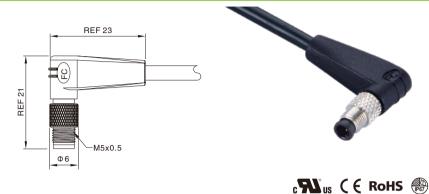
• Coding: A

• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MA05MAF\*\*RAXXXX14

\*\*refers to pins number
X refers to cable specification



# ■ General information

Standard:	IEC 61076-2-105
Ambient temperature:	-40 °C ~ $+80$ °C (fixed installation)
	-20 °C ~ +80 °C (flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

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

### ■ Electrical data & Mechanical data

Contacts		Rated Voltage		Wire gau	uge / size	Cable jacket	Part No.		
Com	lacis	current	A/C	D/C	AWG	mm²	Cable Jacket	rait NO.	
03 pins	<b>●</b> 1	1A	60V	60V	26AWG	0.14	PVC	MA05MAF03RA <u>XX</u> CB14	
05 pins	3 • 4	IA	000	000	ZUAVVG	0.14	0.14	PUR	MA05MAF03RA <u>XX</u> RB14
04 pins	2 1	1.0	601	60V	26AWG	0.14	PVC	MA05MAF04RA <u>XX</u> CB14	
04 pins	3 • 4	1A	60V	600		0.14	PUR	MA05MAF04RA <u>XX</u> RB14	

Note: <u>X</u> refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# **M5 Female Molded Cable, Angled**

• Connector series: M5

• Gender: Female

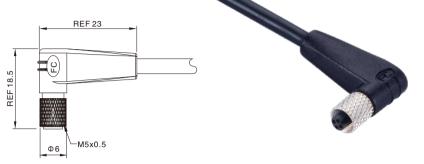
• Coding: A

• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MA05FAF\*\*RAXXXX14

\*\*refers to pins number X refers to cable specification



# c**¶**us ( € RoHS ∰



### ■ General information

Standard:	IEC 61076-2-105
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ +80°C(flexible installation)
Connector insert:	TPU
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:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### ■ Electrical data & Mechanical data

Cont	Contacts		Rated Voltage		Wire gau	uge / size	Cable jacket	Part No.															
Com	lacis	current	A/C	D/C	AWG	mm²	Cable Jacket Fait No.																
03 pins	10	1A	60V	60V	60V	60V	60V	60V	60V	60V	60V	60V	60V	60V	60V	60V	60V	COV	501/	26AWG	0.14	PVC	MA05FAF03RA <u>XX</u> CB14
03 pilis	40 03	IA	000															PUR	0.14	20AVVG 0.14	PUR	MA05FAF03RA <u>XX</u> RB14	
04 pins	10 02	1.0	5014	601/	601	60V	26AWG	26AWG	0.14	PVC	MA05FAF04RA <u>XX</u> CB14												
04 pilis	40 03	1A	60V	600	26AWG	26AWG			26AWG	0.14	PUR	MA05FAF04RA <u>XX</u> RB14											

Note:  $\underline{X}$  refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# **M5 Male Panel Mount, Solder, Front fastened**

• Connector series: M5

• Gender: Male

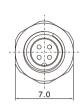
Coding: A

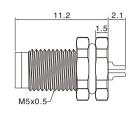
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB05MSAFF\*\*ST

\*\*refers to pins number











### ■ General information

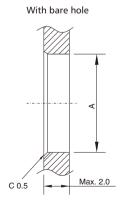
IEC 61076-2-105
-25℃ ~ +90℃
TPU
Brass with gold plated
Brass with nickel plated
Epoxy resin / FKM

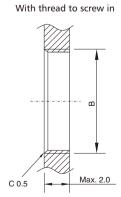
Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

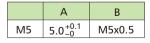
## ■ Electrical data & Mechanical data

Contacts		Contacts Rated		Voltage		Wire gauge / size		Wire	Part No.
Com	iacis	termination	current	A/C D/C		AWG	mm <sup>2</sup>	insulation	rait No.
03 pins	(3) (4)	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05MSAFF03ST
04 pins	2 1	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05MSAFF04ST

### ■ Panel Cut-out Dimensions







- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.









