Circular sensor

connectors













M8 cables & connectors

The M8 Series provides a wide range of metric M8 connectors for small sensors and actuators. Available in a shielded form and rated to IP67, these connectors are ideally suited for industrial control networks where small sensors are required. Connectors are either factory TPU over-molded or panel receptacle supplied with a solder-cup for wire connecting or with PCB panel solder contacts. A field attachable/mountable connector is also available.

- Design as per IEC 61076-2-104
- Degree of protection IP67
- 3, 4, 5, 6, 8 poles are available
- 360° EMC shielding is available for molded cable type
- TPU over molded or PA+GF shell
- Anti-vibration locking screw design
- Cable length customized, PUR and PVC cable options



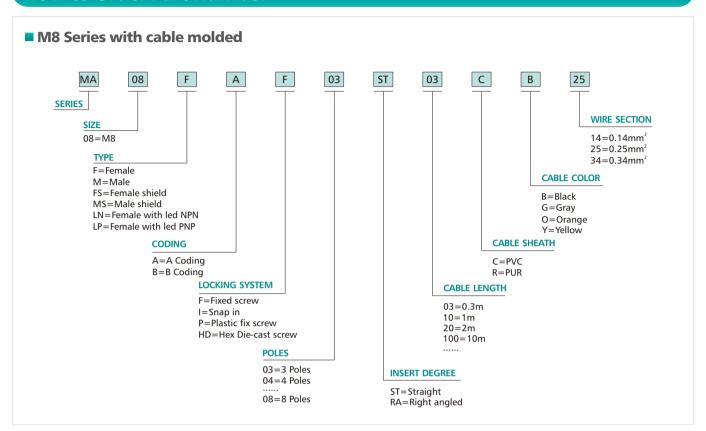


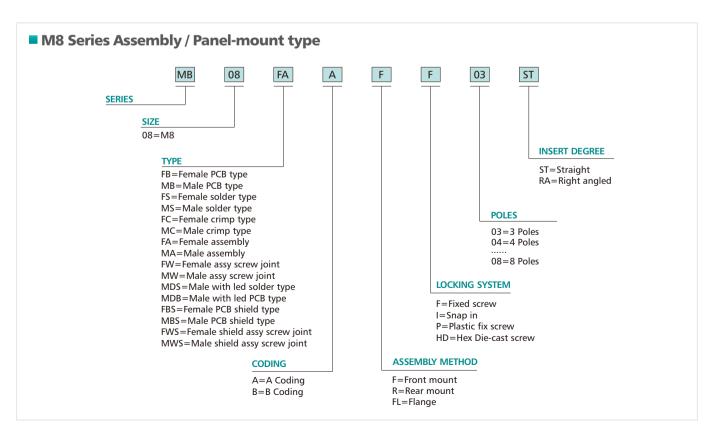
	Available Coding	A-c	A-coding		A-coding		B-coding		A-coding			
B.40	Rated Current		3A		3A		3A		1.5A			
M8	Voltage	50V(A/C)	50V(A/C), 60V(D/C)		50V(A/C), 60V(D/C)		30V(A/C), 30V(D/C)		30V(A/C), 30V(D/C)			
Quick Search Table	Wire Gauge / size	24AWG	/ 0.25mm²	24AWG /	0.25mm ²	24AWG / 0.25mm ²			26AWG /	0.14mm ²		
Quick Scarcii labic	Pin layout	●4 ●1 ●3 Male	40 30 10 Female	2 • •4 • 1 3 • Male	40 0 ₂ 0 _{3 1} 0 Female	2 • • 4 • 1 • 5 • 9 • Male	40 02 03 5 10 Female	Д (5⊕ ⊕ 3) 1⊕ 6 ⊕2 Male	(30 0 05) 20 6 01) Female	66 64 78 62 Male	40006 30007 20801	
M8 cables & conne	ables & connectors		Pins	04 P	ins	05	Pins	06	Pins	08	Pins	
Molded Cable												
	Male Molded Cable Straight	23	-	23	_	23	-	23	-	23	-	
	Male Molded Cable Straight Shielded	26	-	26	-	26	-	26	-	26	-	
	Male Molded Cable Straight Snap-in	28	_	28	-	-	-	-	-	-	-	
13311	Female Molded Cable Straight	-	24	-	24	-	24	_	24	-	24	
	Female Molded Cable Straight Plastic	-	25	_	25	-	25	_	25	-	25	
	Female Molded Cable Straight Hastic	-	27	_	27	-	27	_	27	-	27	
	~		29								21	
	Female Molded Cable Straight Snap-in			- 20	29	-	-	-	-	-	-	
	Male Molded Cable Angled	30	-	30	-	30	-	30	-	30	-	
	Male Molded Cable Angled Shielded	33	-	33	-	33	-	33	-	33	-	
PI_ P N	Male Molded Cable Angled Snap-in	35	-	35	-	-	-	-	-	-	-	
	Female Molded Cable Angled	-	31	-	31	-	31	-	31	-	31	
	Female Molded Cable Angled Plastic	-	32	-	32	-	32	-	32	-	32	
	Female Molded Cable Angled Shielded	-	34	-	34	-	34	-	34	-	34	
, ,	Female Molded Cable Angled Snap-in	-	36	-	36	-	-	-	-	-	-	
	Female Molded Cable Angled with LED	-	37	-	37	-	-	-	-	-	-	
ssembly Type												
	Male Field Wirable Assembly Straight Solder	38	-	38	-	38	-	38	-	38	-	
	Female Field Wirable Assembly Straight Solder	-	39	-	39	-	39	-	39	-	39	
	Male Field Wirable Assembly Straight Screw Joint Shielded	40	-	40	-	40	-	40	-	40	-	
and the same of th	Female Field Wirable Assembly Straight Screw Joint Shielded	-	41	-	41	-	41	-	41	-	41	
anel Mount Type		,			1	1	1	1	1			
	Male Panel Mount Solder Front fastened	42	_	42	_	42	-	42	_	42	_	
	Male Panel Mount Solder Rear fastened	44	_	44	_	44	-	44	-	44	_	
	Male Panel Mount Solder with LED	-	_	48	-	-	-	-	-	-	_	
	Female Panel Mount Solder Front fastened	46	_	46	-	-	_	-	-	-	_	
	Female Panel Mount Solder Rear fastened	47	_	47	-	_	_	_	_	-	_	
	Male Panel Mount PCB Type Front fastened	49/51	_	49/51	-	49	-	_	-	-		
M. A. I. I.	Male Panel Mount Angled PCB Type Front fastened Shielded	53	-	53	-	53	-	-	-	-	-	
	3 2.		-								-	
	Female Panel Mount PCB Type Front fastened	50	-	50	-	50	-	50	-	50	-	
	Female Panel Mount Angled PCB Type Front fastened Shielded	54	-	54	-	54	-	-	-	-	-	
alittar Cannastar	Male to Femle Panel Mount	52	52	52	52	52	52	-	-	-	-	
plitter Connector						ı		ı		ı		
	Y-Splitter Male-2 Female	55	55	55	55	55	55	-	-	-	-	
	L-Adapter Male-Female	56	56	56	56	56	56	-	-	-	-	
	Male Terminator Straight with LED	57	-	57	-	57	-	-	-	-	-	
rotection Cap												
	Protection Cap for Male Connector					5	8-1					
	Protection Cap for Male Molded Cable Connector					5	9-1					
	Protection Cap for Male Panel-mount Connector						60-1					
	Protection Cap for Female Connector						8-2					
	Protection Cap for Female Molded Cable Connector						9-2					
	Protection Cap for Female Panel-mount Connector						60-2					

