

Industrial Circular connectors



M23 cables & connectors

The circular M23 Series is a waterproof connector specifically designed and developed for use in intensive, demanding operational conditions. It ensures operational stability and high-level performance under moisture, vibration, and temperature fluctuations. The circular M23 Series is utilized in a wide-range of applications, such as industrial automation machinery, railway transportation and medical equipment. Due to potential variations in electrical currents across various applications, we offer customized pin configurations suited to your specific needs. The circular M23 Series includes a molded cable type along with both assembly and panel type, which is designed for primarily transferring both power and analog or digital signals. A metallic external shield is also available, with removal internal plastic components and terminals.

- Degree of protection IP68
- 6,7,8,9,12,16,17,19 poles are available
- 360° EMC shielding is available for molded cable type
- TPU over molded or Metal shell
- Anti-vibration locking screw design
- Cable length customized, PUR and PVC cable options

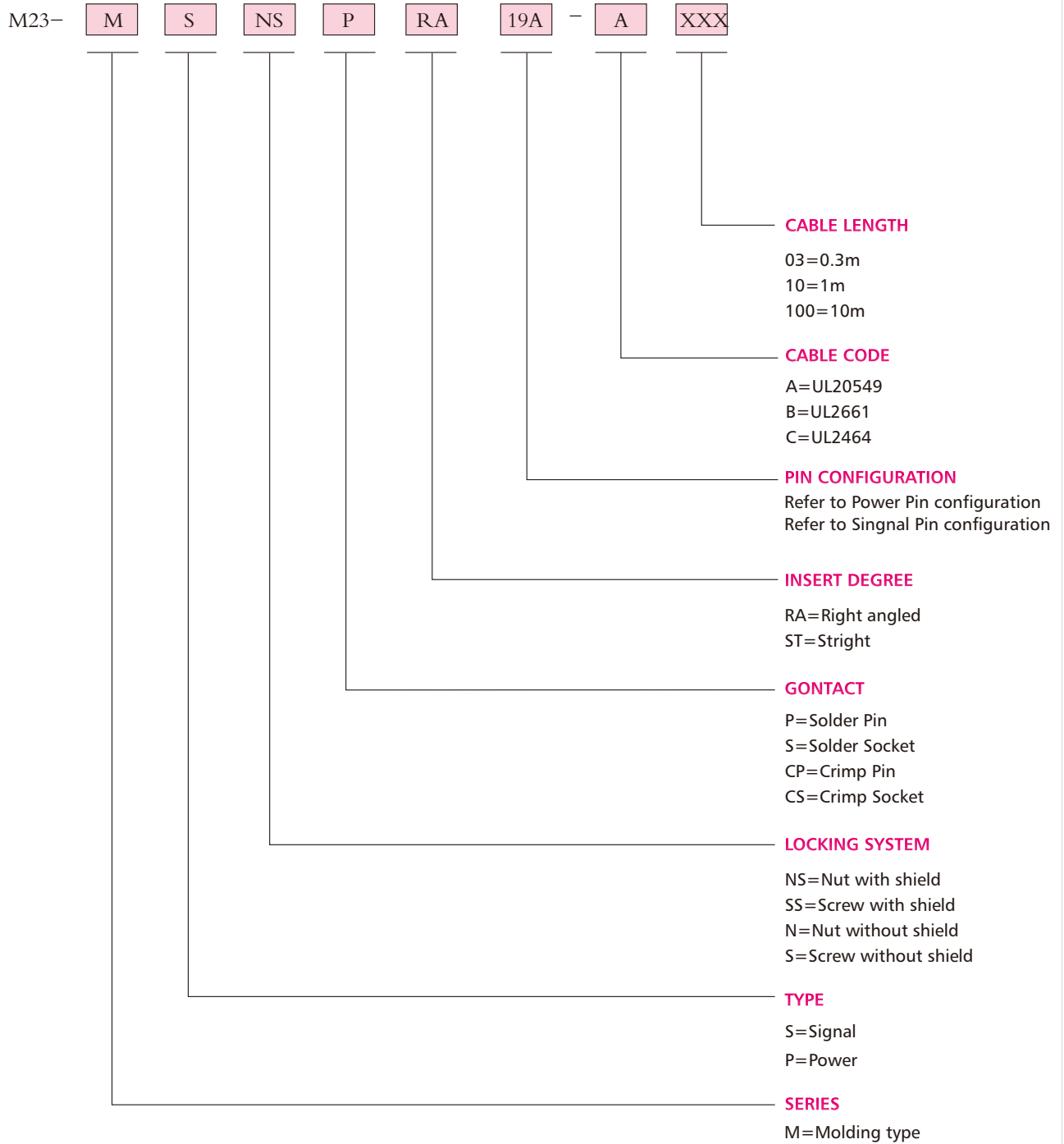
M23

Quick Search Table

[illegible]