# **M5 Female Panel Mount, Solder, Front fastened**

• Connector series: M5

• Gender: Female

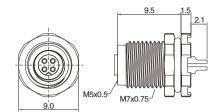
• Coding: A

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB05FSAFF\*\*ST

\*\*refers to pins number









### ■ General information

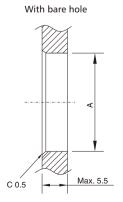
Seal / O-ring:	Epoxy resin / FKM
Connector nut/screw:	Brass with nickel plated
Connector contacts:	Brass with gold plated
Connector insert:	PA + GF
Ambient temperature:	-25℃ ~ +90℃
Standard:	IEC 61076-2-105

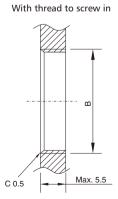
Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### ■ Electrical data & Mechanical data

Contacts		Contacts Rated		Voltage		Wire gauge / size		Wire	Part No.
Cont	lacis	termination	current	A/C	D/C	AWG	mm²	insulation	rait NO.
03 pins	10 40 03	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05FSAFF03ST
04 pins	10 O2 40 O3	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05FSAFF04ST

### ■ Panel Cut-out Dimensions





	А	В
M7	$7.0^{+0.1}_{-0}$	M7x0.75

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.







# **M5 Male Panel Mount, Solder, Rear fastened**

• Connector series: M5

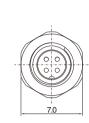
• Gender: Male

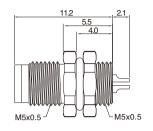
• Coding: A

• Locking type: Fix screw

• Mounting type: Rear fastened

• Part No.: MB05MSARF\*\*ST











### ■ General information

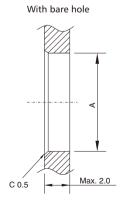
IEC 61076-2-105
-25℃ ~ +90℃
TPU
Brass with gold plated
Brass with nickel plated
Epoxy resin / FKM

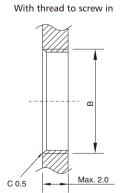
Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### ■ Electrical data & Mechanical data

Cont	tacto	Contacts	Rated	Volt	tage	Wire gau	uge / size	Wire	Part No.
Com	ldClS	termination	current	A/C	D/C	AWG	mm²	insulation	rait No.
03 pins	3 • 4	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05MSARF03ST
04 pins	2 • •1 3 • •4	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05MSARF04ST

### ■ Panel Cut-out Dimensions





	А	В
M5	5.0 <sup>+0.1</sup> <sub>-0</sub>	M5x0.5

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.





<sup>\*\*</sup>refers to pins number







# **M5 Female Panel Mount, Solder, Rear fastened**

• Connector series: M5

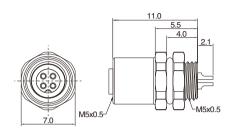
• Gender: Female

· Coding: A

• Locking type: Fix screw

• Mounting type: Rear fastened

• Part No.: MB05FSARF\*\*ST









### ■ General information

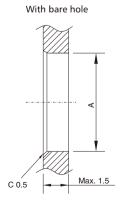
Standard:	IEC 61076-2-105
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

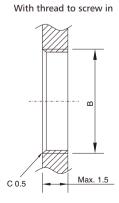
Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

### ■ Electrical data & Mechanical data

Cont	Contacts		Contacts Rated		Voltage		Wire gauge / size		Part No.
Cont	lacis	termination	current	A/C	D/C	AWG	mm²	insulation	Part NO.
03 pins	10 40 03	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05FSARF03ST
04 pins	10 O2 40 O3	Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	MB05FSARF04ST

# ■ Panel Cut-out Dimensions





	А	В
M7	5.0+0.1	M5x0.75

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm<sup>2</sup>.
- Please refer to Page 3 for products' part number encoding rule.



<sup>\*\*</sup>refers to pins number





# M5 Male Panel Mount, PCB Type, Front fastened

• Connector series: M5

• Gender: Male

• Coding: A

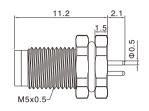
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB05MBAFF\*\*ST

\*\*refers to pins number











### ■ General information

Connector nut/screw:	Brass with nickel plated
Connector contacts:	Brass with gold plated
Connector insert:	TPU
Ambient temperature:	-25℃ ~ +90℃
Standard:	IEC 61076-2-105

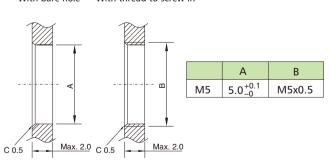
Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

## ■ Electrical data & Mechanical data

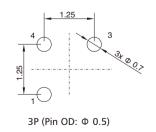
Contacts		Contacts			Voltage		
Com	lacis	termination	termination current		D/C	Part No.	
03 pins	3 • 4	PCB version	1A	60V	60V	MB05MBAFF03ST	
04 pins	2	PCB version	1A	60V	60V	MB05MBAFF04ST	

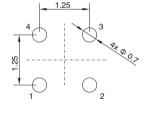
### ■ Panel Cut-out Dimensions

#### With bare hole With thread to screw in



# ■ PCB Layout





4P (Pin OD: Φ 0.5)

### ■ Remarks

• Please refer to Page 3 for products' part number encoding rule.







