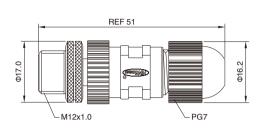




# M12 Male Field Wirable Assembly, Straight, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MA\*FF\*\*ST
  - \* refers to coding type
  - \*\* refers to pins number









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Comtosto		Available	e Coding		Contacts	Contacts Rated		Voltage		Wire gauge / size		Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm²	jacket	Part No.
03 pins	4 ( ) ( )	4® ®3	PE® 2® ®3 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MAAFF03ST MB12MABFF03ST MB12MACFF03ST
04 pins	4® ®3	4® ®3 1® ®2	PE⊕ 1⊕ ⊕3 ⊕2 (3+PE)	4 · · · · 3 · · · · · · · · · · · · · ·	Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MAAFF04ST MB12MABFF04ST MB12MACFF04ST MB12MADFF04ST
05 pins	4 @ @3 @5 1 @ @2	4	PE 4⊕ ⊕2 5⊕ ⊕1 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR/PVC or customized	MB12MAAFF05ST MB12MABFF05ST MB12MACFF05ST
06 pins			PE (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MACFF05ST
08 pins	66				Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MAAFF05ST
12 pins	70 0 05 80 0 04 90 20 103 10 1002				Solder version	1.5A	30V	30V	26AWG	0.14	PUR/PVC or customized	MB12MAAFF05ST

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

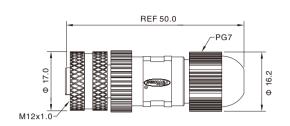






# M12 Female Field Wirable Assembly, Straight, Solder

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FA\*FF\*\*ST
  - \* refers to coding type
  - \*\* refers to pins number









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Ctt-		Available	e Coding		Contacts	Rated	Volt	tage	Wire gau	ge / size	Cable	Down No.
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	jacket	Part No.
03 pins	30 04	30 04 01	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF03ST MB12FABFF03ST MB12FACFF03ST
04 pins	30 04	30 04 20 01	(3+PE)	30 0 <sup>4</sup> 20 01	Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF04ST MB12FABFF04ST MB12FACFF04ST MB12FADFF04ST
05 pins	30 04 05 20 01	30 04 05 20 01	20 04 10 05 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR/PVC or customized	MB12FAAFF05ST MB12FABFF05ST MB12FACFF05ST
06 pins			PE 20 0 04 10 05 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FACFF05ST
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FAAFF05ST
12 pins	\$50007 \$00000 \$3010100 \$201001				Solder version	1.5A	30V	30V	26AWG	0.14	PUR/PVC or customized	MB12FAAFF05ST

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







# M12 Male Field Wirable Assembly, Angled, Solder

• Connector series: M12

• Gender: Male

• Coding: A,B,C,D

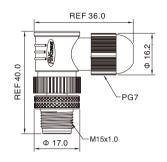
• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MB12MA\*FF\*\*RA

\* refers to coding type

\*\* refers to pins number









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 282
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts		Available	e Coding		Contacts	Rated	Volt	age	Wire gaug	ge / size	Cable	Part No.
Contacts	Α	В	С	D	termination	current	A/C	D/C	AWG	mm <sup>2</sup>	jacket	rait No.
03 pins	4 9 93	4 @ @3	(2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC or customized	MB12MAAFF03RA MB12MABFF03RA MB12MACFF03RA
04 pins	48 83	4 ® ® 3 1 ® @ 2	PE⊕ 1⊕ ⊕3 ⊕2 (3+PE)	4	Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC or customized	MB12MAAFF04RA MB12MABFF04RA MB12MACFF04RA MB12MADFF04RA
05 pins	40 03 05 10 02	4	PE (4⊕ ⊕2 5⊕ ⊕1 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC or customized	MB12MAAFF05RA MB12MABFF05RA MB12MACFF05RA
06 pins			PE (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR / PVC or customized	MB12MACFF05RA
08 pins	(60 5 04) (70 0 03) (8 8 02)				Solder version	2A	30V	30V	24AWG	0.25	PUR / PVC or customized	MB12MAAFF05RA