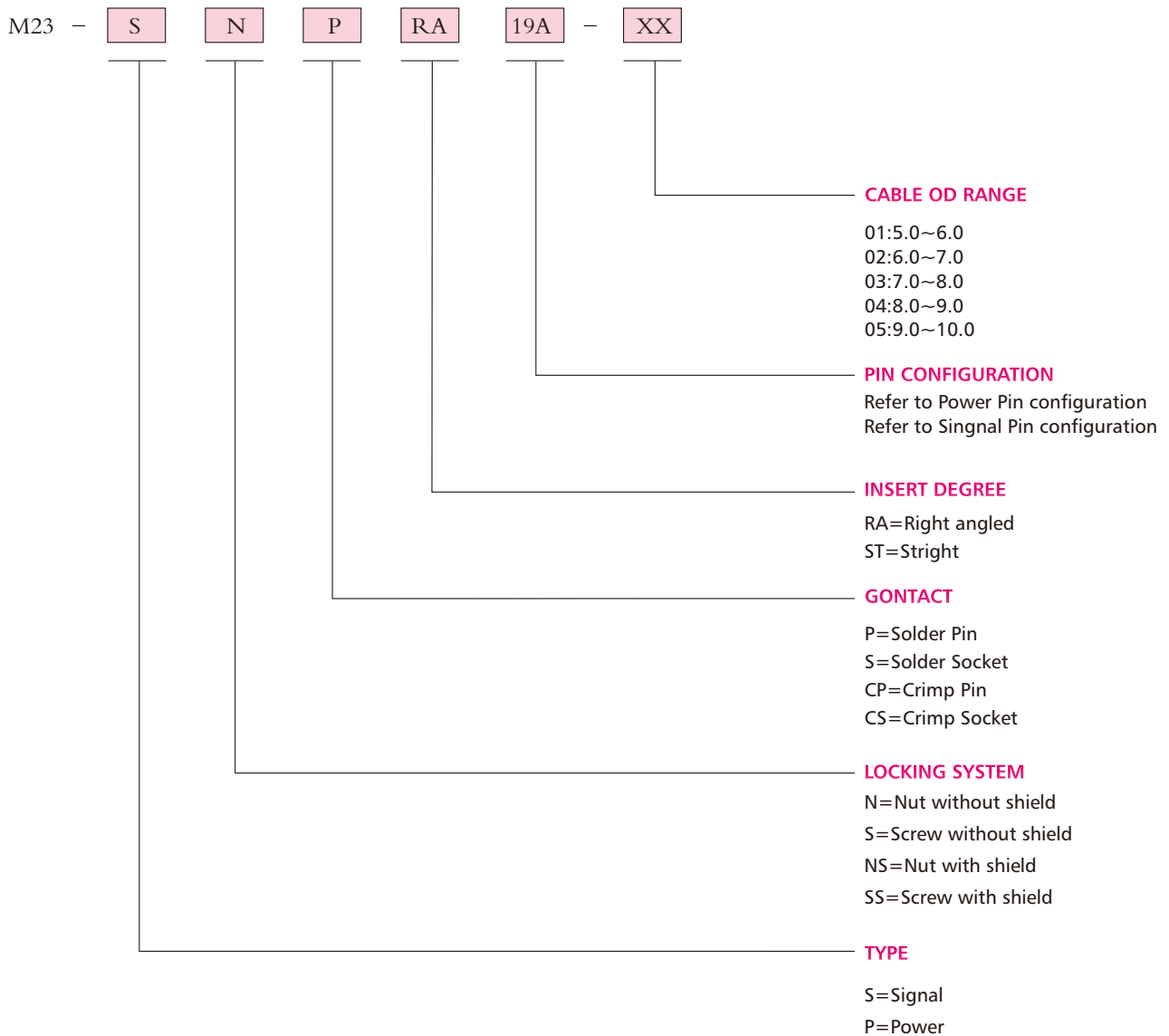
How to Order Part Number

■ M23 series with cable molded



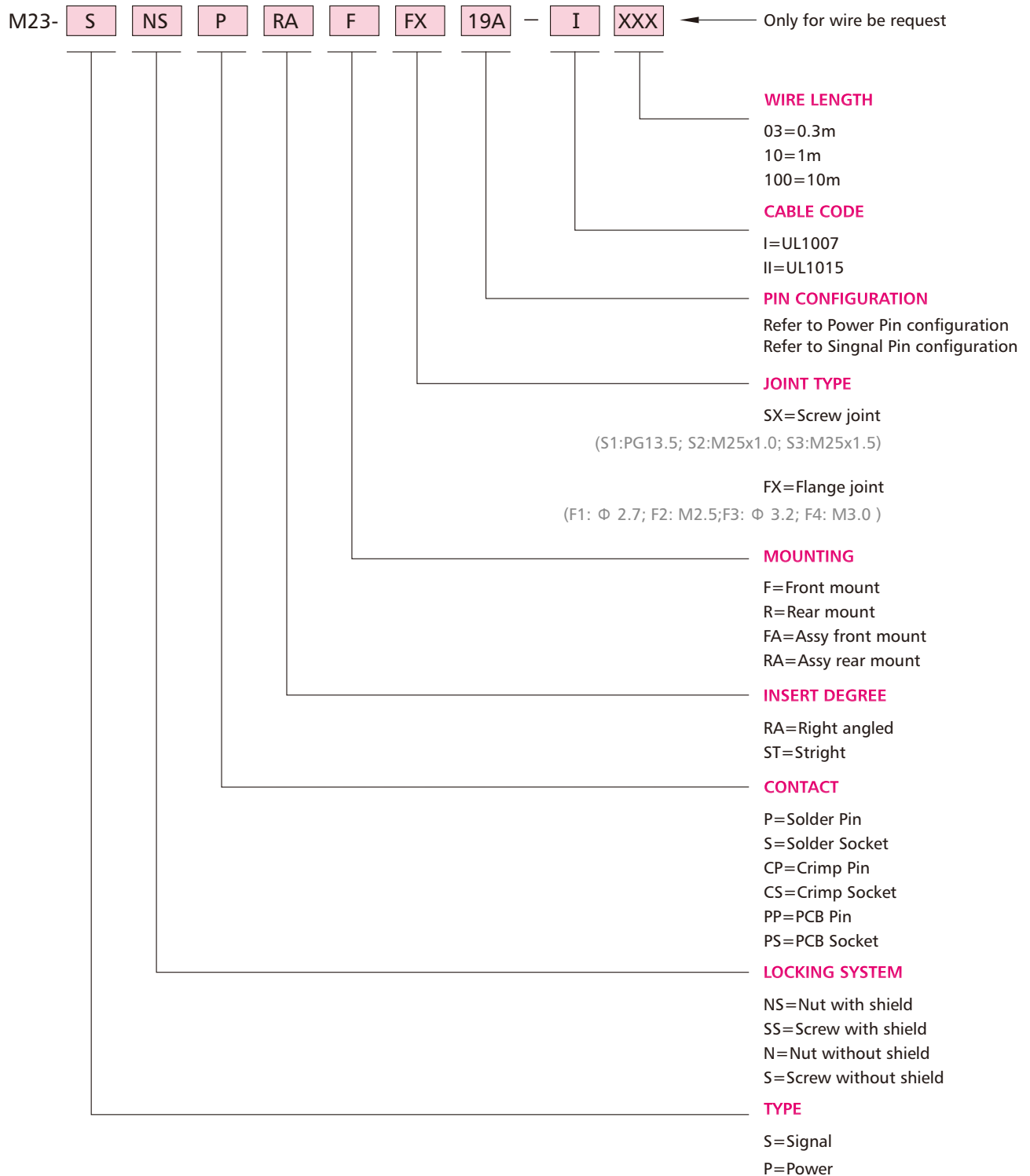
How to Order Part Number

■ M23 Series Assembly type



How to Order Part Number

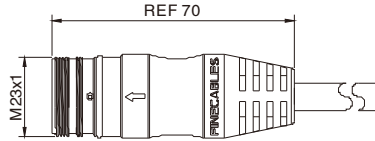
■ M23 Panel type with or without wire



M23 Signal Molded Cable, Straight, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Straight
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSSPST***-XXX (solder unshielded)
M23-MSSSPST***-XXX (solder shielded)
M23-MSSCPST***-XXX (crimp unshielded)
M23-MSSSCPST***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-MSSPST06A-XXX (solder unshielded) M23-MSSSPST06A-XXX (solder shielded) M23-MSSCPST06A-XXX (crimp unshielded) M23-MSSSCPST06A-XXX (crimp shielded)	12A (Standard)	1		M23-MSSPST12A-XXX (solder unshielded) M23-MSSSPST12A-XXX (solder shielded) M23-MSSCPST12A-XXX (crimp unshielded) M23-MSSSCPST12A-XXX (crimp shielded)
7A	2		M23-MSSPST07A-XXX (solder unshielded) M23-MSSSPST07A-XXX (solder shielded) M23-MSSCPST07A-XXX (crimp unshielded) M23-MSSSCPST07A-XXX (crimp shielded)	12B (opposite)	1		M23-MSSPST12B-XXX (solder unshielded) M23-MSSSPST12B-XXX (solder shielded) M23-MSSCPST12B-XXX (crimp unshielded) M23-MSSSCPST12B-XXX (crimp shielded)
9A (8+1)	8 1	1 2		17A (Standard)	1		M23-MSSPST17A-XXX (solder unshielded) M23-MSSSPST17A-XXX (solder shielded) M23-MSSCPST17A-XXX (crimp unshielded) M23-MSSSCPST17A-XXX (crimp shielded)
9B (8+1)	8 1	1 2		17B (opposite)	1		M23-MSSPST17B-XXX (solder unshielded) M23-MSSSPST17B-XXX (solder shielded) M23-MSSCPST17B-XXX (crimp unshielded) M23-MSSSCPST17B-XXX (crimp shielded)
9C (6+3)	6 3	1 2		19A (16+3)	1 3		M23-MSSPST19A-XXX (solder unshielded) M23-MSSSPST19A-XXX (solder shielded) M23-MSSCPST19A-XXX (crimp unshielded) M23-MSSSCPST19A-XXX (crimp shielded)
16A	1		M23-MSSPST16A-XXX (solder unshielded) M23-MSSSPST16A-XXX (solder shielded) M23-MSSCPST16A-XXX (crimp unshielded) M23-MSSSCPST16A-XXX (crimp shielded)				

Note: X refers to cable specification

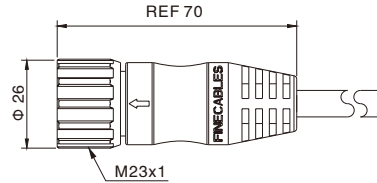
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Straight, Male Housing + Female Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Straight
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSNPST***-XXX (solder unshielded)
M23-MSNSPST***-XXX (solder shielded)
M23-MSNCPST***-XXX (crimp unshielded)
M23-MSNSCPST***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Pin	Part No.	Contacts		Contact OD (mm)	Pin	Part No.	
6A		2		M23-MSNPST06A- <u>XXX</u> (solder unshielded) M23-MSNSPST06A- <u>XXX</u> (solder shielded) M23-MSNCPST06A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST06A- <u>XXX</u> (crimp shielded)	12A (Standard)		1		M23-MSNPST12A- <u>XXX</u> (solder unshielded) M23-MSNSPST12A- <u>XXX</u> (solder shielded) M23-MSNCPST12A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST12A- <u>XXX</u> (crimp shielded)	
7A		2		M23-MSNPST07A- <u>XXX</u> (solder unshielded) M23-MSNSPST07A- <u>XXX</u> (solder shielded) M23-MSNCPST07A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST07A- <u>XXX</u> (crimp shielded)	12B (opposite)		1		M23-MSNPST12B- <u>XXX</u> (solder unshielded) M23-MSNSPST12B- <u>XXX</u> (solder shielded) M23-MSNCPST12B- <u>XXX</u> (crimp unshielded) M23-MSNSCPST12B- <u>XXX</u> (crimp shielded)	
9A (8+1)	8	1		M23-MSNPST09A- <u>XXX</u> (solder unshielded) M23-MSNSPST09A- <u>XXX</u> (solder shielded) M23-MSNCPST09A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST09A- <u>XXX</u> (crimp shielded)	17A (Standard)		1		M23-MSNPST17A- <u>XXX</u> (solder unshielded) M23-MSNSPST17A- <u>XXX</u> (solder shielded) M23-MSNCPST17A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST17A- <u>XXX</u> (crimp shielded)	
	1	2								
9B (8+1)	8	1		M23-MSNPST09B- <u>XXX</u> (solder unshielded) M23-MSNSPST09B- <u>XXX</u> (solder shielded) M23-MSNCPST09B- <u>XXX</u> (crimp unshielded) M23-MSNSCPST09B- <u>XXX</u> (crimp shielded)	17B (opposite)		1		M23-MSNPST17B- <u>XXX</u> (solder unshielded) M23-MSNSPST17B- <u>XXX</u> (solder shielded) M23-MSNCPST17B- <u>XXX</u> (crimp unshielded) M23-MSNSCPST17B- <u>XXX</u> (crimp shielded)	
	1	2								
9C (6+3)	6	1		M23-MSNPST09C- <u>XXX</u> (solder unshielded) M23-MSNSPST09C- <u>XXX</u> (solder shielded) M23-MSNCPST09C- <u>XXX</u> (crimp unshielded) M23-MSNSCPST09C- <u>XXX</u> (crimp shielded)	19A (16+3)		16 3	1 1.5		M23-MSNPST19A- <u>XXX</u> (solder unshielded) M23-MSNSPST19A- <u>XXX</u> (solder shielded) M23-MSNCPST19A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST19A- <u>XXX</u> (crimp shielded)
	3	2								
16A		1		M23-MSNPST16A- <u>XXX</u> (solder unshielded) M23-MSNSPST16A- <u>XXX</u> (solder shielded) M23-MSNCPST16A- <u>XXX</u> (crimp unshielded) M23-MSNSCPST16A- <u>XXX</u> (crimp shielded)						