# M5 Female Panel Mount, PCB Type, Front fastened

• Connector series: M5

• Gender: Female

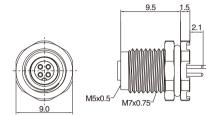
• Coding: A

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB05FBAFF\*\*ST

\*\*refers to pins number









### ■ General information

ted
ated

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

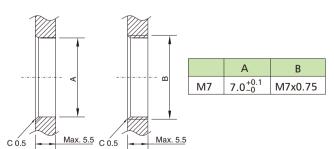
# ■ Electrical data & Mechanical data

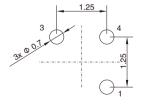
Cont	tacts	Contacts	Rated	Volt	age	Part No.
Com	lacis	termination	current	A/C	D/C	rait NO.
03 pins	10 40 03	PCB version	1A	60V	60V	MB05FBAFF03ST
04 pins	10 O2 40 O3	PCB version	1A	60V	60V	MB05FBAFF04ST

### ■ Panel Cut-out Dimensions

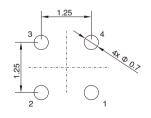
### ■ PCB Layout

With bare hole With thread to screw in





3P (Pin OD: Φ 0.5)



4P (Pin OD: Φ 0.5)

### ■ Remarks

• Please refer to Page 3 for products' part number encoding rule.







# M5 Male Panel Mount, PCB Type, Front fastened, Shielded

• Connector series: M5

• Gender: Male

• Coding: A

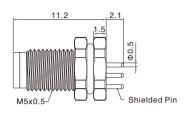
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB05MBSAFF\*\*ST

\*\*refers to pins number











### ■ General information

IEC 61076-2-105
-25℃ ~ +90℃
TPU
Brass with gold plated
Brass with nickel plated
Epoxy resin / FKM

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

### ■ Electrical data & Mechanical data

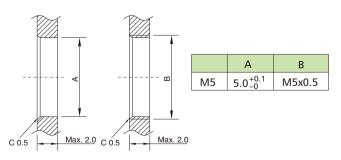
Cont	tacts	Contacts termination	Rated	Volt	tage	Part No.
Com	lacis		current	A/C	D/C	Part NO.
03 pins	3 • 4	PCB version	1A	60V	60V	MB05MBSAFF03ST
04 pins	2	PCB version	1A	60V	60V	MB05MBSAFF04ST

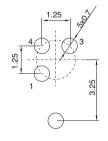
13

### ■ Panel Cut-out Dimensions

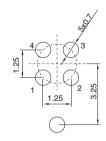
# **■ PCB Layout**

With bare hole With thread to screw in





3P (Pin OD: Φ 0.5)



4P (Pin OD: Φ 0.5)

# ■ Remarks

• Please refer to Page 3 for products' part number encoding rule.





# M5 Female Panel Mount, PCB Type, Front fastened, Shielded

• Connector series: M5

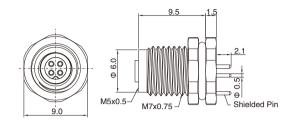
• Gender: Female

• Coding: A

• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB05FBSAFF\*\*ST









### ■ General information

IEC 61076-2-105
-25℃ ~ +90℃
PA + GF
Brass with gold plated
Brass with nickel plated
Epoxy resin / FKM

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

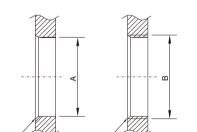
### ■ Electrical data & Mechanical data

Cont	tacts	Contacts	Rated	Volt	age	Part No.
Com	iacis	termination	current	A/C	D/C	rait No.
03 pins	10 40 03	PCB version	1A	60V	60V	MB05FBSAFF03ST
04 pins	10 O2 40 O3	PCB version	1A	60V	60V	MB05FBSAFF04ST

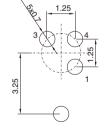
### ■ Panel Cut-out Dimensions

With bare hole

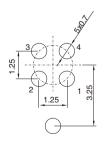
### ■ PCB Layout



	А	В
M7	7.0+0.1	M7x0.75



3P (Pin OD: Φ 0.5)



4P (Pin OD: Φ 0.5)

### ■ Remarks

• Please refer to Page 3 for products' part number encoding rule.

With thread to screw in



<sup>\*\*</sup>refers to pins number