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How to Order Part Number







M8 Male Molded Cable, Straight

• Connector series: M8

• Gender: Male • Coding: A,B

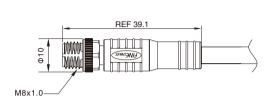
• Locking type: Fix screw • Mounting type: Straight

• Part No.: MA08M*HD**STXXXXXX

* refers to coding type

** refers to pins number

X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
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:	Zinc alloy 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

Con	Contacts		Voltage		Wire gauge / size		Cable jacket	Part No.
Contacts		current	A/C	D/C	AWG	mm ²	Cable Jacket	Part NO.
03 pins	● 4 ● 1 ● 3	3A	50V	60V	24AWG	0.25	PVC	MA08MAHD03ST <u>XX</u> CB25
	(A-coding)	34	300			0.23	PUR	MA08MAHD03ST <u>XX</u> RB25
04 pins	2 ● 4	3A	50V	60V	24AWG	0.25	PVC	MA08MAHD04ST <u>XX</u> CB25
	(A-coding)	34	300	000	ZHAVVG		PUR	MA08MAHD04ST <u>XX</u> RB25
05 pins	2 • •4 •1 5 3 •	20 04 01 5 30	30V	30V 24AWG	2400/G	AWG 0.25	PVC	MA08MBHD05ST <u>XX</u> CB25
	(B-coding)	34	300		0.25		PUR	MA08MBHD05ST <u>XX</u> RB25
06 pins	(50 0 03) 10 6 02	1.5A	30V	30V	26AWG	0.14	PVC	MA08MAHD06ST <u>XX</u> CB14
	(A-coding)	1.JA	300	300	ZUAVVG	0.14	PUR	MA08MAHD06ST <u>XX</u> RB14
08 pins	6 • • 4 7 • • • 3	1 5 4	201	2014	26AWG	0.14	PVC	MA08MAHD08ST <u>XX</u> CB14
	(A-coding)	(A-coding)	30V	30V			PUR	MA08MAHD08ST <u>XX</u> RB14

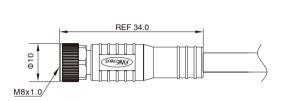
Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Straight

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08F*HD**STXXXXXX
 - * refers to coding type
 - ** refers to pins number
 - X refers to cable specification



Insulation resistance:

Contact resistance:

Mating endurance:

Shielding:

IP rating:



c¶ (€ RoHS (PST)

IP67 in locked condition

≥100MΩ

Unavailable

>500 cycles

≤5mΩ



■ General information

IEC 61076-2-104
-40 °C ~ $+80$ °C (fixed installation)
-20°C ~ +80°C(flexible installation)
TPU
Brass with gold plated
TPU
Zinc alloy with nickel plated
FKM

■ Electrical data & Mechanical data

Com	to etc	Rated	Volt	tage	Wire gauge / size		Cable jacket	Dowt No.		
Contacts		current	A/C	D/C	AWG	mm²		Part No.		
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FAHD03ST <u>XX</u> CB25		
	(A-coding)	37	300	00 V	24AVVG	0.23	PUR	MA08FAHD03ST <u>XX</u> RB25		
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	PVC	MA08FAHD04ST <u>XX</u> CB25		
04 pms	(A-coding)	34	300	000	24AVVG		PUR	MA08FAHD04ST <u>XX</u> RB25		
05 pins	4O O2 O3 1O	.0))	24	3.V	3.V	((O3 5 10)) 3A 30V 30V	24AWG	0.25	PVC	MA08FBHD05ST <u>XX</u> CB25
os pins	(B-coding)	34	300	300	Z4AVVG	0.25	PUR	MA08FBHD05ST <u>XX</u> RB25		
06 pins	(30 005) 206 01	1.5A	30V	30V	26AWG	0.14	PVC	MA08FAHD06ST <u>XX</u> CB14		
oo piris	(A-coding)	1.5A	300	300	ZbAvvG	0.14	PUR	MA08FAHD06ST <u>XX</u> RB14		
08 pins	(40 0 06 30 0 07) 20 0 07)		201/			0.14	PVC	MA08FAHD08ST <u>XX</u> CB14		
oo pins	(A-coding)	1.5A	30V	30V	26AWG	0.14	PUR	MA08FAHD08ST <u>XX</u> RB14		

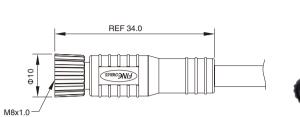
Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Straight, Plastic Nut

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA08F*P**STXXXXXX
 - * refers to coding type
 - ** refers to pins number
 - X refers to cable specification





c¶ (€ RoHS PF)



■ General information

Standard:	IEC 61076-2-104
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:	PA+GF
Seal / O-ring:	FKM

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

■ Electrical data & Mechanical data

Contacts		Rated	Voltage		Wire gauge / size		Cable jacket	Part No.
		current	A/C	D/C	AWG	mm ²	Cable Jacket	rait No.
03 pins	// - \\	3A	50V	60V	24AWG	0.25	PVC	MA08FAP03ST <u>XX</u> CB25
	(A-coding)	37		001			PUR	MA08FAP03ST <u>XX</u> RB25
04 pins	40 O ₂	3A	50V	60V	60V 24AWG 0.25	0.25	PVC	MA08FAP04ST <u>XX</u> CB25
	(A-coding)	37	300	000	244770	0.23	PUR	MA08FAP04ST <u>XX</u> RB25
05 pins	4O O2 O3 1O	(03 10) 3A	30V	30V	24AWG	0.25	PVC	MA08FBP05ST <u>XX</u> CB25
03 pins	(B-coding)						PUR	MA08FBP05ST <u>XX</u> RB25
06 pins	(30 005) 206 01	25)	.5A 30V 30V 26AWG 0.14	201/	260000	0.14	PVC	MA08FAP06ST <u>XX</u> CB14
00 pins	(A-coding)	1.5A		0.14	PUR	MA08FAP06ST <u>XX</u> RB14		
08 pins	40 0 06 30 0 07	(A-coding)	30V	30V	26AWG	0.14	PVC	MA08FAP08ST <u>XX</u> CB14
							PUR	MA08FAP08ST <u>XX</u> RB14

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Molded Cable, Straight, Shielded

• Connector series: M8

• Gender: Male • Coding: A,B

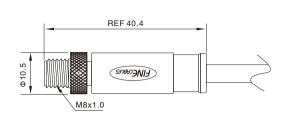
• Locking type: Fix screw • Mounting type: Straight