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







# M12 Female Field Wirable Assembly, Angled, Solder

• Connector series: M12

• Gender: Female

• Coding: A,B,C,D

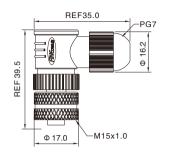
• Locking type: Fix screw

• Mounting type: Right angled

• Part No.: MB12FA\*FF\*\*RA

\* refers to coding type

\*\* refers to pins number









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 283
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts		Available Coding		Contacts Rated		Volt	Voltage		Wire gauge / size		Part No.	
Contacts	А	В	С	D	termination	current	A/C	D/C	AWG	mm²	jacket	Part NO.
03 pins	30 04 01	30 04	ОРЕ 30 02 (2+РЕ)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF03RA MB12FABFF03RA MB12FACFF03RA
04 pins	30 04 20 01	30 04 20 01	(3+PE)	30 0 <sup>4</sup>	Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF04RA MB12FABFF04RA MB12FACFF04RA MB12FADFF04RA
05 pins	30 04 05 20 01	30 04 05 20 01	20 0 04 10 05 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR/PVC or customized	MB12FAAFF05RA MB12FABFF05RA MB12FACFF05RA
06 pins			PE 20 0 04 10 05 (5 + PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FACFF06RA
08 pins	40 5 06 30 0 07 20 8 01				Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FAAFF08RA

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







# M12 Male Field Wirable Assembly, Straight, Screw joint, Shielded

• Connector series: M12

• Gender: Male Coding: A,B,D

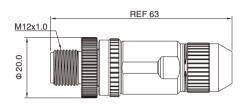
• Locking type: Fix screw Mounting type: Straight

• Part No.: MB12MWS\*FF\*\*ST-A MB12MWS\*FF\*\*ST-B

\* refers to coding type

\*\* refers to pins number

- suitable cable Dia: A:4~6mm B:6~8mm









M12 cables & connectors

#### ■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B: 6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 285
Mating endurance:	>500 cvcles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire gau	uge / size	Cable jacket	Part No.	
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	rait NO.	
03 pins	4 9 93	4 9 93		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF03ST-A/B MB12MWSBFF03ST-A/B	
04 pins	4	4® ®3 1® ®2	4 · · · · 3 · · · · · · · · · · · · · ·	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF04ST-A/B MB12MWSBFF04ST-A/B MB12MWSDFF04ST-A/B	
05 pins	40 03 05 10 02	4		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF05ST-A/B MB12MWSBFF05ST-A/B	
08 pins	60 5 04 70 0 03 10 8 02			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWSAFF08ST-A/B	

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







# M12 Female Field Wirable Assembly, Straight, Screw joint, Shielded

• Connector series: M12

• Gender: Female

Coding: A,B,D

• Locking type: Fix screw

Mounting type: Straight

Part No.: MB12FWS\*FF\*\*ST-A MB12FWS\*FF\*\*ST-B

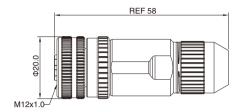
\* refers to coding type

\*\* refers to pins number

■ General information

Seal / O-ring:

- suitable cable Dia: A:4~6mm B:6~8mm









Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B: 6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 285
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	age	Wire gau	ıge / size	Cable jacket	Part No.	
Contacts	А	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	rait NO.	
03 pins	30 O4	30 04 01		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF03ST-A/B MB12FWSBFF03ST-A/B	
04 pins	30 Q4 20 Q1	30 04 20 01	3° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF04ST-A/B MB12FWSBFF04ST-A/B MB12FWSDFF04ST-A/B	
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF05ST-A/B MB12FWSBFF05ST-A/B	
08 pins	40 5 06 30 0 07 20 8 01			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWSAFF08ST-A/B	