Note: X refers to cable specification

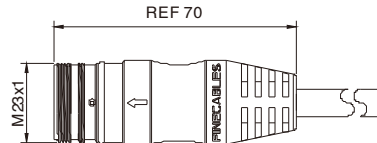
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Straight, Female Housing+ Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Straight
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSSSST***-XXX (solder unshielded)
M23-MSSSST***-XXX (solder shielded)
M23-MSSCSST***-XXX (crimp unshielded)
M23-MSSCSST***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A		2		M23-MSSSST06A-XXX (solder unshielded) M23-MSSSST06A-XXX (solder shielded) M23-MSSCSST06A-XXX (crimp unshielded) M23-MSSSCSST06A-XXX (crimp shielded)	12A (Standard)	1		M23-MSSSST12A-XXX (solder unshielded) M23-MSSSST12A-XXX (solder shielded) M23-MSSCSST12A-XXX (crimp unshielded) M23-MSSSCSST12A-XXX (crimp shielded)
7A		2		M23-MSSSST07A-XXX (solder unshielded) M23-MSSSST07A-XXX (solder shielded) M23-MSSCSST07A-XXX (crimp unshielded) M23-MSSSCSST07A-XXX (crimp shielded)	12B (opposite)	1		M23-MSSSST12B-XXX (solder unshielded) M23-MSSSST12B-XXX (solder shielded) M23-MSSCSST12B-XXX (crimp unshielded) M23-MSSSCSST12B-XXX (crimp shielded)
9A (8+1)	8	1		M23-MSSSST09A-XXX (solder unshielded) M23-MSSSST09A-XXX (solder shielded) M23-MSSCSST09A-XXX (crimp unshielded) M23-MSSSCSST09A-XXX (crimp shielded)	17A (Standard)	1		M23-MSSSST17A-XXX (solder unshielded) M23-MSSSST17A-XXX (solder shielded) M23-MSSCSST17A-XXX (crimp unshielded) M23-MSSSCSST17A-XXX (crimp shielded)
	1	2		M23-MSSSST17B-XXX (solder unshielded) M23-MSSSST17B-XXX (solder shielded) M23-MSSCSST17B-XXX (crimp unshielded) M23-MSSSCSST17B-XXX (crimp shielded)				
9B (8+1)	8	1		M23-MSSSST09B-XXX (solder unshielded) M23-MSSSST09B-XXX (solder shielded) M23-MSSCSST09B-XXX (crimp unshielded) M23-MSSSCSST09B-XXX (crimp shielded)	17B (opposite)	1		M23-MSSSST19A-XXX (solder unshielded) M23-MSSSST19A-XXX (solder shielded) M23-MSSCSST19A-XXX (crimp unshielded) M23-MSSSCSST19A-XXX (crimp shielded)
	1	2						
9C (6+3)	6	1		M23-MSSSST09C-XXX (solder unshielded) M23-MSSSST09C-XXX (solder shielded) M23-MSSCSST09C-XXX (crimp unshielded) M23-MSSSCSST09C-XXX (crimp shielded)	19A (16+3)	1		
	3	2				1.5		
16A		1		M23-MSSSST16A-XXX (solder unshielded) M23-MSSSST16A-XXX (solder shielded) M23-MSSCSST16A-XXX (crimp unshielded) M23-MSSSCSST16A-XXX (crimp shielded)				

Note: X refers to cable specification

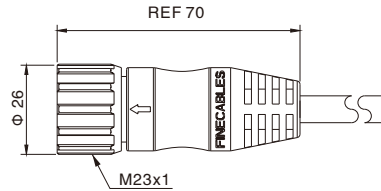
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Straight, Female Housing + Female Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Straight
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSNSST***-XXX (solder unshielded)
M23-MSNSST***-XXX (solder shielded)
M23-MSNCSST***-XXX (crimp unshielded)
M23-MSNCSST***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts			Contact OD (mm)	Socket	Part No.	Contacts			Contact OD (mm)	Socket	Part No.
6A		2		M23-MSNSST06A-XXX (solder unshielded) M23-MSNSST06A-XXX (solder shielded) M23-MSNCSSST06A-XXX (crimp unshielded) M23-MSNCSST06A-XXX (crimp shielded)	12A (Standard)		1		M23-MSNSST12A-XXX (solder unshielded) M23-MSNSST12A-XXX (solder shielded) M23-MSNCSSST12A-XXX (crimp unshielded) M23-MSNCSST12A-XXX (crimp shielded)		
7A		2		M23-MSNSST07A-XXX (solder unshielded) M23-MSNSST07A-XXX (solder shielded) M23-MSNCSSST07A-XXX (crimp unshielded) M23-MSNCSST07A-XXX (crimp shielded)	12B (opposite)		1		M23-MSNSST12B-XXX (solder unshielded) M23-MSNSST12B-XXX (solder shielded) M23-MSNCSSST12B-XXX (crimp unshielded) M23-MSNCSST12B-XXX (crimp shielded)		
9A (8+1)	8	1		M23-MSNSST09A-XXX (solder unshielded) M23-MSNSST09A-XXX (solder shielded) M23-MSNCSSST09A-XXX (crimp unshielded) M23-MSNCSST09A-XXX (crimp shielded)	17A (Standard)		1		M23-MSNSST17A-XXX (solder unshielded) M23-MSNSST17A-XXX (solder shielded) M23-MSNCSSST17A-XXX (crimp unshielded) M23-MSNCSST17A-XXX (crimp shielded)		
	1	2			17B (opposite)		1				
9B (8+1)	8	1		M23-MSNSST09B-XXX (solder unshielded) M23-MSNSST09B-XXX (solder shielded) M23-MSNCSSST09B-XXX (crimp unshielded) M23-MSNCSST09B-XXX (crimp shielded)	19A (16+3)		16		M23-MSNSST19A-XXX (solder unshielded) M23-MSNSST19A-XXX (solder shielded) M23-MSNCSSST19A-XXX (crimp unshielded) M23-MSNCSST19A-XXX (crimp shielded)		
	1	2			3		1.5				
9C (6+3)		6		M23-MSNSST09C-XXX (solder unshielded) M23-MSNSST09C-XXX (solder shielded) M23-MSNCSSST09C-XXX (crimp unshielded) M23-MSNCSST09C-XXX (crimp shielded)							
		3									
16A		1		M23-MSNSST16A-XXX (solder unshielded) M23-MSNSST16A-XXX (solder shielded) M23-MSNCSSST16A-XXX (crimp unshielded) M23-MSNCSST16A-XXX (crimp shielded)							

Note: X refers to cable specification

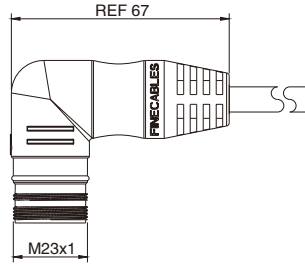
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Right Angle, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Right Angle
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSSPRA***-XXX (solder unshielded)
M23-MSSSPRA***-XXX (solder shielded)
M23-MSSCPRA***-XXX (crimp unshielded)
M23-MSSSCPRA***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-MSSPRA06A-XXX (solder unshielded) M23-MSSSPRA06A-XXX (solder shielded) M23-MSSCPRA06A-XXX (crimp unshielded) M23-MSSSCPRA06A-XXX (crimp shielded)	12A (Standard)	1		M23-MSSPRA12A-XXX (solder unshielded) M23-MSSSPRA12A-XXX (solder shielded) M23-MSSCPRA12A-XXX (crimp unshielded) M23-MSSSCPRA12A-XXX (crimp shielded)
7A	2		M23-MSSPRA07A-XXX (solder unshielded) M23-MSSSPRA07A-XXX (solder shielded) M23-MSSCPRA07A-XXX (crimp unshielded) M23-MSSSCPRA07A-XXX (crimp shielded)	12B (opposite)	1		M23-MSSPRA12B-XXX (solder unshielded) M23-MSSSPRA12B-XXX (solder shielded) M23-MSSCPRA12B-XXX (crimp unshielded) M23-MSSSCPRA12B-XXX (crimp shielded)
9A (8+1)	8 1	1 2	 	17A (Standard)	1		M23-MSSPRA17A-XXX (solder unshielded) M23-MSSSPRA17A-XXX (solder shielded) M23-MSSCPRA17A-XXX (crimp unshielded) M23-MSSSCPRA17A-XXX (crimp shielded)
9B (8+1)	8 1	1 2	 	17B (opposite)	1		M23-MSSPRA17B-XXX (solder unshielded) M23-MSSSPRA17B-XXX (solder shielded) M23-MSSCPRA17B-XXX (crimp unshielded) M23-MSSSCPRA17B-XXX (crimp shielded)
9C (6+3)	6 3	1 2	 	19A (16+3)	1 3	 	M23-MSSPRA19A-XXX (solder unshielded) M23-MSSSPRA19A-XXX (solder shielded) M23-MSSCPRA19A-XXX (crimp unshielded) M23-MSSSCPRA19A-XXX (crimp shielded)
16A	1		M23-MSSPRA16A-XXX (solder unshielded) M23-MSSSPRA16A-XXX (solder shielded) M23-MSSCPRA16A-XXX (crimp unshielded) M23-MSSSCPRA16A-XXX (crimp shielded)				