• Part No.: MA08MS*F**STXXXXXX

* refers to coding type

** refers to pins number

X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
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.
		current	A/C	D/C	AWG	mm ²	Cable Jacket	Part No.
03 pins	● 4 ● 1 ● 3	3A	50V	60V	24AWG	0.25	PVC	MA08MSAF03ST <u>XX</u> CB25
	(A-coding)	37.	300		ZŦAWG	0.23	PUR	MA08MSAF03ST <u>XX</u> RB25
04 pins	2 ● 4	3A	50V	60V	24AWG	0.25	PVC	MA08MSAF04ST <u>XX</u> CB25
	(A-coding)	37.	300	001	24/7/70		PUR	MA08MSAF04ST <u>XX</u> RB25
05 pins	(2 • •4 •1 • 3 •)	3A 3A 3A	30V	30V	24AWG	0.25	PVC	MA08MSBF05ST <u>XX</u> CB25
	(B-coding)						PUR	MA08MSBF05ST <u>XX</u> RB25
06 pins	(5 · · · · · · 3)	1.5A	30V	30V	26AWG	0.14	PVC	MA08MSAF06ST <u>XX</u> CB14
	(A-coding)	1.5A	300	300	ZOAVVG	0.14	PUR	MA08MSAF06ST <u>XX</u> RB14
00	66 64	1.5A	1.54	2014	264446	0.11	PVC	MA08MSAF08ST <u>XX</u> CB14
08 pins	(A-coding)	1.5А	30V	30V	26AWG	0.14	PUR	MA08MSAF08ST <u>XX</u> RB14

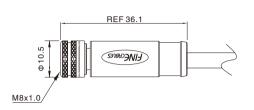
Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Straight, Shielded

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08FS*F**STXXXXXX
 - * refers to coding type
 - ** refers to pins number
 - X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	TPU; PA
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:	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.
Con	ldClS	current	A/C	D/C	AWG	mm ²	Cable Jacket	Part NO.
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FSAF03ST <u>XX</u> CB25
	(A-coding)	37	300	001	24////	0.23	PUR	MA08FSAF03ST <u>XX</u> RB25
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	PVC	MA08FSAF04ST <u>XX</u> CB25
	(A-coding)	37	300	000	244770		PUR	MA08FSAF04ST <u>XX</u> RB25
05 pins	4O O2 O3 1O	~- // I	30V	30V	24AWG	0.25	PVC	MA08FSBF05ST <u>XX</u> CB25
	(B-coding)	37	300	300	244770	0.23	PUR	MA08FSBF05ST <u>XX</u> RB25
06 pins	30 0 05 20 ⁶ 01	1.5A	30V	30V	26AWG	0.14	PVC	MA08FSAF06ST <u>XX</u> CB14
	(A-coding)	1.5A	300	300	ZOAVVG	0.14	PUR	MA08FSAF06ST <u>XX</u> RB14
08 pins	1.5A 30V 30V 26AWG 0.14	0.14	PVC	MA08FSAF08ST <u>XX</u> CB14				
oo piris	(A-coding)	1.5A	30V	30V	26AWG	0.14	PUR	MA08FSAF08ST <u>XX</u> RB14

Note: X refers to cable length

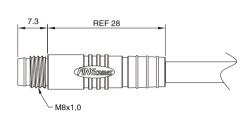
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Molded Cable, Straight, Snap-in Type

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: MA08MAI**STXXXXXX

** refers to pins number
X refers to cable specification





c**¶**us (€ RoHS ∰

■ General information

Standard:	IEC 61076-2-104
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

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Rated Voltage		Wire gauge / size		Cable jacket	Part No.	
		current	A/C	D/C	AWG	mm ²	Cable Jacket	rait NO.
03 pins	(**) 3A 50V 60V 24AWG 0.25	G 0.25	PVC	MA08MAI03ST <u>XX</u> CB25				
03 pm3	(A-coding)	34	300	000	24AVVG	0.25	PUR	MA08MAI03ST <u>XX</u> RB25
04 pins	2 • 4	3A	501/	60V	24AWG	0.25	PVC	MA08MAI04ST <u>XX</u> CB25
оч ріпз	(A-coding)	j jA	50V 60°	000	Z4AVVG	0.25	PUR	MA08MAI04ST <u>XX</u> RB25

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Straight, Snap-in Type

• Connector series: M8

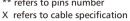
• Gender: Female

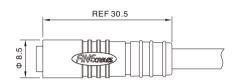
• Coding: A

• Locking type: Snap-in • Mounting type: Straight

• Part No.: MA08FAI**STXXXXXX

** refers to pins number











■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ +80°C(fixed installation)
	-20°C ~ +80°C(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Rated Voltage		tage	Wire gau	uge / size	Cable jacket	Part No.
Con	Contacts		A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FAI03ST <u>XX</u> CB25
	(A-coding)	Z4AVV	0.23	PUR	MA08FAI03ST <u>XX</u> RB25			
04 pins	(40 O ₂)	1 // W 1	30 500	60V	24AWG	0.25	PVC	MA08FAI04ST <u>XX</u> CB25
o - pins	(A-coding)	j JA	300	000	Z4AVVG	0.23	PUR	MA08FAI04ST <u>XX</u> RB25

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Molded Cable, Angled

• Connector series: M8

• Gender: Male • Coding: A,B

• Locking type: Fix screw

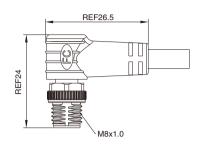
• Mounting type: Right angled

• Part No.: MA08M*HD**RAXXXXXX

* refers to coding type

** refers to pins number

X refers to cable specification





c**¶**us (€ RoHS ∰



■ General information

Standard:	IEC 61076-2-104
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:	Zinc alloy 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

Con	Contacts		Volt	tage	Wire gauge / size		Cable jacket	Part No.
Con	lacis	current	A/C	D/C	AWG	mm ²	Cable Jacket	Part No.
03 pins	● 4 ● 1 ● 3	3A	50V	60V	24AWG	0.25	PVC	MA08MAHD03RA <u>XX</u> CB25
	(A-coding)	34	300	000	244770	0.23	PUR	MA08MAHD03RA <u>XX</u> RB25
04 pins	2 ● 4	3A	50V	60V	24AWG	0.25	PVC	MA08MAHD04RA <u>XX</u> CB25
	(A-coding)	34	300	000	244770		PUR	MA08MAHD04RA <u>XX</u> RB25
05 pins	2	® 4 3 ®	3A 30V	30V	24AWG	0.25	PVC	MA08MBHD05RA <u>XX</u> CB25
	(B-coding)	34	300	300	244770	0.23	PUR	MA08MBHD05RA <u>XX</u> RB25
06 pins	(5 · · · · · 3)	1.5A	30V	30V	26AWG	0.14	PVC	MA08MAHD06RA <u>XX</u> CB14
00 pins	(A-coding)	1.5A	300	300	ZOAVVG	0.14	PUR	MA08MAHD06RA <u>XX</u> RB14
08 pins	66 64 70 9 33	1.54	201/	30V	264446	0.11	PVC	MA08MAHD08RA <u>XX</u> CB14
oo piris	(A-coding)	1.5A	30V	300	26AWG	0.14	PUR	MA08MAHD08RA <u>XX</u> RB14

^{*06} Pin,08 Pin with different overmold from above other pins

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Angled

• Connector series: M8

• Gender: Female

• Coding: A,B

• Locking type: Fix screw

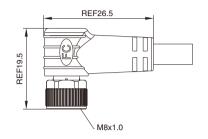
• Mounting type: Right angled

• Part No.: MA08F*HD**RAXXXXXX

* refers to coding type

** refers to pins number

X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ +80 °C(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy 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