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









# **M12 Male Field Assembly, Shielded Crimp Type**

• Connector series: M12

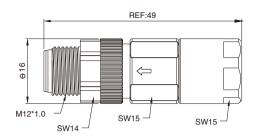
• Gender: Male Coding: A,B,D

• Locking type: Fix screw Mounting type: Straight Part No.: MB12MCS\*FF\*\*ST-A MB12MCS\*FF\*\*ST-B

\* refers to coding type

\*\* refers to pins number

- suitable cable Dia: A:4~6mm B:6~8mm









#### ■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	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: 4~6mm; B:6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire gau	ıge / size	Cable jacket	Part No.	
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	rait NO.	
03 pins	4® ®3	4 ® ® 3		Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MCSAFF03ST-A/B MB12MCSBFF03ST-A/B	
04 pins	4@ @3 1@ @2	4® ®3	4 · · · 3 · · · · · · · · · · · · · · ·	Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MCSAFF04ST-A/B MB12MCSBFF04ST-A/B MB12MCSDFF04ST-A/B	
05 pins	(4⊛ ⊛3 ⊛5 1⊛ ⊛2	4		Crimp type	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MCSAFF05ST-A/B MB12MCSBFF05ST-A/B	
08 pins	(60 5 04) (70 0 03) (10 8 02)			Crimp type	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MCSAFF08ST-A/B	

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







# **M12 Female Field Assembly, Shielded Crimp Type**

• Connector series: M12

• Gender: Female

Coding: A,B,D

• Locking type: Fix screw

Mounting type: Straight

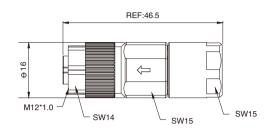
Part No.: MB12FCSxFF\*\*ST-A

MB12FCSxFF\*\*ST-B

\* refers to coding type

\*\* refers to pins number

- suitable cable Dia: A:4~6mm B:6~8mm









#### ■ General information

IEC 61076-2-101
-25℃ ~ +90℃
PA
Brass with gold plated
Brass with nickel plated
Zinc alloy with nickel plated
FKM

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B: 6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire gauge / size		Cable jacket	Part No.	
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	rait No.	
03 pins	30 O4	30 04 01		Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FCSAFF03ST-A/B MB12FCSBFF03ST-A/B	
04 pins	30 04 20 01	30 04 20 01	20 01	Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FCSAFF04ST-A/B MB12FCSBFF04ST-A/B MB12FCSDFF04ST-A/B	
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01		Crimp type	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FCSAFF05ST-A/B MB12FCSBFF05ST-A/B	
08 pins	40 5 06 30 0 07 20 8 01			Crimp type	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FCSAFF08ST-A/B	

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





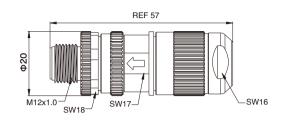


# M12 Male Field Wirable Assembly, Straight, Piercing, X-coding, Shielded

• Connector series: M12

• Gender: Male • Coding: X

• Locking type: Fix screw Mounting type: Straight Part No.: MB12MPSXFF08ST





### c¶ (€ RoHS (PS)

### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance:	≤10mΩ
Shielding:	Available
Suitable cable Dia:	5.5~9.0mm
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6 <sub>A</sub> /CAT 7
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	Contacts		Rated current	Volt A/C	tage D/C	Wire gauge / size  AWG mm²		Cable spec	Part No.
08 pins		Piercing	0.5A	50V	60V	27~24	0.14~0.34	CAT 6A/CAT 7	MB12MPSXFF08ST