Note: X refers to cable specification

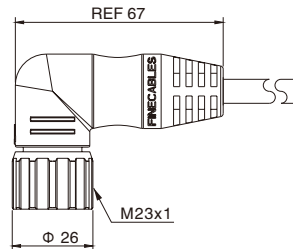
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Right Angle, Male Housing+Female Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Right Angle
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSNPR***-XXX (solder unshielded)
M23-MSNSPRA***-XXX (solder shielded)
M23-MSNCPPRA***-XXX (crimp unshielded)
M23-MSNSCPRA***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.	
6A		2		M23-MSNPR06A- XXX (solder unshielded) M23-MSNSPRA06A- XXX (solder shielded) M23-MSNCPPRA06A- XXX (crimp unshielded) M23-MSNSCPRA06A- XXX (crimp shielded)	12A (Standard)	1		M23-MSNPR12A- XXX (solder unshielded) M23-MSNSPRA12A- XXX (solder shielded) M23-MSNCPPRA12A- XXX (crimp unshielded) M23-MSNSCPRA12A- XXX (crimp shielded)	
7A		2		M23-MSNPR07A- XXX (solder unshielded) M23-MSNSPRA07A- XXX (solder shielded) M23-MSNCPPRA07A- XXX (crimp unshielded) M23-MSNSCPRA07A- XXX (crimp shielded)	12B (opposite)	1		M23-MSNPR12B- XXX (solder unshielded) M23-MSNSPRA12B- XXX (solder shielded) M23-MSNCPPRA12B- XXX (crimp unshielded) M23-MSNSCPRA12B- XXX (crimp shielded)	
9A (8+1)	8	1		M23-MSNPR09A- XXX (solder unshielded) M23-MSNSPRA09A- XXX (solder shielded) M23-MSNCPPRA09A- XXX (crimp unshielded) M23-MSNSCPRA09A- XXX (crimp shielded)	17A (Standard)	1		M23-MSNPR17A- XXX (solder unshielded) M23-MSNSPRA17A- XXX (solder shielded) M23-MSNCPPRA17A- XXX (crimp unshielded) M23-MSNSCPRA17A- XXX (crimp shielded)	
	1	2							
9B (8+1)	8	1		M23-MSNPR09B- XXX (solder unshielded) M23-MSNSPRA09B- XXX (solder shielded) M23-MSNCPPRA09B- XXX (crimp unshielded) M23-MSNSCPRA09B- XXX (crimp shielded)	17B (opposite)	1		M23-MSNPR17B- XXX (solder unshielded) M23-MSNSPRA17B- XXX (solder shielded) M23-MSNCPPRA17B- XXX (crimp unshielded) M23-MSNSCPRA17B- XXX (crimp shielded)	
	1	2							
9C (6+3)	6	1		M23-MSNPR09C- XXX (solder unshielded) M23-MSNSPRA09C- XXX (solder shielded) M23-MSNCPPRA09C- XXX (crimp unshielded) M23-MSNSCPRA09C- XXX (crimp shielded)	19A (16+3)	16	1		M23-MSNPR19A- XXX (solder unshielded) M23-MSNSPRA19A- XXX (solder shielded) M23-MSNCPPRA19A- XXX (crimp unshielded) M23-MSNSCPRA19A- XXX (crimp shielded)
	3	2				3	1.5		
16A		1		M23-MSNPR16A- XXX (solder unshielded) M23-MSNSPRA16A- XXX (solder shielded) M23-MSNCPPRA16A- XXX (crimp unshielded) M23-MSNSCPRA16A- XXX (crimp shielded)					

Note: X refers to cable specification

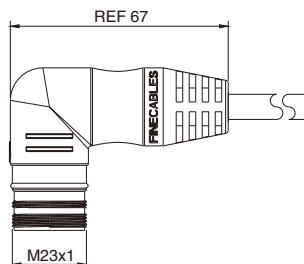
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Right Angle, Female Housing + Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Right Angle
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSSSRA***-XXX (solder unshielded)
M23-MSSSSRA***-XXX (solder shielded)
M23-MSSCSRA***-XXX (crimp unshielded)
M23-MSSSCSRA***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.	
6A		2		M23-MSSSRA06A- <u>XXX</u> (solder unshielded) M23-MSSSSRA06A- <u>XXX</u> (solder shielded) M23-MSSCSRA06A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA06A- <u>XXX</u> (crimp shielded)	12A (Standard)	1		M23-MSSSRA12A- <u>XXX</u> (solder unshielded) M23-MSSSSRA12A- <u>XXX</u> (solder shielded) M23-MSSCSRA12A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA12A- <u>XXX</u> (crimp shielded)	
7A		2		M23-MSSSRA07A- <u>XXX</u> (solder unshielded) M23-MSSSSRA07A- <u>XXX</u> (solder shielded) M23-MSSCSRA07A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA07A- <u>XXX</u> (crimp shielded)		12B (opposite)	1		M23-MSSSRA12B- <u>XXX</u> (solder unshielded) M23-MSSSSRA12B- <u>XXX</u> (solder shielded) M23-MSSCSRA12B- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA12B- <u>XXX</u> (crimp shielded)
9A (8+1)	8 1	1 2		M23-MSSSRA09A- <u>XXX</u> (solder unshielded) M23-MSSSSRA09A- <u>XXX</u> (solder shielded) M23-MSSCSRA09A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA09A- <u>XXX</u> (crimp shielded)	17A (Standard)	1		M23-MSSSRA17A- <u>XXX</u> (solder unshielded) M23-MSSSSRA17A- <u>XXX</u> (solder shielded) M23-MSSCSRA17A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA17A- <u>XXX</u> (crimp shielded)	
9B (8+1)	8 1	1 2		M23-MSSSRA09B- <u>XXX</u> (solder unshielded) M23-MSSSSRA09B- <u>XXX</u> (solder shielded) M23-MSSCSRA09B- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA09B- <u>XXX</u> (crimp shielded)		17B (opposite)	1		M23-MSSSRA17B- <u>XXX</u> (solder unshielded) M23-MSSSSRA17B- <u>XXX</u> (solder shielded) M23-MSSCSRA17B- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA17B- <u>XXX</u> (crimp shielded)
9C (6+3)	6 3	1 2		M23-MSSSRA09C- <u>XXX</u> (solder unshielded) M23-MSSSSRA09C- <u>XXX</u> (solder shielded) M23-MSSCSRA09C- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA09C- <u>XXX</u> (crimp shielded)	19A (16+3)	16 3	1 1.5		M23-MSSSRA19A- <u>XXX</u> (solder unshielded) M23-MSSSSRA19A- <u>XXX</u> (solder shielded) M23-MSSCSRA19A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA19A- <u>XXX</u> (crimp shielded)
16A		1		M23-MSSSRA16A- <u>XXX</u> (solder unshielded) M23-MSSSSRA16A- <u>XXX</u> (solder shielded) M23-MSSCSRA16A- <u>XXX</u> (crimp unshielded) M23-MSSSCSRA16A- <u>XXX</u> (crimp shielded)					

Note: X refers to cable specification

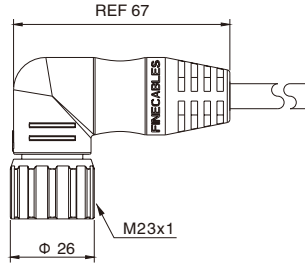
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Molded Cable, Right Angle, Female Housing + Female Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Right Angle
- Shielding: Shielded or unshielded
- Connection Type: Solder/Crimp
- Part No.: M23-MSNSRA***-XXX (solder unshielded)
M23-MSNSSRA***-XXX (solder shielded)
M23-MSNCSRA***-XXX (crimp unshielded)
M23-MSNSCSRA***-XXX (crimp shielded)

*** refers to pins number XXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A		2		M23-MSNSRA06A- <u>XXX</u> (solder unshielded) M23-MSNSSRA06A- <u>XXX</u> (solder shielded) M23-MSNCSCRA06A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA06A- <u>XXX</u> (crimp shielded)	12A (Standard)	1		M23-MSNSRA12A- <u>XXX</u> (solder unshielded) M23-MSNSSRA12A- <u>XXX</u> (solder shielded) M23-MSNCSCRA12A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA12A- <u>XXX</u> (crimp shielded)
7A		2		M23-MSNSRA07A- <u>XXX</u> (solder unshielded) M23-MSNSSRA07A- <u>XXX</u> (solder shielded) M23-MSNCSCRA07A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA07A- <u>XXX</u> (crimp shielded)	12B (opposite)	1		M23-MSNSRA12B- <u>XXX</u> (solder unshielded) M23-MSNSSRA12B- <u>XXX</u> (solder shielded) M23-MSNCSCRA12B- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA12B- <u>XXX</u> (crimp shielded)
9A (8+1)	8	1		M23-MSNSRA09A- <u>XXX</u> (solder unshielded) M23-MSNSSRA09A- <u>XXX</u> (solder shielded) M23-MSNCSCRA09A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA09A- <u>XXX</u> (crimp shielded)	17A (Standard)	1		M23-MSNSRA17A- <u>XXX</u> (solder unshielded) M23-MSNSSRA17A- <u>XXX</u> (solder shielded) M23-MSNCSCRA17A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA17A- <u>XXX</u> (crimp shielded)
	1	2						
9B (8+1)	8	1		M23-MSNSRA09B- <u>XXX</u> (solder unshielded) M23-MSNSSRA09B- <u>XXX</u> (solder shielded) M23-MSNCSCRA09B- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA09B- <u>XXX</u> (crimp shielded)	17B (opposite)	1		M23-MSNSRA17B- <u>XXX</u> (solder unshielded) M23-MSNSSRA17B- <u>XXX</u> (solder shielded) M23-MSNCSCRA17B- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA17B- <u>XXX</u> (crimp shielded)
	1	2						
9C (6+3)	6	1		M23-MSNSRA09C- <u>XXX</u> (solder unshielded) M23-MSNSSRA09C- <u>XXX</u> (solder shielded) M23-MSNCSCRA09C- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA09C- <u>XXX</u> (crimp shielded)	19A (16+3)	16 3		M23-MSNSRA19A- <u>XXX</u> (solder unshielded) M23-MSNSSRA19A- <u>XXX</u> (solder shielded) M23-MSNCSCRA19A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA19A- <u>XXX</u> (crimp shielded)
	3	2						
16A		1		M23-MSNSRA16A- <u>XXX</u> (solder unshielded) M23-MSNSSRA16A- <u>XXX</u> (solder shielded) M23-MSNCSCRA16A- <u>XXX</u> (crimp unshielded) M23-MSNSCSCRA16A- <u>XXX</u> (crimp shielded)				