Con	Contacts		Voltage		Wire gauge / size		Cable jacket	Part No.
Con	ldClS	current	A/C	D/C	AWG	mm ²	Cable Jacket	Part NO.
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FAHD03RA <u>XX</u> CB25
	(A-coding)	37	300	001	24/7/70	0.23	PUR	MA08FAHD03RA <u>XX</u> RB25
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	PVC	MA08FAHD04RA <u>XX</u> CB25
	(A-coding)	37	300	001	24/7/70		PUR	MA08FAHD04RA <u>XX</u> RB25
05 pins	4O O2 O3 1O	//	30V	30V	24AWG	0.25	PVC	MA08FBHD05RA <u>XX</u> CB25
	(B-coding)	37	300	300	ZHAVVO	0.23	PUR	MA08FBHD05RA <u>XX</u> RB25
06 pins	30 0 05 20 ⁶ 01	1.5A	30V	30V	26AWG	0.14	PVC	MA08FAHD06RA <u>XX</u> CB14
	(A-coding)	1.5A	300	300	ZOAVVG	0.14	PUR	MA08FAHD06RA <u>XX</u> RB14
08 pins	40 06 30 0 07 20 8 01	1.5A	30V	30V	26AWG		PVC	MA08FAHD08RA <u>XX</u> CB14
oo piris	(A-coding)	1.5А	300	300	ZOAVVG	0.14	PUR	MA08FAHD08RA <u>XX</u> RB14

^{*06} Pin,08 Pin with different overmold from above other pins

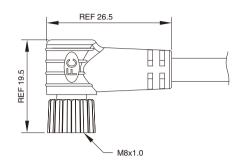
Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Angled, Plastic Nut

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MA08F*P**RAXXXXXX
 - * refers to coding type
 - ** refers to pins number
 - X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ $+80$ °C(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	PA+GF
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

Con	Contacts		Voltage		Wire gauge / size		Cable jacket	Part No.
Con	lacis	current	A/C	D/C	AWG	mm ²	Cable Jacket	Part NO.
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FAP03RA <u>XX</u> CB25
	(A-coding)	37	300	001	24/7/70	0.23	PUR	MA08FAP03RA <u>XX</u> RB25
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	PVC	MA08FAP04RA <u>XX</u> CB25
<u></u>	(A-coding)	37	300	000	ZHAVVO		PUR	MA08FAP04RA <u>XX</u> RB25
05 pins	4O O2 O3 1O	3A	30V	30V	24AWG	0.25	PVC	MA08FBP05RA <u>XX</u> CB25
03 pm3	(B-coding)	34	300	300	ZHAVVO		PUR	MA08FBP05RA <u>XX</u> RB25
06 pins	(30 0 05) 20 ⁶ 01	1.5A	30V	30V	26AWG	0.14	PVC	MA08FAP06RA <u>XX</u> CB14
00 pins	(A-coding)	1.5A	300	300	ZOAVVG		PUR	MA08FAP06RA <u>XX</u> RB14
08 pins	poins $\begin{pmatrix} \sqrt{0} & \sqrt{0} &$	0.14	PVC	MA08FAP08RA <u>XX</u> CB14				
oo pins	(A-coding)	1.5A	30V	30V	26AWG	0.14	PUR	MA08FAP08RAXXRB14

^{*06} Pin,08 Pin with different overmold from above other pins

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Molded Cable, Angled, Shielded

• Connector series: M8

• Gender: Male • Coding: A,B

• Locking type: Fix screw

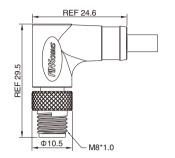
• Mounting type: Right angled

• Part No.: MA08MS*F**RAXXXXXX

* refers to coding type

** refers to pins number

X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
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(not 360° shielded)
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	Contacts Rat		Volt	Voltage		Wire gauge / size		Part No.
Con	lacis	current	A/C	D/C	AWG	mm ²	Cable jacket	Part NO.
03 pins	● 4 ● 1 ● 3	3A	50V	60V	24AWG	0.25	PVC	MA08MSAF03RA <u>XX</u> CB25
	(A-coding)	37	300	001	24////	0.23	PUR	MA08MSAF03RA <u>XX</u> RB25
04 pins	2 ● 4	3A	50V	60V	24AWG	0.25	PVC	MA08MSAF04RA <u>XX</u> CB25
	(A-coding)	37	300	001	24////		PUR	MA08MSAF04RA <u>XX</u> RB25
05 pins	2 • •4 •1 5 3 •	3 .	30V	30V	24AWG	0.25	PVC	MA08MSBF05RA <u>XX</u> CB25
	(B-coding)	37	300	300	24////		PUR	MA08MSBF05RA <u>XX</u> RB25
06 pins	(50 0 03) 10 6 02	1.5A	30V	30V	26AWG	0.14	PVC	MA08MSAF06RA <u>XX</u> CB14
	(A-coding)	1.JA	300	300	ZOAVVG	0.14	PUR	MA08MSAF06RA <u>XX</u> RB14
08 pins	6 • • 4 7 • • • 3	1.5A	30V	30V	26AWG		PVC	MA08MSAF08RA <u>XX</u> CB14
oo piris	(A-coding)	1.5A	300	300	ZOAVVG	0.14	PUR	MA08MSAF08RA <u>XX</u> RB14

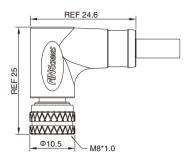
Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Angled, Shielded

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08FS*F**RAXXXXXX
 - * refers to coding type
 - ** refers to pins number
 - X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20° C ~ $+80^{\circ}$ C(flexible installation)
Connector insert:	TPU; PA
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:	Available(not 360° shielded)
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	Contacts		Voltage		Wire gauge / size		Cable jacket	Part No.
Con	ldClS	current	A/C	D/C	AWG	mm ²	Cable Jacket	Part NO.
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FSAF03RA <u>XX</u> CB25
	(A-coding)	37	300	001	24/7/70	0.23	PUR	MA08FSAF03RA <u>XX</u> RB25
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	PVC	MA08FSAF04RA <u>XX</u> CB25
	(A-coding)	37	300	001	24/7/70		PUR	MA08FSAF04RA <u>XX</u> RB25
05 pins	4O O2 O3 1O	//	30V	30V	24AWG	0.25	PVC	MA08FSBF05RA <u>XX</u> CB25
	(B-coding)	37	300	300	ZHAVVO	0.23	PUR	MA08FSBF05RA <u>XX</u> RB25
06 pins	30 0 05 20 ⁶ 01	1.5A	30V	30V	26AWG	0.14	PVC	MA08FSAF06RA <u>XX</u> CB14
	(A-coding)	1.5A	300	300	ZOAVVG		PUR	MA08FSAF06RA <u>XX</u> RB14
08 pins	(1.5A) 30V 30V 26AWG 0.14	0.14	PVC	MA08FSAF08RA <u>XX</u> CB14				
oo piris	(A-coding)	1.5A	30V	30V	26AWG	0.14	PUR	MA08FSAF08RAXXRB14