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







### M12 Male Field Wirable Assembly, Angled, Screw joint, Shielded with Die-cast body

• Connector series: M12

• Gender: Male Coding: A,B,D

• Locking type: Fix screw

Mounting type: Right angled

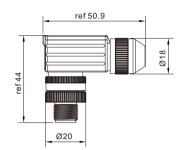
Part No.: MB12MWS\*FF\*\*RA-A

MB12MWS\*FF\*\*RA-B

\* refers to coding type

\*\* refers to pins number

- suitable cable Dia: A:4~6mm B:6~8mm









#### ■ General information

IEC 61076-2-101
-25℃ ~ +90℃
TPU
Brass with gold plated
Brass with nickel plated
Zinc alloy with nickel plated
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A:4~6mm; B:6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	Voltage		ige / size	Cable jacket	Part No.	
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	raicino.	
03 pins	4 9 93	4 3 3		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF03RA-A/B MB12MWSBFF03RA-A/B	
04 pins	4® ®3 1® ®2	4 3 3	4 · · · · 3 · · · · · · · · · · · · · ·	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF04RA-A/B MB12MWSBFF04RA-A/B MB12MWSDFF04RA-A/B	
05 pins	40 03 05 10 02	4 ® 3 ® 5 1 ® © 2		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF05RA-A/B MB12MWSBFF05RA-A/B	
08 pins	(60 § 04 (70 0 03) (10 8 02)			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWSAFF08RA-A/B	

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







### M12 Female Field Wirable Assembly, Angled, Screw joint, Shielded with Die-cast body

• Connector series: M12

Gender: Female

Coding: A,B,D

• Locking type: Fix screw

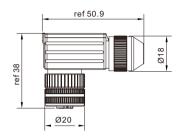
Mounting type: Right angled

Part No.: MB12FWS\*FF\*\*RA-A

MB12FWS\*FF\*\*RA-B

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

- suitable cable Dia: A:4~6mm B:6~8mm









#### ■ General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Available
Suitable cable Dia:	A:4~6mm; B:6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire ga	uge / size	Cable jacket	Part No.
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	30 04	30 04 01		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF03RA-A/B MB12FWSBFF03RA-A/B
04 pins	30 Q4 20 Q1	30 04 20 01	20 01	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF04RA-A/B MB12FWSBFF04RA-A/B MB12FWSDFF04RA-A/B
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF05RA-A/B MB12FWSBFF05RA-A/B
08 pins	40 5 06 30 0 07 20 8 01			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWSAFF08RA-A/B

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







### M12 Male Field Wirable Assembly, Straight, Screw joint

• Connector series: M12

• Gender: Male Coding: A,B,D

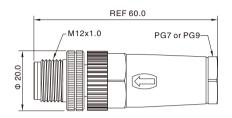
• Locking type: Fix screw Mounting type: Straight

Part No.: MB12MW\*FF\*\*ST-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7





### c¶ (€ RoHS (PS)



#### ■ General information

IEC 61076-2-101
-25℃ ~ +90℃
TPU
Brass with gold plated
Aluminum Alloy anodized
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ing	Contacts	Rated	Volt	tage	Wire gau	ıge / size	Cable jacket	Part No.	
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	rait No.	
03 pins	4 9 93	4 9 93		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF03ST- <u>X</u> MB12MWBFF03ST- <u>X</u>	
04 pins	4® ®3 1® ®2	4 @ @3	4 · · · 3 · · · · · · · · · · · · · · ·	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF04ST- <u>X</u> MB12MWBFF04ST- <u>X</u> MB12MWCFF04ST- <u>X</u>	
05 pins	(4@ @3 @5 1@ @2	(4⊛ ⊛3 ⊛ 5 1⊛ ⊛2		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF05ST- <u>X</u> MB12MWBFF05ST- <u>X</u>	
08 pins	(60 § 044) (70 0 03) (8 8 02)			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFF08ST- <u>X</u>	

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Male Field Wirable Assembly, Straight, Screw joint, Plastic Screw

• Connector series: M12

• Gender: Male Coding: A,B,D

• Locking type: Plastic fix screw

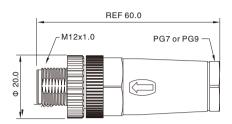
Mounting type: Straight

Part No.: MB12MW\*FP\*\*ST-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm/PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire ga	uge / size	Cable jacket	Part No.
Contacts	А	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	4 9 93	4 @ @3		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP03ST- <u>X</u> MB12MWBFP03ST- <u>X</u>
04 pins	4	4 3 3	4 · • 3 · 1 · • 2	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP04ST- <u>X</u> MB12MWBFP04ST- <u>X</u> MB12MWCFP04ST- <u>X</u>
05 pins	4	4 ® 93 ® 5 18 ® 2		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP05ST- <u>X</u> MB12MWBFP05ST- <u>X</u>
08 pins	60 5 04 70 0 03 10 8 02			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFP08ST- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Female Field Wirable Assembly, Straight, Screw joint