Note: X refers to cable specification

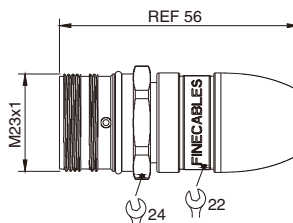
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSPST***-XX (solder)
M23-SSSCPST***-XX (crimp)

***refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.	
6A		2		M23-SSSPST06A- <u>XX</u> (solder) M23-SSSCPST06A- <u>XX</u> (crimp)	12A (Standard)	1		M23-SSSPST12A- <u>XX</u> (solder) M23-SSSCPST12A- <u>XX</u> (crimp)	
7A		2		M23-SSSPST07A- <u>XX</u> (solder) M23-SSSCPST07A- <u>XX</u> (crimp)	12B (opposite)	1		M23-SSSPST12B- <u>XX</u> (solder) M23-SSSCPST12B- <u>XX</u> (crimp)	
9A (8+1)	8 1	1 2		M23-SSSPST09A- <u>XX</u> (solder) M23-SSSCPST09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SSSPST17A- <u>XX</u> (solder) M23-SSSCPST17A- <u>XX</u> (crimp)	
9B (8+1)	8 1	1 2		M23-SSSPST09B- <u>XX</u> (solder) M23-SSSCPST09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SSSPST17B- <u>XX</u> (solder) M23-SSSCPST17B- <u>XX</u> (crimp)	
9C (6+3)	6 3	1 2		M23-SSSPST09C- <u>XX</u> (solder) M23-SSSCPST09C- <u>XX</u> (crimp)	19A (16+3)	16 3	1 1.5		M23-SSSPST19A- <u>XX</u> (solder) M23-SSSCPST19A- <u>XX</u> (crimp)
16A		1		M23-SSSPST16A- <u>XX</u> (solder) M23-SSSCPST16A- <u>XX</u> (crimp)					

Note: X for cable OD rang

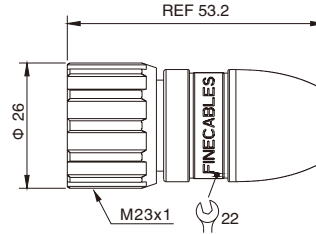
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Male Housing + Female Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSNPST***-XX (solder)
M23-SSNCPST***-XX (crimp)

*** refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts			Contact OD (mm)	Pin	Part No.	Contacts			Contact OD (mm)	Pin	Part No.
6A			2		M23-SSNPST06A- <u>XX</u> (solder) M23-SSNCPST06A- <u>XX</u> (crimp)	12A (Standard)			1		M23-SSNPST12A- <u>XX</u> (solder) M23-SSNCPST12A- <u>XX</u> (crimp)
7A			2		M23-SSNPST07A- <u>XX</u> (solder) M23-SSNCPST07A- <u>XX</u> (crimp)	12B (opposite)			1		M23-SSNPST12B- <u>XX</u> (solder) M23-SSNCPST12B- <u>XX</u> (crimp)
9A (8+1)	8	1		M23-SSNPST09A- <u>XX</u> (solder) M23-SSNCPST09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SSNPST17A- <u>XX</u> (solder) M23-SSNCPST17A- <u>XX</u> (crimp)			
	1	2									
9B (8+1)	8	1		M23-SSNPST09B- <u>XX</u> (solder) M23-SSNCPST09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SSNPST17B- <u>XX</u> (solder) M23-SSNCPST17B- <u>XX</u> (crimp)			
	1	2									
9C (6+3)	6	1		M23-SSNPST09C- <u>XX</u> (solder) M23-SSNCPST09C- <u>XX</u> (crimp)	19A (16+3)	16	1		M23-SSNPST19A- <u>XX</u> (solder) M23-SSNCPST19A- <u>XX</u> (crimp)		
	3	2				3	1.5				
16A			1		M23-SSNPST16A- <u>XX</u> (solder) M23-SSNCPST16A- <u>XX</u> (crimp)						

Note: X for cable OD rang

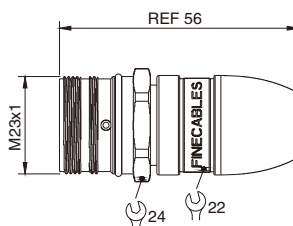
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Female Housing + Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSSST***-XX (solder)
M23-SSSCSST***-XX (crimp)

*** refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A		2		M23-SSSSST06A- <u>XX</u> (solder) M23-SSSCSST06A- <u>XX</u> (crimp)	12A (Standard)	1		M23-SSSSST12A- <u>XX</u> (solder) M23-SSSCSST12A- <u>XX</u> (crimp)
7A		2		M23-SSSSST07A- <u>XX</u> (solder) M23-SSSCSST07A- <u>XX</u> (crimp)	12B (opposite)	1		M23-SSSSST12B- <u>XX</u> (solder) M23-SSSCSST12B- <u>XX</u> (crimp)
9A (8+1)	8 1	1 2		M23-SSSSST09A- <u>XX</u> (solder) M23-SSSCSST09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SSSSST17A- <u>XX</u> (solder) M23-SSSCSST17A- <u>XX</u> (crimp)
9B (8+1)	8 1	1 2		M23-SSSSST09B- <u>XX</u> (solder) M23-SSSCSST09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SSSSST17B- <u>XX</u> (solder) M23-SSSCSST17B- <u>XX</u> (crimp)
9C (6+3)	6 3	1 2		M23-SSSSST09C- <u>XX</u> (solder) M23-SSSCSST09C- <u>XX</u> (crimp)	19A (16+3)	16 3		M23-SSSSST19A- <u>XX</u> (solder) M23-SSSCSST19A- <u>XX</u> (crimp)
16A		1		M23-SSSSST16A-XX (solder) M23-SSSCSST16A-XX (crimp)				

Note: X for cable OD rang

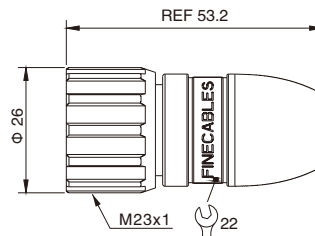
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Female Housing+Female Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SNSSST***-XX (solder)
M23-SNSCSST***-XX (crimp)

*** refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts			Contact OD (mm)	Socket	Part No.	Contacts			Contact OD (mm)	Socket	Part No.
6A			2		M23-SNSSST06A- <u>XX</u> (solder) M23-SNSCSST06A- <u>XX</u> (crimp)	12A (Standard)			1		M23-SNSSST12A- <u>XX</u> (solder) M23-SNSCSST12A- <u>XX</u> (crimp)
7A			2		M23-SNSSST07A- <u>XX</u> (solder) M23-SNSCSST07A- <u>XX</u> (crimp)	12B (opposite)			1		M23-SNSSST12B- <u>XX</u> (solder) M23-SNSCSST12B- <u>XX</u> (crimp)
9A (8+1)	8	1		M23-SNSSST09A- <u>XX</u> (solder) M23-SNSCSST09A- <u>XX</u> (crimp)	17A (Standard)			1		M23-SNSSST17A- <u>XX</u> (solder) M23-SNSCSST17A- <u>XX</u> (crimp)	
	1	2									
9B (8+1)	8	1		M23-SNSSST09B- <u>XX</u> (solder) M23-SNSCSST09B- <u>XX</u> (crimp)	17B (opposite)			1		M23-SNSSST17B- <u>XX</u> (solder) M23-SNSCSST17B- <u>XX</u> (crimp)	
	1	2									
9C (6+3)	6	1		M23-SNSSST09C- <u>XX</u> (solder) M23-SNSCSST09C- <u>XX</u> (crimp)	19A (16+3)	16	1		M23-SNSSST19A- <u>XX</u> (solder) M23-SNSCSST19A- <u>XX</u> (crimp)		
	3	2				3	1.5				
16A			1		M23-SNSSST16A- <u>XX</u> (solder) M23-SNSCSST16A- <u>XX</u> (crimp)						

Note: X for cable OD rang

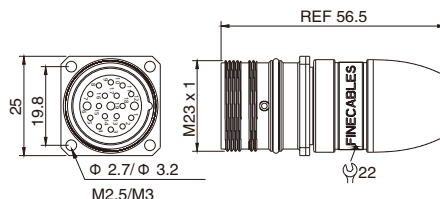
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSPSTFAF^{***}-XX (solder)
M23-SSSCPSTFAF^{***}-XX (crimp)