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Molded Cable, Angled, Snap-in Type

• Connector series: M8

• Gender: Male • Coding: A

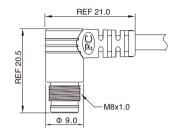
• Locking type: Snap-in

• Mounting type: Right angled

• Part No.: MA08MAI**RAXXXXXX

** refers to pins number

X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
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

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	Rated	Voltage		Wire gauge / size		Cable jacket	Part No.
Con	ldClS	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	● 4 ● 1 ● 3	3A	50V	60V	24AWG	0.25	PVC	MA08MAI03RA <u>XX</u> CB25
03 pm3	(A-coding)	34	300	000	Z4AVV	0.25	PUR	MA08MAI03RA <u>XX</u> RB25
04 pins	2 • 4	3A	50V	60V	24AWG	0.25	PVC	MA08MAI04RA <u>XX</u> CB25
υ μπι	(A-coding)	j JA	300	000	Z4AVVG	0.25	PUR	MA08MAI04RA <u>XX</u> RB25

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Angled, Snap-in Type

• Connector series: M8

• Gender: Female

• Coding: A

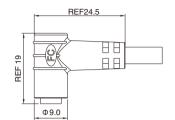
• Locking type: Snap-in

• Mounting type: Right angled

• Part No.: MA08FAI**RAXXXXXX

** refers to pins number

X refers to cable specification





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■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ +80°C(fixed installation)
	-20°C ~ +80°C(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	Contacts		Voltage		Wire gau	uge / size	Cable jacket	Part No.
Con	ldClS	current	rrent A/C D/C		AWG	mm ²	Cable Jacket	rait No.
03 pins	40 30 10	3A	50V	60V	24AWG	0.25	PVC	MA08FAI03RA <u>XX</u> CB25
05 pins	(A-coding)	34	300	000	Z4AVVG		PUR	MA08FAI03RA <u>XX</u> RB25
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	PVC	MA08FAI04RA <u>XX</u> CB25
о-г ріпіз	(A-coding)	J JA	300	000	Z4AVVG		PUR	MA08FAI04RA <u>XX</u> RB25

Note: \underline{X} refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Molded Cable, Angled, with LED Indicator

• Connector series: M8

• Gender: Female

Coding: A

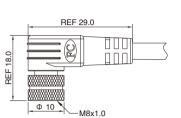
• Locking type: Fix screw

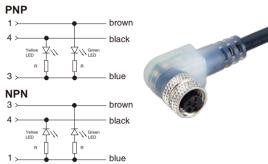
• Mounting type: Right angled

• Part No.: MA08LPAF**RAXXXXX(PNP) MA08LNAF**RAXXXXXX(NPN)

** refers to pins number

X refers to cable specification









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40°C ~ $+80$ °C(fixed installation)
	-20°C ~ +80°C(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent 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

Con	tacts	Rated	Volt	tage	Wire gau	uge / size	Cable jacket	Part No.		
Con	ldClS	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.		
03 pins	40 30 10	3A	50V	60V	601/	24AWG	0.25	D\/C	MA08LPAF03RA <u>XX</u> CB25(PNP) MA08LPAF03RA <u>XX</u> RB25(PNP)	
03 pilis	(A-coding)	34	300	000	Z4AVV	0.25	PUR	MA08LNAF03RA <u>XX</u> CB25(NPN) MA08LNAF03RA <u>XX</u> RB25(NPN)		
04 pins	40 O ₂	3A	50V	60V	24AWG	0.25	D\/C	MA08LPAF04RA <u>XX</u> CB25(PNP) MA08LPAF04RA <u>XX</u> RB25(PNP)		
оч ріпз	(A-coding)	3A	300	600		Z4AVVG	24AVVG	24AWG	0.25	PUR

Note: X refers to cable length

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



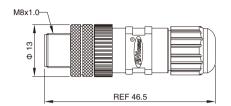
M8 Male Field Wirable Assembly, Straight, Solder

• Connector series: M8

• Gender: Male • Coding: A,B

• Locking type: Fix screw • Mounting type: Straight • Part No.: MB08MA*FF**ST

* refers to coding type









■ General information

brass with flicker plated
Brass with nickel plated
Brass with gold plated
TPU; PA
-25 ℃ ~ +90 ℃
IEC 61076-2-104

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.5~5.0mm
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Voltage		Wire gauge / size		Cable jacket	Part No.
		termination	current	A/C	D/C	AWG	mm²	,	
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PUR / PVC	MB08MAAFF03ST
04 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PUR / PVC	MB08MAAFF04ST
05 pins	(B-coding)	Solder version	3A	30V	30V	24AWG	0.25	PUR / PVC	MB08MABFF05ST
06 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PUR / PVC	MB08MAAFF06ST
08 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PUR / PVC	MB08MAAFF08ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.

^{**} refers to pins number



M8 Female Field Wirable Assembly, Straight, Solder

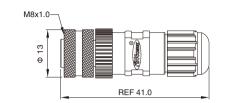
• Connector series: M8

• Gender: Female

• Coding: A,B

• Locking type: Fix screw • Mounting type: Straight • Part No.: MB08FA*FF**ST

* refers to coding type









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-25 ℃ ~ +90 ℃
Connector insert/body:	TPU; 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
Suitable cable Dia:	3.5~5.0mm
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Volt	tage	Wire gauge / size		Cable jacket	Part No.
Con	ldClS	termination	current	A/C	D/C	AWG	mm ²	Cable Jacket	Part NO.
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PUR / PVC	MB08FAAFF03ST
04 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PUR / PVC	MB08FAAFF04ST
05 pins	(B-coding)	Solder version	3A	30V	30V	24AWG	0.25	PUR / PVC	MB08FABFF05ST
06 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PUR / PVC	MB08FAAFF06ST
08 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PUR / PVC	MB08FAAFF08ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.

^{**} refers to pins number



M8 Male Field Wirable Assembly, Straight, Screw joint, Shielded

• Connector series: M8

• Gender: Male • Coding: A

• Locking type: Fix screw

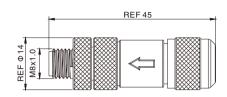
• Mounting type: Straight

• Part No.: MB08MWSAFF**ST-A MB08MWSAFF**ST-B

** refers to pins number

- suitable cable Dia: A: 3.5~4.5mm

B: 4.5~5.5mm









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-25 ℃ ~ +90 ℃
Connector insert/body:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A: 3.5~4.5mm, B: 4.5~5.5mm
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Volt	tage	Wire gau	uge / size	David Nila
		termination	current	A/C	D/C	AWG	mm²	Part No.
03 pins	(A-coding)	Screw joint	ЗА	50V	60V	24AWG	0.25	MB08MWSAFF03ST-A MB08MWSAFF03ST-B
04 pins	2 • 4 • 1 3 • (A-coding)	Screw joint	3A	50V	60V	24AWG	0.25	MB08MWSAFF04ST-A MB08MWSAFF04ST-B

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Field Wirable Assembly, Straight, Screw joint, Shielded