• Connector series: M12

Gender: Female

Coding: A,B,D

• Locking type: Fix screw

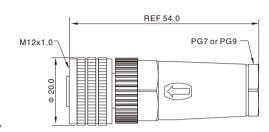
Mounting type: Straight

Part No.: MB12FW\*FF\*\*ST-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7





### c¶ (€ RoHS (PS)





#### ■ General information

IEC 61076-2-101
-25℃ ~ +90℃
TPU
Brass with gold plated
Aluminum Alloy anodized
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm/PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire ga	uge / size	Cable jacket	Part No.
Contacts	Α	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	30 04	30 04 01		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF03ST- <u>X</u> MB12FWBFF03ST- <u>X</u>
04 pins	30 Q4 20 Q1	30 04 20 01	3° °°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF04ST- <u>X</u> MB12FWBFF04ST- <u>X</u> MB12FWCFF04ST- <u>X</u>
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF05ST- <u>X</u> MB12FWBFF05ST- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFF08ST- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Female Field Wirable Assembly, Straight, Screw joint, Plastic Nut

• Connector series: M12

Gender: Female

Coding: A,B,D

• Locking type: Plastic fix screw

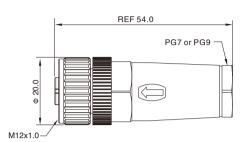
Mounting type: Straight

Part No.: MB12FW\*FP\*\*ST-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm/PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling Contact		Rated	Volt	tage	ge Wire gauge / size		Cable jacket	Part No.
Contacts	А	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	30 04 01	30 04 01		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP03ST- <u>X</u> MB12FWBFP03ST- <u>X</u>
04 pins	30 04 20 01	30 04 20 01	3° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP04ST- <u>X</u> MB12FWBFP04ST- <u>X</u> MB12FWCFP04ST- <u>X</u>
05 pins	30 04 05 20 01	30 04 05 20 01		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP05ST- <u>X</u> MB12FWBFP05ST- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFP08ST- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Male Field Wirable Assembly, Straight, Screw joint, S-coding

Connector series: M12

Gender: Male

Coding: S

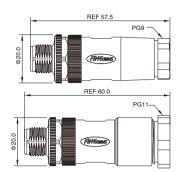
• Locking type: Fix screw

• Mounting type: Straight

• Part No.: MB12MWSFHD\*\*ST-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11









### ■ General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Rated Voltage		Wire gauge / size		Cable jacket	David Ma
Con	ldClS	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part No.
03 pins	(2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD03ST-3
04 pins	(3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD04ST-7

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







# M12 Female Field Wirable Assembly, Straight, Screw joint, S-coding

• Connector series: M12

• Gender: Female

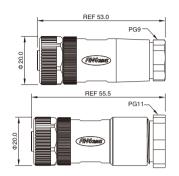
• Coding: S

• Locking type: Fix screw • Mounting type: Straight

• Part No.: MB12FWSFHD\*\*ST-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11









#### ■ General information

IEC 61076-2-111
-25℃~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	Contacts		Rated	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
Con	tacts	termination	current	A/C	D/C	AWG mm <sup>2</sup>		Cable Jacket	rait NO.
03 pins	(2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD03ST-3
04 pins	(3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD04ST-7

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







# M12 Male Field Wirable Assembly, Straight, Screw joint, T-coding

Connector series: M12

Gender: Male

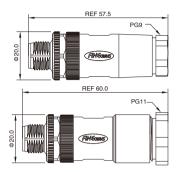
• Coding: T

• Locking type: Fix screw • Mounting type: Straight

• Part No.: MB12MWTFHD\*\*ST-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11