*** refers to pins number
XX for cable OD rang
Fx refer to panel mount hole



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.	
6A		2		M23-SSSPSTFAF <u>x</u> 06A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 06A- <u>XX</u> (crimp)	12A (Standard)	1		M23-SSSPSTFAF <u>x</u> 12A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 12A- <u>XX</u> (crimp)	
7A		2		M23-SSSPSTFAF <u>x</u> 07A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 07A- <u>XX</u> (crimp)	12B (opposite)	1		M23-SSSPSTFAF <u>x</u> 12B- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 12B- <u>XX</u> (crimp)	
9A (8+1)	8 1	1 2		M23-SSSPSTFAF <u>x</u> 09A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SSSPSTFAF <u>x</u> 17A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 17A- <u>XX</u> (crimp)	
9B (8+1)	8 1	1 2		M23-SSSPSTFAF <u>x</u> 09B- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SSSPSTFAF <u>x</u> 17B- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 17B- <u>XX</u> (crimp)	
9C (6+3)	6 3	1 2		M23-SSSPSTFAF <u>x</u> 09C- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 09C- <u>XX</u> (crimp)	19A (16+3)	16 3	1 1.5		M23-SSSPSTFAF <u>x</u> 19A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 19A- <u>XX</u> (crimp)
16A		1		M23-SSSPSTFAF <u>x</u> 16A- <u>XX</u> (solder) M23-SSSCPSTFAF <u>x</u> 16A- <u>XX</u> (crimp)					

Note: F_x refer to panel mount hole, X for cable OD rang

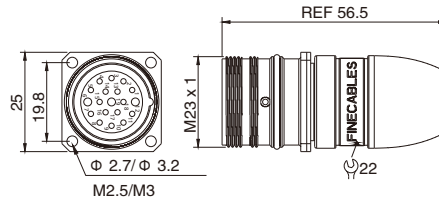
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSSSTFAF^{***}-XX (solder)
M23-SSSCSSTFAF^{***}-XX (crimp)

*** refers to pins number
XX for cable OD rang
Fx refer to panel mount hole



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts			Contact OD (mm)	Socket	Part No.	Contacts			Contact OD (mm)	Socket	Part No.
6A			2		M23-SSSSSTFAF _{Fx} 06A-XX (solder) M23-SSSCSSTFAF _{Fx} 06A-XX (crimp)	12A (Standard)			1		M23-SSSSSTFAF _{Fx} 12A-XX (solder) M23-SSSCSSTFAF _{Fx} 12A-XX (crimp)
7A			2		M23-SSSSSTFAF _{Fx} 07A-XX (solder) M23-SSSCSSTFAF _{Fx} 07A-XX (crimp)	12B (opposite)			1		M23-SSSSSTFAF _{Fx} 12B-XX (solder) M23-SSSCSSTFAF _{Fx} 12B-XX (crimp)
9A (8+1)	8	1		M23-SSSSSTFAF _{Fx} 09A-XX (solder) M23-SSSCSSTFAF _{Fx} 09A-XX (crimp)	17A (Standard)			1		M23-SSSSSTFAF _{Fx} 17A-XX (solder) M23-SSSCSSTFAF _{Fx} 17A-XX (crimp)	
	1	2			17B (opposite)			1			
9B (8+1)	8	1		M23-SSSSSTFAF _{Fx} 09B-XX (solder) M23-SSSCSSTFAF _{Fx} 09B-XX (crimp)	19A (16+3)			16		M23-SSSSSTFAF _{Fx} 19A-XX (solder) M23-SSSCSSTFAF _{Fx} 19A-XX (crimp)	
	1	2			3			1.5			
16A			1		M23-SSSSSTFAF _{Fx} 16A-XX (solder) M23-SSSCSSTFAF _{Fx} 16A-XX (crimp)						

Note: F_x refer to panel mount hole, X for cable OD rang

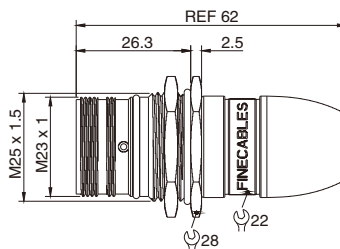
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly Connector, Straight, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSPSTFASx***-XX (solder)
M23-SSSCPSTFASx***-XX (crimp)

*** refers to pins number
XX for cable OD rang
Sx refer to panel thread



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.	
6A		2		M23-SSSPSTFASx06A-XX (solder) M23-SSSCPSTFASx06A-XX (crimp)	12A (Standard)	1		M23-SSSPSTFASx12A-XX (solder) M23-SSSCPSTFASx12A-XX (crimp)	
7A		2		M23-SSSPSTFASx07A-XX (solder) M23-SSSCPSTFASx07A-XX (crimp)	12B (opposite)	1		M23-SSSPSTFASx12B-XX (solder) M23-SSSCPSTFASx12B-XX (crimp)	
9A (8+1)	8 1	1 2		M23-SSSPSTFASx09A-XX (solder) M23-SSSCPSTFASx09A-XX (crimp)	17A (Standard)	1		M23-SSSPSTFASx17A-XX (solder) M23-SSSCPSTFASx17A-XX (crimp)	
9B (8+1)	8 1	1 2		M23-SSSPSTFASx09B-XX (solder) M23-SSSCPSTFASx09B-XX (crimp)	17B (opposite)	1		M23-SSSPSTFASx17B-XX (solder) M23-SSSCPSTFASx17B-XX (crimp)	
9C (6+3)	6 3	1 2		M23-SSSPSTFASx09C-XX (solder) M23-SSSCPSTFASx09C-XX (crimp)	19A (16+3)	16 3	1 1.5		M23-SSSPSTFASx19A-XX (solder) M23-SSSCPSTFASx19A-XX (crimp)
16A		1		M23-SSSPSTFASx16A-XX (solder) M23-SSSCPSTFASx16A-XX (crimp)					

Note: Sx refer to panel thread, X for cable OD rang

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

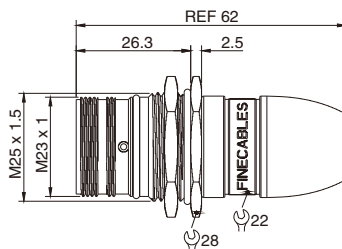
M23 Signal Assembly Connector, Straight, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Straight
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSSSTFASx***-XX (solder)
M23-SSSCSTFASx***-XX (crimp)

*** refers to pins number

XX for cable OD rang

Sx refer to panel thread



■ General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 414~415

■ Electrical data & Mechanical data

Number of positions	6,7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6,7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.	
6A		2		M23-SSSSSTFA <u>S</u> x06A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x06A- <u>XX</u> (crimp)	12A (Standard)	1		M23-SSSSSTFA <u>S</u> x12A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x12A- <u>XX</u> (crimp)	
7A		2		M23-SSSSSTFA <u>S</u> x07A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x07A- <u>XX</u> (crimp)	12B (opposite)	1		M23-SSSSSTFA <u>S</u> x12B- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x12B- <u>XX</u> (crimp)	
9A (8+1)	8 1	1 2		M23-SSSSSTFA <u>S</u> x09A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SSSSSTFA <u>S</u> x17A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x17A- <u>XX</u> (crimp)	
9B (8+1)	8 1	1 2		M23-SSSSSTFA <u>S</u> x09B- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SSSSSTFA <u>S</u> x17B- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x17B- <u>XX</u> (crimp)	
9C (6+3)	6 3	1 2		M23-SSSSSTFA <u>S</u> x09C- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x09C- <u>XX</u> (crimp)	19A (16+3)	16 3	1 1.5		M23-SSSSSTFA <u>S</u> x19A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x19A- <u>XX</u> (crimp)
16A		1		M23-SSSSSTFA <u>S</u> x16A- <u>XX</u> (solder) M23-SSSCSSTFA <u>S</u> x16A- <u>XX</u> (crimp)					

Note: Sx refer to panel thread, X for cable OD range

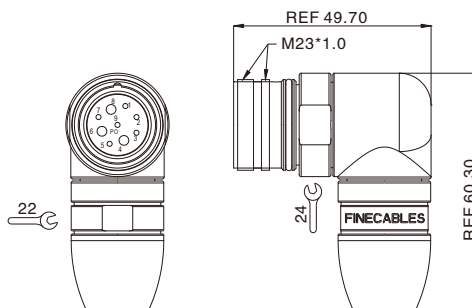
■ Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2 .
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly, Ringht Angle, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Ringht Angle
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSSPRA***-XX (solder)
M23-SSSCPRA***-XX (crimp)

*** refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 416

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSSSPRA06A-XX (solder) M23-SSSCPRA06A-XX (crimp)	12A (Standard)	1		M23-SSSSPRA12A-XX (solder) M23-SSSCPRA12A-XX (crimp)
7A	2		M23-SSSSPRA07A-XX (solder) M23-SSSCPRA07A-XX (crimp)	12B (opposite)	1		M23-SSSSPRA12B-XX (solder) M23-SSSCPRA12B-XX (crimp)
9A (8+1)	8 1	1 2	 M23-SSSSPRA09A-XX (solder) M23-SSSCPRA09A-XX (crimp)	17A (Standard)	1		M23-SSSSPRA17A-XX (solder) M23-SSSCPRA17A-XX (crimp)
9B (8+1)	8 1	1 2	 M23-SSSSPRA09B-XX (solder) M23-SSSCPRA09B-XX (crimp)	17B (opposite)	1		M23-SSSSPRA17B-XX (solder) M23-SSSCPRA17B-XX (crimp)
9C (6+3)	6 3	1 2	 M23-SSSSPRA09C-XX (solder) M23-SSSCPRA09C-XX (crimp)	19A (16+3)	16 3	1 1.5	 M23-SSSSPRA19A-XX (solder) M23-SSSCPRA19A-XX (crimp)
16A	1		M23-SSSSPRA16A-XX (solder) M23-SSSCPRA16A-XX (crimp)				