• Connector series: M8

• Gender: Female

• Coding: A

• Locking type: Fix screw

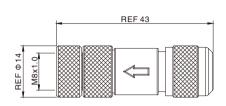
• Mounting type: Straight

• Part No.: MB08FWSAFF**ST-A MB08FWSAFF**ST-B

** refers to pins number

- suitable cable Dia: A: 3.5~4.5mm

B: 4.5~5.5mm









■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-25 ℃ ~ +90 ℃
Connector insert/body:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A: 3.5~4.5mm, B: 4.5~5.5mm
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Volt	tage	Wire gau	uge / size	Part No.	
	Com	lacis	termination	current	A/C	D/C	AWG	mm²	Part NO.
	03 pins	(A-coding)	Screw joint	3A	50V	60V	24AWG	0.25	MB08FWSAFF03ST-A MB08FWSAFF03ST-B
	04 pins	(A-coding)	Screw joint	3A	50V	60V	24AWG	0.25	MB08FWSAFF04ST-A MB08FWSAFF04ST-B

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Panel Mount, Solder, Front fastened

• Connector series: M8

• Gender: Male

• Coding: A,B

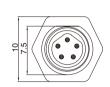
Locking type: Fix screw

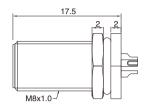
• Mounting type: Front fastened

• Part No.: MB08MS*FF**ST

* refers to coding type

** 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:	TPU
Ambient temperature:	-25 ℃ ~ +90 ℃
Standard:	IEC 61076-2-104

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	acts contacts nated.		Wire gau	Wire gauge / size Wire AWG mm² insulation		Part No.		
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSAFF03ST
04 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSAFF04ST
05 pins	(B-coding)	Solder version	3A	30V	30V	24AWG	0.25	PVC wire or customized	MB08MSBFF05ST
06 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08MSAFF06ST
08 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08MSAFF08ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Panel Mount, Solder, Front fastened

• Connector series: M8

• Gender: Female

• Coding: A,B

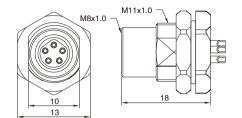
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB08FS*FF**ST

* refers to coding type

** refers to pins number









■ General information

d

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
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	mm ²	insulation	Part NO.
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08FSAFF03ST
04 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08FSAFF04ST
05 pins	(B-coding)	Solder version	3A	30V	30V	24AWG	0.25	PVC wire or customized	MB08FSBFF05ST
06 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08FSAFF06ST
08 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08FSAFF08ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Panel Mount, Solder, Rear fastened

• Connector series: M8

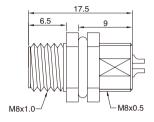
Gender: MaleCoding: A,B

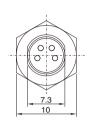
Locking type: Fix screwMounting type: Rear fastened

• Part No.: MB08MS*RF**ST

* refers to coding type

** 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:	TPU
Ambient temperature:	-25 ℃ ~ +90 ℃
Standard:	IEC 61076-2-104

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Voltage			uge / size	Wire	Part No.
		termination	current	A/C	D/C	AWG	mm ²	insulation	
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSARF03ST
04 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSARF04ST
05 pins	(B-coding)	Solder version	3A	30V	30V	24AWG	0.25	PVC wire or customized	MB08MSBRF05ST
06 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08MSARF06ST
08 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08MSARF08ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Female Panel Mount, Solder, Rear fastened

• Connector series: M8

• Gender: Female

• Coding: A,B

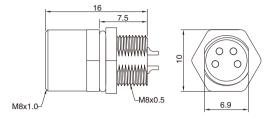
• Locking type: Fix screw

• Mounting type: Rear fastened

• Part No.: MB08FS*RF**ST

* refers to coding type

** refers to pins number











■ General information

IEC 61076-2-104
-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
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Volt	tage	Wire gau	uge / size	Wire	Part No.
Con	ldClS	termination	current	A/C	D/C	AWG	mm²	insulation	Part NO.
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08FSARF03ST
04 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08FSARF04ST
05 pins	(B-coding)	Solder version	3A	30V	30V	24AWG	0.25	PVC wire or customized	MB08FSBRF05ST
06 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08FSARF06ST
08 pins	(A-coding)	Solder version	1.5A	30V	30V	26AWG	0.14	PVC wire or customized	MB08FSARF08ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Panel Mount, Solder, Front fastened

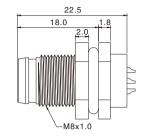
• Connector series: M8

Gender: MaleCoding: A

• Locking type: Snap-in

• Mounting type: Front fastened

• Part No.: MB08MSAFI**ST







■ General information

IEC 61076-2-104
-25 °C ~ +90 °C
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
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	Contacts		Rated	Volt	tage	Wire gau	uge / size	Wire	Part No.
Con			current	A/C	D/C	AWG mm²		insulation	Part NO.
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSAFI03ST
04 pins	(A-coding)	Solder version	ЗА	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSAFI04ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.

^{**} refers to pins number



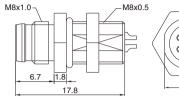
M8 Male Panel Mount, Solder, Rear fastened

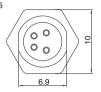
• Connector series: M8

• Gender: Male • Coding: A

• Locking type: Snap-in • Mounting type: Rear fastened • Part No.: MB08MSARI**ST

** refers to pins number







c**¶**us (€ RoHS ∰



■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-25 °C ~ +90 °C
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts Rated		Voltage		Wire gauge / size		Wire	Part No.
Con	Contacts		current	A/C D/C		AWG	mm ²	insulation	rait NO.
03 pins	(A-coding)	Solder version	3A	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSARI03ST
04 pins	2 • • 4 • • • • • • • • • • • • • • • •	Solder version	ЗА	50V	60V	24AWG	0.25	PVC wire or customized	MB08MSARI04ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



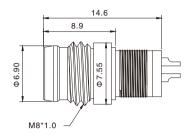
M8 Male Panel Mount, Solder, with LED indicator

• Connector series: M8

• Gender: Male • Coding: A

• Locking type: Snap-in • Mounting type: Front fastened

• Part No.: MB08MDAFI04ST













■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-40 °C ~ + 80 °C
Connector insert:	PC
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition/
	IP65 snap-in
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts termination	Rated current		age		uge / size	Wire insulation	Part No.
		terrimation	Cullent	A/C	D/C	AWG	mmf	IIISulation	
04 pins + LED(red)	(A-coding)	Solder version	4A	10~30V	10~30V	24AWG	0.25	PVC wire or customized	MB08MDAFI04ST

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 22 for products' part number encoding rule.