#### ■ General information

IEC 61076-2-111
-25℃~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Rated \	Rated Voltage		re gauge / size Cable jacket		Part No.
Con	ilacis	termination current		A/C	D/C	AWG mm <sup>2</sup>		Cable Jacket	Part NO.
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD02ST-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD03ST-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD04ST-7

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







# M12 Female Field Wirable Assembly, Straight, Screw joint, T-coding

• Connector series: M12

Gender: Female

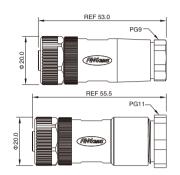
• Coding: T

• Locking type: Fix screw • Mounting type: Straight

• Part No.: MB12FWTFHD\*\*ST-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11









#### ■ General information

IEC 61076-2-111
-25℃~ +90℃
PA
Brass with gold plated
Zinc alloy with nickel plated
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Rated \	Rated Voltage		/ire gauge / size Cable jacket		Part No.
Con	ldClS	termination	current	A/C	D/C	AWG mm <sup>2</sup>		Cable Jacket	Part NO.
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD02ST-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD03ST-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD04ST-7

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







# M12 Male Field Wirable Assembly, Angled, Screw joint

• Connector series: M12

• Gender: Male Coding: A,B,D

• Locking type: Fix screw

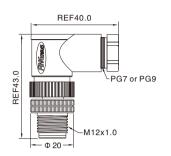
Mounting type: Right angled

Part No.: MB12MW\*FF\*\*RA-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7









#### ■ General information

IEC 61076-2-101
-25℃ ~ +90℃
TPU
Brass with gold plated
Aluminum Alloy anodized
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm/PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	Voltage		ıge / size	Cable jacket	Part No.
Contacts	А	В	D	termination	current	A/C	D/C	AWG mm²		Cable Jacket	Part NO.
03 pins	4 9 93	4 • • • • • • • • • • • • • • • • • • •		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF03RA- <u>X</u> MB12MWBFF03RA- <u>X</u>
04 pins	4	4® ®3 1® ®2	4 · · · · 3 · · · · · · · · · · · · · ·	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF04RA- <u>X</u> MB12MWBFF04RA- <u>X</u> MB12MWCFF04RA- <u>X</u>
05 pins	4	4 ® 3 ® 5 1 ® ® 2		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF05RA- <u>X</u> MB12MWBFF05RA- <u>X</u>
08 pins	(60 5 04) (70 0 03) 10 8 02)			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFF08RA- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Male Field Wirable Assembly, Angled, Screw joint, Plastic Screw

• Connector series: M12

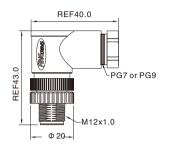
• Gender: Male Coding: A,B,D

• Locking type: Plastic fix screw Mounting type: Right angled Part No.: MB12MW\*FP\*\*RA-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm/PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire gau	uge / size	Cable jacket	Part No.
Contacts	А	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	4 9 93	4 @ @3		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP03RA- <u>X</u> MB12MWBFP03RA- <u>X</u>
04 pins	4® ®3 1® ®2	4® ®3 1® ®2	4 · · · · 3 · · · · · · · · · · · · · ·	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP04RA- <u>X</u> MB12MWBFP04RA- <u>X</u> MB12MWCFP04RA- <u>X</u>
05 pins	48 @3 @5 18 @2	4		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP05RA- <u>X</u> MB12MWBFP05RA- <u>X</u>
08 pins	(60 5 04) (70 0 03) 10 8 02)			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFP08RA- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Female Field Wirable Assembly, Angled, Screw joint

• Connector series: M12

Gender: Female

Coding: A,B,D

• Locking type: Fix screw

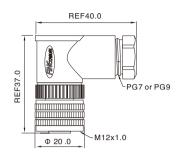
Mounting type: Right angled

Part No.: MB12FW\*FF\*\*RA-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7