Note: X for cable OD rang

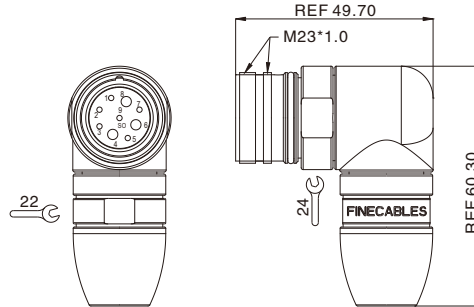
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly, Ringht Angle, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Ringht Angle
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SSSSRA***-XX (solder)
M23-SSSCSRA***-XX (crimp)

*** refers to pins number
XX for cable OD rang



General information

Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 416

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSSSRA06A-XX (solder) M23-SSSCSRA06A-XX (crimp)	12A (Standard)	1		M23-SSSSRA12A-XX (solder) M23-SSSCSRA12A-XX (crimp)
7A	2		M23-SSSSRA07A-XX (solder) M23-SSSCSRA07A-XX (crimp)	12B (opposite)	1		M23-SSSSRA12B-XX (solder) M23-SSSCSRA12B-XX (crimp)
9A (8+1)	8 1	1 2	 M23-SSSSRA09A-XX (solder) M23-SSSCSRA09A-XX (crimp)	17A (Standard)	1		M23-SSSSRA17A-XX (solder) M23-SSSCSRA17A-XX (crimp)
9B (8+1)	8 1	1 2	 M23-SSSSRA09B-XX (solder) M23-SSSCSRA09B-XX (crimp)	17B (opposite)	1		M23-SSSSRA17B-XX (solder) M23-SSSCSRA17B-XX (crimp)
9C (6+3)	6 3	1 2	 M23-SSSSRA09C-XX (solder) M23-SSSCSRA09C-XX (crimp)	19A (16+3)	16 3	1 1.5	 M23-SSSSRA19A-XX (solder) M23-SSSCSRA19A-XX (crimp)
16A	1		M23-SSSSRA16A-XX (solder) M23-SSSCSRA16A-XX (crimp)				

Note: X for cable OD rang

Remarks

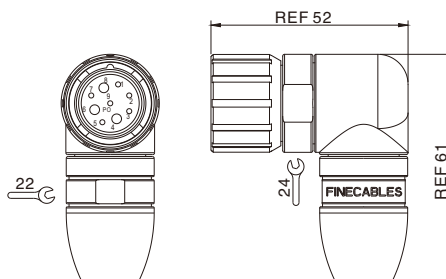
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly, Ringht Angle, Male Housing+Female Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Ringht Angle
- Shielding: Available
- Connection Type: Solder/Crimp
- Part No.: M23-SNSSPRA***-XX (solder)
M23-SNSCPRA***-XX (crimp)

*** refers to pins number

XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 416

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts		Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.	
6A		2		M23-SNSSPRA06A- <u>XX</u> (solder) M23-SNSCPRA06A- <u>XX</u> (crimp)	12A (Standard)	1		M23-SNSSPRA12A- <u>XX</u> (solder) M23-SNSCPRA12A- <u>XX</u> (crimp)	
7A		2		M23-SNSSPRA07A- <u>XX</u> (solder) M23-SNSCPRA07A- <u>XX</u> (crimp)	12B (opposite)	1		M23-SNSSPRA12B- <u>XX</u> (solder) M23-SNSCPRA12B- <u>XX</u> (crimp)	
9A (8+1)	8 1	1 2		M23-SNSSPRA09A- <u>XX</u> (solder) M23-SNSCPRA09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SNSSPRA17A- <u>XX</u> (solder) M23-SNSCPRA17A- <u>XX</u> (crimp)	
9B (8+1)	8 1	1 2		M23-SNSSPRA09B- <u>XX</u> (solder) M23-SNSCPRA09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SNSSPRA17B- <u>XX</u> (solder) M23-SNSCPRA17B- <u>XX</u> (crimp)	
9C (6+3)	6 3	1 2		M23-SNSSPRA09C- <u>XX</u> (solder) M23-SNSCPRA09C- <u>XX</u> (crimp)	19A (16+3)	16 3	1 1.5		M23-SNSSPRA19A- <u>XX</u> (solder) M23-SNSCPRA19A- <u>XX</u> (crimp)
16A		1		M23-SNSSPRA16A- <u>XX</u> (solder) M23-SNSCPRA16A- <u>XX</u> (crimp)					

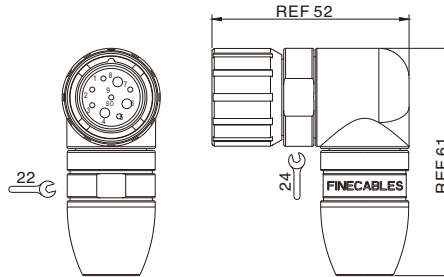
Note: X for cable OD rang

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Signal Assembly, Ringht Angle, Female Housing+Female Thread

- Connector series: M23 Signal
 - Contacts: Socket
 - Mounting type: Ringht Angle
 - Shielding: Available
 - Connection Type: Solder/Crimp
 - Part No.: M23-SN55SRA***-XX (solder)
M23-SN55CSRA***-XX (crimp)
- *** refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 416

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts			Contact OD (mm)	Socket	Part No.	Contacts			Contact OD (mm)	Socket	Part No.
6A			2		M23-SN55SRA06A- <u>XX</u> (solder) M23-SN55CSRA06A- <u>XX</u> (crimp)	12A (Standard)			1		M23-SN55SRA12A- <u>XX</u> (solder) M23-SN55CSRA12A- <u>XX</u> (crimp)
7A			2		M23-SN55SRA07A- <u>XX</u> (solder) M23-SN55CSRA07A- <u>XX</u> (crimp)	12B (opposite)			1		M23-SN55SRA12B- <u>XX</u> (solder) M23-SN55CSRA12B- <u>XX</u> (crimp)
9A (8+1)	8	1		M23-SN55SRA09A- <u>XX</u> (solder) M23-SN55CSRA09A- <u>XX</u> (crimp)	17A (Standard)	1		M23-SN55SRA17A- <u>XX</u> (solder) M23-SN55CSRA17A- <u>XX</u> (crimp)			
	1	2									
9B (8+1)	8	1		M23-SN55SRA09B- <u>XX</u> (solder) M23-SN55CSRA09B- <u>XX</u> (crimp)	17B (opposite)	1		M23-SN55SRA17B- <u>XX</u> (solder) M23-SN55CSRA17B- <u>XX</u> (crimp)			
	1	2									
9C (6+3)	6	1		M23-SN55SRA09C- <u>XX</u> (solder) M23-SN55CSRA09C- <u>XX</u> (crimp)	19A (16+3)	16	1		M23-SN55SRA19A- <u>XX</u> (solder) M23-SN55CSRA19A- <u>XX</u> (crimp)		
	3	2				3				1.5	
16A			1		M23-SN55SRA16A- <u>XX</u> (solder) M23-SN55CSRA16A- <u>XX</u> (crimp)						

Note: X for cable OD rang

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

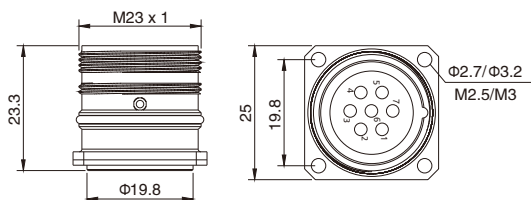
M23 Signal Panel Mount, Solder, Front mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Front mount
- Shielding: Unavailable
- Connection Type: Solder
- Part No.: M23-SSPSTF_{Fx}***-XXX

F_x refer to Flange joint

*** refers to pins number

XXX for wire type and length



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSPSTF _{Fx} 06A-XXX	12A (Standard)	1		M23-SSPSTF _{Fx} 12A-XXX
7A	2		M23-SSPSTF _{Fx} 07A-XXX	12B (opposite)	1		M23-SSPSTF _{Fx} 12B-XXX
9A (8+1)	8	1	M23-SSPSTF _{Fx} 09A-XXX	17A (Standard)	1		M23-SSPSTF _{Fx} 17A-XXX
	1	2			1		
9B (8+1)	8	1	M23-SSPSTF _{Fx} 09B-XXX	17B (opposite)	1		M23-SSPSTF _{Fx} 17B-XXX
	1	2			1		
9C (6+3)	6	1	M23-SSPSTF _{Fx} 09C-XXX	19A (16+3)	16	1	M23-SSPSTF _{Fx} 19A-XXX
	3	2			3	1.5	
16A	1		M23-SSPSTF _{Fx} 16A-XXX				

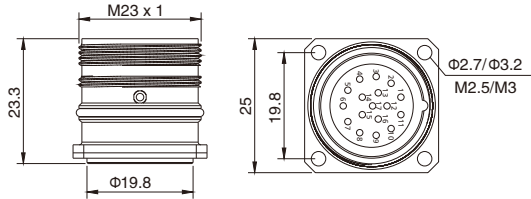
Note: F_x refer to Flange joint, X for wire type and length

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Solder, Front mount, Female Housing + Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Front mount
- Shielding: Unavailable
- Connection Type: Solder
- Part No.: M23-SSSSTFFx***-XXX
Fx refer to Flange joint
*** refers to pins number
XXX for wire type and length



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSSSTFFx06A-XXX	12A (Standard)	1		M23-SSSSTFFx12A-XXX
7A	2		M23-SSSSTFFx07A-XXX	12B (opposite)	1		M23-SSSSTFFx12B-XXX
9A (8+1)	8		M23-SSSSTFFx09A-XXX	17A (Standard)	1		M23-SSSSTFFx17A-XXX
	1						
9B (8+1)	8		M23-SSSSTFFx09B-XXX	17B (opposite)	1		M23-SSSSTFFx17B-XXX
	1						
9C (6+3)	6		M23-SSSSTFFx09C-XXX	19A (16+3)	16		M23-SSSSTFFx19A-XXX
	3				3		
16A	1		M23-SSSSTFFx16A-XXX				