M8 Male Panel Mount, PCB Type, Front fastened

• Connector series: M8

• Gender: Male • Coding: A,B

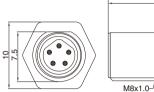
• Locking type: Fix screw

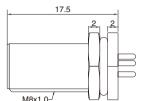
• Mounting type: Front fastened

• Part No.: MB08MB*FF**ST

* refers to coding type

** refers to pins number











■ General information

Standard:	IEC 61076-2-104
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:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
PCB layout:	Refer to page 61
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

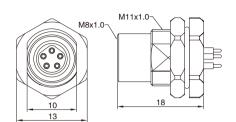
Can	tacts	Contacts Rated Voltage		Part No.		
Con	lacis	termination	current	A/C	D/C	Part NO.
03 pins	(A-coding)	PCB version	3A	50V	60V	MB08MBAFF03ST
04 pins	(A-coding)	PCB version	ЗА	50V	60V	MB08MBAFF04ST
05 pins	(B-coding)	PCB version	3A	30V	30V	MB08MBBFF05ST
06 pins	(A-coding)	PCB version	1.5A	30V	30V	MB08MBAFF06ST
08 pins	(A-coding)	PCB version	1.5A	30V	30V	MB08MBAFF08ST

■ Remarks



M8 Female Panel Mount, PCB Type, Front fastened

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08FB*FF**ST
 - * refers to coding type
 - ** refers to pins number









■ General information

Brass with nickel plated
Brass with gold plated
TPU
-25 ℃ ~ +90 ℃
IEC 61076-2-104

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
PCB layout:	Refer to page 61
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Volt	Part No.	
Con	itacts	termination	current A/C D/C		Tartivo.	
03 pins	(A-coding)	PCB version	ЗА	50V	60V	MB08FBAFF03ST
04 pins	(A-coding)	PCB version	3A	50V	60V	MB08FBAFF04ST
05 pins	(B-coding)	PCB version	3A	30V	30V	MB08FBBFF05ST
06 pins	(A-coding)	PCB version	1.5A	30V	30V	MB08FBAFF06ST
08 pins	(A-coding)	PCB version	1.5A	30V	30V	MB08FBAFF08ST

■ Remarks



M8 Male Panel Mount, PCB Type, Front fastened

• Connector series: M8

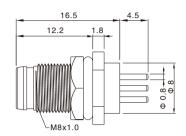
• Gender: Male • Coding: A

• Locking type: Snap-in

• Mounting type: Front fastened

• Part No.: MB08MBAFI**ST

** refers to pins number









■ General information

Standard:	IEC 61076-2-104
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:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
PCB layout:	Refer to page 61
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts Rated	Voltage		Part No.		
	LOTITACIS	termination current		A/C D/C		Tart No.	
03 pins	(A-coding)	PCB version	ЗА	50V	60V	MB08MBAFI03ST	
04 pins	(A-coding)	PCB version	3A	50V	60V	MB08MBAFI04ST	

■ Remarks



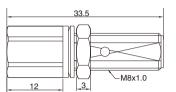
M8 Male to Female Panel Mount

• Connector series: M8 • Gender: Male/female

• Coding: A,B

• Locking type: Fix screw • Mounting type: Straight • Part No.: MT-004~006









(€ RoHS (PST)



■ General information

IEC 61076-2-104
-25 °C ~ +90 °C
TPU / PA+GF
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
Panel cut-out:	Refer to page 62
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Rated	Voltage		Part No.	
		current	A/C	D/C	rait NO.	
03 pins (A-coding)	(Male)	(Female)	ЗА	50V	60V	MT-004
04 pins (A-coding)	(Male)	40 0 ₂ 0 _{3 1} 0 (Female)	ЗА	50V	60V	MT-005
05 pins (B-coding)	(Male)	(Female)	ЗА	30V	30V	MT-006



M8 Male Panel Mount, Angled, PCB Type, Front fastened, Shielded

• Connector series: M8

• Gender: Male • Coding: A,B

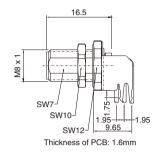
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB08MBS*FF**RA

* refers to coding type

** refers to pins number









■ General information

IEC 61076-2-104
-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
Panel cut-out:	Refer to page 62
PCB layout:	Refer to page 61
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Voltage		Part No.
		termination current		A/C	D/C	rait NO.
03 pins	(A-coding)	PCB version	3A	50V	60V	MB08MBSAFF03RA
04 pins	(A-coding)	PCB version	3A	50V	60V	MB08MBSAFF04RA
05 pins	(B-coding)	PCB version	3A	30V	30V	MB08MBSBFF05RA

■ Remarks



M8 Female Panel Mount, Angled, PCB Type, Front fastened, Shielded

• Connector series: M8

• Gender: Female

• Coding: A,B

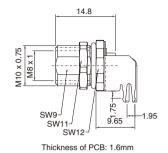
• Locking type: Fix screw

• Mounting type: Front fastened

• Part No.: MB08FBS*FF**RA

* refers to coding type

** refers to pins number









■ General information

Brass with nickel plated
Brass with gold plated
PA+GF
-25 ℃ ~ +90 ℃
IEC 61076-2-104

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 62
PCB layout:	Refer to page 61
Mating endurance:	>500 cycles

■ Electrical data & Mechanical data

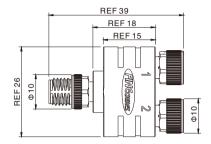
Contacts			Rated	Voltage		Part No.
		termination current		A/C	D/C	Part NO.
03 pins	(A-coding)	PCB version	ЗА	50V	60V	MB08FBSAFF03RA
04 pins	(A-coding)	PCB version	3A	50V	60V	MB08FBSAFF04RA
05 pins	(B-coding)	PCB version	3A	30V	30V	MB08FBSBFF05RA

■ Remarks



M8 Y-Splitter, Male-2*Female

- Connector series: M8
- Gender: Female & Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Y-Type
- Part No.: MT-043~045





(€ RoHS (PST)



■ General information

Ambient temperature:	-20 °C ~ +80 °C
Connector insert:	PA+GF/TPU
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Innermold:	PP
Overrmold:	PVC
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

	Contacts Wire List		Rated	Voltage		Part No.
	Contacts	VVIIC LIST	current	A/C	D/C	Ture No.
03 pins (A-coding)	(Male) (Female)	Male 1 3 4 1 3 4 4 3 1 1 3 4 Female(1) Female(2)	ЗА	50V	60V	MT-043
04 pins (A-coding)	(Male) (Female)	Male 1 2 3 4 1 2 3 4 4 3 2 1 1 2 3 4 Female(1) Female(2)	ЗА	50V	60V	MT-044
05 pins (B-coding)	(Male) (Female)	Male 1 2 3 4 5 5 4 3 2 1 1 2 3 4 5 Female(1) Female(2)	3A	30V	30V	MT-045

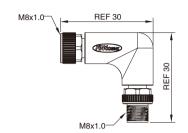


M8 L-Adapter, Male-Female

Connector series: M8Gender: Female & Male

• Coding: A,B

Locking type: Fix screwMounting type: Right angledPart No.: MT-046~048





(€ RoHS (PST)

■ General information

Standard:	IEC 61076-2-104
Ambient temperature:	-20 ℃ ~ +80 ℃
Connector insert:	TPU/PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy 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

	Contacts Wire List		Rated	Voltage		Part No.	
	Contacts	VVIIC LIST	current	A/C	D/C	Turcito.	
03 pins (A-coding)	(Male) (Female)	Male Female 1	ЗА	50V	60V	MT-046	
04 pins (A-coding)	(Male) (Female)	Male Female 1	ЗА	50V	60V	MT-047	
05 pins (B-coding)	(Male) (Female)	Male Female 1	3A	30V	30V	MT-048	



M8 Male Terminator, Straight, with LED Indicator

• Connector series: M8

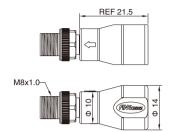
• Gender: Male • Coding: A,B

• Locking type: Fix screw • Mounting type: Straight

• Part No.: MA08M*HD**ST-LED

* refers to coding type

** refers to pins number









■ General information

Ambient temperature:	-20 ℃ ~ +80 ℃
Connector insert:	TPU + GF
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Coupling nut/screw:	Zinc alloy 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