#### ■ General information

IEC 61076-2-101
-25℃ ~ +90℃
TPU
Brass with gold plated
Aluminum Alloy anodized
PA+GF
FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm/PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 282
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated	Volt	tage	Wire gauge / size		Cable jacket	Part No.
Contacts	А	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	01 01	30 04 01		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF03RA- <u>X</u> MB12FWBFF03RA- <u>X</u>
04 pins	30 Q4 20 Q1	30 04 20 01	20 01	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF04RA- <u>X</u> MB12FWBFF04RA- <u>X</u> MB12FWCFF04RA- <u>X</u>
05 pins	30 Q4 Q5 20 Q1	30 04 05 20 01		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF05RA- <u>X</u> MB12FWBFF05RA- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFF08RA- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Female Field Wirable Assembly, Angled, Screw joint, Plastic Nut

• Connector series: M12

Gender: Female

Coding: A,B,D

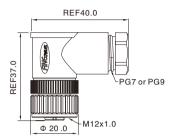
• Locking type: Plastic fix screw Mounting type: Right angled

Part No.: MB12FW\*FP\*\*RA-X

\* refers to coding type

\*\* refers to pins number

X refers to Cable gland size: 3=PG9, 4=PG7









#### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 282
Mating endurance:	>500 cvcles

#### ■ Electrical data & Mechanical data

Contacts	Ava	ilable Cod	ling	Contacts	Rated Voltage Wire gauge / size		Voltage W		Cable jacket	Part No.	
Contacts	А	В	D	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	Part NO.
03 pins	30 04 01	30 04 01		Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP03RA- <u>X</u> MB12FWBFP03RA- <u>X</u>
04 pins	30 04 20 01	30 04 20 01	3° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP04RA- <u>X</u> MB12FWBFP04RA- <u>X</u> MB12FWCFP04RA- <u>X</u>
05 pins	30 04 05 20 01	30 04 05 20 01		Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP05RA- <u>X</u> MB12FWBFP05RA- <u>X</u>
08 pins	40 5 06 30 0 07 20 8 01			Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFP08RA- <u>X</u>

Note: X refers to Cable gland size: 3=PG9, 4=PG7

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







# M12 Male Field Wirable Assembly, Angled, Screw joint, S-coding

• Connector series: M12

Gender: Male

• Coding: S

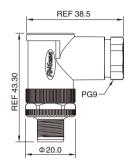
• Locking type: Fix screw

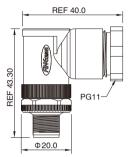
• Mounting type: Right angled

• Part No.: MB12MWSFHD\*\*RA-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11











#### ■ General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Volt	tage	Wire gau	uge / size	Cable jacket	Part No.
Con	ldClS	termination	current	A/C	D/C	AWG mm <sup>2</sup>		Cable Jacket	rait NO.
03 pins	(2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD03RA-3
04 pins	(3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD04RA-7

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









# M12 Female Field Wirable Assembly, Angled, Screw joint, S-coding

• Connector series: M12

Gender: Female

• Coding: S

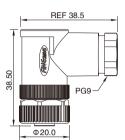
• Locking type: Fix screw

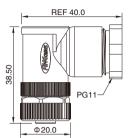
• Mounting type: Right angled

• Part No.: MB12FWSFHD\*\*RA-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11









#### ■ General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Cont	tacto	Contacts	Rated	Volt	age	Wire gau	uge / size	Cable jacket	Part No.
Com	lacis	termination	current	A/C	D/C	AWG	mm <sup>2</sup>	Cable Jacket	rait NO.
03 pins	(2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD03RA-3
04 pins	(3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD04RA-7

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







# M12 Male Field Wirable Assembly, Angled, Screw joint, T-coding

• Connector series: M12

Gender: Male

• Coding: T

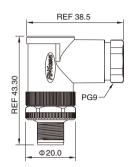
• Locking type: Fix screw

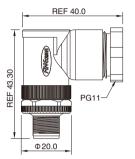
• Mounting type: Right angled

• Part No.: MB12MWTFHD\*\*RA-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11