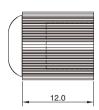
Con	tacts	Rated Voltage		Part No.	
Con	ldClS	current			Part NO.
03 pins	(A-coding)	ЗА	50V	60V	MA08MAHD03ST-LED
04 pins	(A-coding)	ЗА	50V	60V	MA08MAHD04ST-LED
05 pins	(B-coding)	ЗА	30V	30V	MA08MBHD05ST-LED

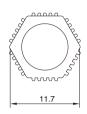
■ Remarks



M8 Protection Cap for Male Snap in Connector

Connector series: M8
Gender: for Male
Locking type: Fix screw
Part No.: PCNM8x1.0-1





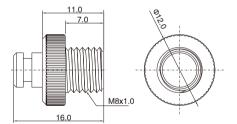


■ General information

Material:	PA+GF
O-ring:	FKM
Color:	Black
Degree of protection:	IP67 in locked condition

M8 Protection Cap for Female Connector

Connector series: M8
Gender: for Female
Locking type: Fix screw
Part No.: PCSM8x1.0-1





■ General information

Material:	PA+GF
Color:	Black
Degree of protection:	IP67 in locked condition



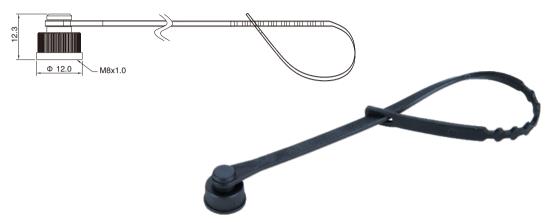
M8 Protection Cap for Male Molded Cable Connector

• Connector series: M8

• Gender: for Male

• Locking type: Fix screw

• Part No.: PCNM8x1.0-2



■ General information

Material:	PA+GF
Gasket:	FKM
Loop:	TPU
Color:	Black
Degree of protection:	IP67 in locked condition

M8 Protection Cap for Female Molded Cable Connector

• Connector series: M8

• Gender: for Female

• Locking type: Fix screw

• Part No.: PCSM8x1.0-2



■ General information

Material:	PA+GF
Loop:	TPU
Color:	Black
Degree of protection:	IP67 in locked condition



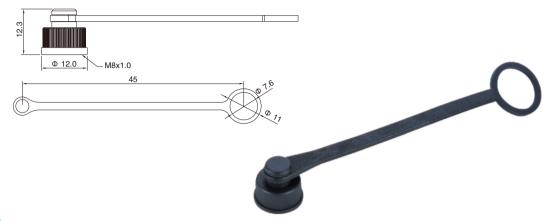
M8 Protection Cap for Male Panel-mount Connector

• Connector series: M8

• Gender: for Male

• Locking type: Fix screw

• Part No.: PCNM8x1.0-3



■ General information

Material:	PA+GF
Gasket:	FKM
Loop:	TPU
Color:	Black
Degree of protection:	IP67 in locked condition

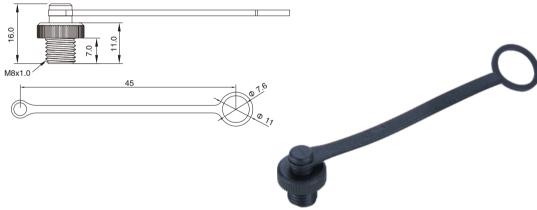
M8 Protection Cap for Female Panel-mount Connector

• Connector series: M8

• Gender: for Female

• Locking type: Fix screw

• Part No.: PCSM8x1.0-3



■ General information

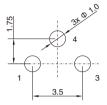
Material:	PA+GF
Loop:	TPU
Color:	Black
Degree of protection:	IP67 in locked condition

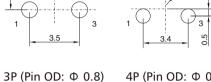


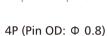
M8 PCB Layout & Panel Cut-out

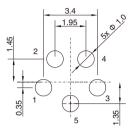
■ PCB Layout

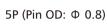
M8 Male Connector

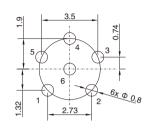


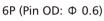


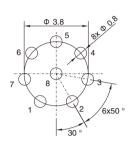








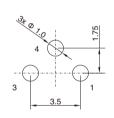


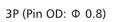


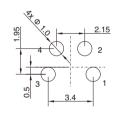
8P (Pin OD: Φ 0.6)

Recommended PCB layout

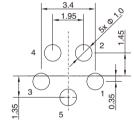
M8 Female Connector



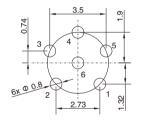




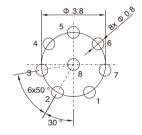
4P (Pin OD: Φ 0.8)



5P (Pin OD: Φ 0.8)



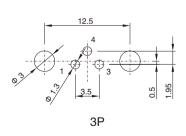
6P (Pin OD: Φ 0.6)

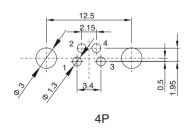


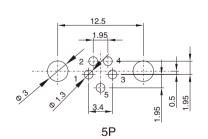
8P (Pin OD: Φ 0.6)

Recommended PCB layout

M8 Male Right Angled Connector







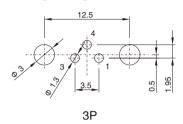
Recommended PCB layout

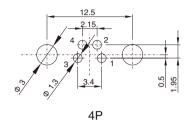


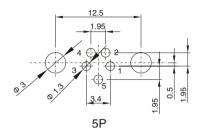
M8 PCB Layout & Panel Cut-out

■ PCB Layout

M8 Female Right Angled Connector

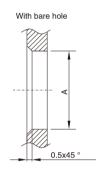


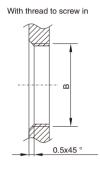




Recommended PCB layout

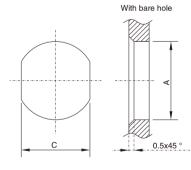
■ Panel Cut-out Dimensions

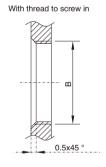




	Α	В
M8	8.0 ^{+0.1}	M8x0.5
M8	8.0 ^{+0.1}	M8x1.0
M11	11.0+0.1	M11x1.0

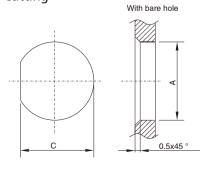
H-cutting

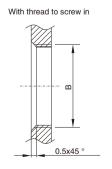




	Α	В	С
M8	8.0 ^{+0.1}	M8x0.5	$7.1^{+0.1}_{-0}$
M8	8.0 ^{+0.1}	M8x0.5	$7.4_{-0}^{+0.1}$
M8	8.0 ^{+0.1}	M8x1.0	$7.1^{+0.1}_{-0}$
M10	10.0+0.1	M10x0.75	$9.1^{+0.1}_{-0}$
M11	11.0+0.1	M11x1.0	10.1+0.1

D-cutting





		Α	В	С
Ī	M8	8.0 +0.1	M8x1.0	7.6+0.1