#### ■ General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Volt	age	Wire gau	uge / size	Cable jacket	Part No.
Con	tacts	termination	current	A/C	D/C	AWG	mm²	Cable Jacket	rait NO.
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD02RA-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD03RA-3
04 pins		Screw joint	12A(40°C)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD04RA-7

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









# M12 Female Field Wirable Assembly, Angled, Screw joint, T-coding

• Connector series: M12

• Gender: Female

• Coding: T

• Locking type: Fix screw

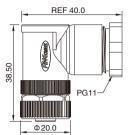
• Mounting type: Right angled

• Part No.: MB12FWTFHD\*\*RA-X

\*\* refers to pins number

X refers to cable gland size: 3=PG9, 7=PG11











#### ■ General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	≥100MΩ
Contact resistance :	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	tacts	Contacts	Rated	Voltage		Wire gauge / size		Cable jacket	Part No.
Con	tacts	termination	current	A/C	D/C	AWG	mm <sup>2</sup>	Cable Jacket	rait No.
02 pins		Screw joint	12A(40°C)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD02RA-3
03 pins		Screw joint	12A(40°C)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD03RA-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD04RA-7

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







# M12 Male Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap

• Connector series: M12

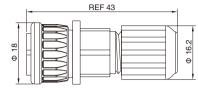
• Gender: Male

• Locking type: Quick-lock

• Mounting type: Plastic mounting

• Part No.: MB12MAAFQ\*\*ST







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#### ■ General information

O-ring:	FKM
Quick-lock Fix-cap:	PA + GF
Connector contacts:	Brass with gold plated
Connector insert/body:	PA + GF
Ambient temperature:	-25℃ ~ +90℃

Insulation resistance:	≥100MΩ
Contact resistance :	$\leq 5m\Omega$
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Con	Contacts		Rated	Volt	tage	Wire gau	uge / size	Cable	Part No.
Con	ldClS	Contacts Rated termination current		A/C	D/C	AWG	mm²	jacket	Part NO.
04 pins	2	Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	MB12MAAFQ04ST
06 pins	20 5 03 10 6 04	Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	MB12MAAFQ06ST

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



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





# M12 Female Field Wirable Assembly, Straight, Quick-lock Type

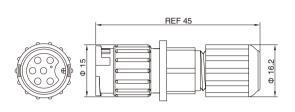
• Connector series: M12

• Gender: Female

• Locking type: Quick-lock

• Mounting type: Plastic mounting

• Part No.: MB12FAAFQ\*\*ST









### ■ General information

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

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

#### ■ Electrical data & Mechanical data

Contacts		Contacts Rated		Voltage		Wire gauge / size		Cable	Part No.
		termination	current	A/C	D/C	AWG	mm²	jacket	Part NO.
04 pins	30 Q2 40 Q1	Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	MB12FAAFQ04ST
06 pins	30 5 02 40 6 01	Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	MB12FAAFQ06ST

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



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





# M12 Female Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap

• Connector series: M12

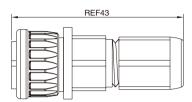
• Gender: Female

• Locking type: Quick-lock

• Mounting type: Plastic mounting

• Part No.: MB12FARAFQ\*\*ST









#### ■ General information

O-ring:	FKM
Quick-lock Fix-cap:	PA+GF
Connector contacts:	Brass with gold plated
Connector insert/body:	PA+GF
Ambient temperature:	-25℃ ~ +90℃

Insulation resistance:	≥100MΩ
Contact resistance:	≤5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles
Mating endurance.	>300 Cycles

#### ■ Electrical data & Mechanical data

Contacts		Contacts	Rated	Rated Voltage		Wire gauge / size		Cable	Part No.
		termination	current	A/C	D/C	AWG	mm²	jacket	Part NO.
05 pins	30 Q2 40 Q1	Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	MB12FARAFQ04ST
06 pins	30 5 02 40 6 01	Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	MB12FARAFQ06ST

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



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