Note: Fx refer to Flange joint, X for wire type and length

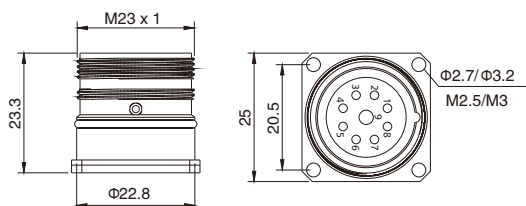
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Solder, Rear mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Rear mount
- Shielding: Unavailable
- Connection Type: Solder
- Part No.: M23-SSPSTRFx***-XXX

Fx refer to Flange joint
*** refers to pins number
XXX for wire type and length



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSPSTRFx06A-XXX	12A (Standard)	1		M23-SSPSTRFx12A-XXX
7A	2		M23-SSPSTRFx07A-XXX	12B (opposite)	1		M23-SSPSTRFx12B-XXX
9A (8+1)	8		M23-SSPSTRFx09A-XXX	17A (Standard)	1		M23-SSPSTRFx17A-XXX
	1						
9B (8+1)	8		M23-SSPSTRFx09B-XXX	17B (opposite)	1		M23-SSPSTRFx17B-XXX
	1						
9C (6+3)	6		M23-SSPSTRFx09C-XXX	19A (16+3)	16		M23-SSPSTRFx19A-XXX
	3				3		
16A	1		M23-SSPSTRFx16A-XXX				

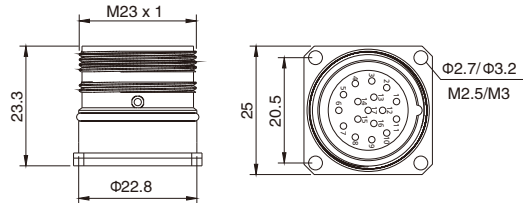
Note: Fx refer to Flange joint, X for wire type and length

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Solder, Rear mount, Female Housing + Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Rear mount
- Shielding: Unavailable
- Connection Type: Solder
- Part No.: M23-SSSSTRFx***-XXX
Fx refer to Flange joint
*** refers to pins number
XXX for wire type and length



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSSSTRFx06A-XXX	12A (Standard)	1		M23-SSSSTRFx12A-XXX
7A	2		M23-SSSSTRFx07A-XXX	12B (opposite)	1		M23-SSSSTRFx12B-XXX
9A (8+1)	8		M23-SSSSTRFx09A-XXX	17A (Standard)	1		M23-SSSSTRFx17A-XXX
	1						
9B (8+1)	8		M23-SSSSTRFx09B-XXX	17B (opposite)	1		M23-SSSSTRFx17B-XXX
	1						
9C (6+3)	6		M23-SSSSTRFx09C-XXX	19A (16+3)	1		M23-SSSSTRFx19A-XXX
	3				1.5		
16A	1		M23-SSSSTRFx16A-XXX				

Note: Fx refer to Flange joint, X for wire type and length

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

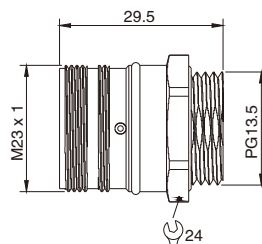
M23 Signal Panel Mount, Solder, Rear mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Rear mount
- Shielding: Unavailable
- Connection Type: Solder
- Part No.: M23-SSPSTRSx***-XXX

Sx refer to Screw joint

*** refers to pins number

XXX for wire type and length



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	$\geq 100\text{M}\Omega$
Contact resistance:	$\leq 5\text{m}\Omega$
Ambient temperature:	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSPSTRSx06A-XXX	12A (Standard)	1		M23-SSPSTRSx12A-XXX
7A	2		M23-SSPSTRSx07A-XXX	12B (opposite)	1		M23-SSPSTRSx12B-XXX
9A (8+1)	8		M23-SSPSTRSx09A-XXX	17A (Standard)	1		M23-SSPSTRSx17A-XXX
	1						
9B (8+1)	8		M23-SSPSTRSx09B-XXX	17B (opposite)	1		M23-SSPSTRSx17B-XXX
	1						
9C (6+3)	6		M23-SSPSTRSx09C-XXX	19A (16+3)	16		M23-SSPSTRSx19A-XXX
	3				3		
16A	1		M23-SSPSTRSx16A-XXX				

Note: Sx refer to Screw joint, X for wire type and length

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

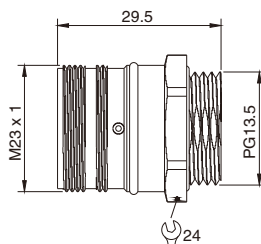
M23 Signal Panel Mount, Solder, Rear mount, Female Housing + Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Rear mount
- Shielding: Unavailable
- Connection Type: Solder
- Part No.: M23-SSSSTRSx***-XXX

Sx refer to Screw joint

*** refers to pins number

XXX for wire type and length



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSSSTRSx06A-XXX	12A (Standard)	1		M23-SSSSTRSx12A-XXX
7A	2		M23-SSSSTRSx07A-XXX	12B (opposite)	1		M23-SSSSTRSx12B-XXX
9A (8+1)	8		M23-SSSSTRSx09A-XXX	17A (Standard)	1		M23-SSSSTRSx17A-XXX
	1						
9B (8+1)	8		M23-SSSSTRSx09B-XXX	17B (opposite)	1		M23-SSSSTRSx17B-XXX
	1						
9C (6+3)	6		M23-SSSSTRSx09C-XXX	19A (16+3)	1		M23-SSSSTRSx19A-XXX
	3				1.5		
16A	1		M23-SSSSTRSx16A-XXX				

Note: Sx refer to Screw joint, X for wire type and length

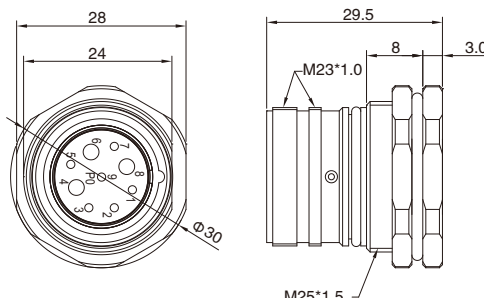
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Solder, Front mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: Solder
- Part No.: M23-SSPSTF_{Sx}***

*** refers to pins number
Sx refer to Flange joint



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSPSTF _{Sx} 06A	12A (Standard)	1		M23-SSPSTF _{Sx} 12A
7A	2		M23-SSPSTF _{Sx} 07A	12B (opposite)	1		M23-SSPSTF _{Sx} 12B
9A (8+1)	8	1	M23-SSPSTF _{Sx} 09A	17A (Standard)	1		M23-SSPSTF _{Sx} 17A
	1	2		17B (opposite)	1		M23-SSPSTF _{Sx} 17B
9B (8+1)	8	1	M23-SSPSTF _{Sx} 09B	19A (16+3)	1		M23-SSPSTF _{Sx} 19A
	1	2			1.5		
9C (6+3)	6	1	M23-SSPSTF _{Sx} 09C				
	3	2					
16A	1		M23-SSPSTF _{Sx} 16A				

Note: _{Sx} refer to Flange joint

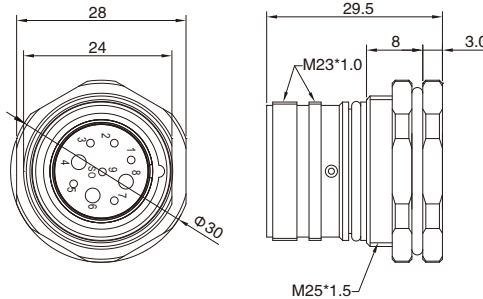
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Solder, Front mount, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: Solder
- Part No.: M23-SSSSTFS_x***

*** refers to pins number
Sx refer to Flange joint



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 413
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSSSTFS _x 06A	12A (Standard)	1		M23-SSSSTFS _x 12A
7A	2		M23-SSSSTFS _x 07A	12B (opposite)	1		M23-SSSSTFS _x 12B
9A (8+1)	8 / 1		M23-SSSSTFS _x 09A	17A (Standard)	1		M23-SSSSTFS _x 17A
9B (8+1)	8 / 1		M23-SSSSTFS _x 09B	17B (opposite)	1		M23-SSSSTFS _x 17B
9C (6+3)	6 / 3		M23-SSSSTFS _x 09C	19A (16+3)	16 / 3		M23-SSSSTFS _x 19A
16A	1		M23-SSSSTFS _x 16A				

Note: S_x refer to Flange joint

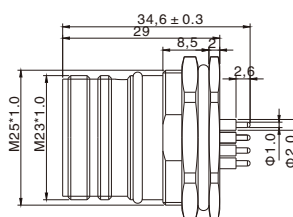
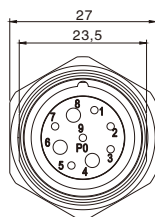
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, PCB, Front mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: PCB
- Part No.: M23-SSPPSTFS2***

*** refers to pins number



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +125°C
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 420
PCB layout:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSPPSTFS206A	12A (Standard)	1		M23-SSPPSTFS212A
7A	2		M23-SSPPSTFS207A	12B (opposite)	1		M23-SSPPSTFS212B
9A (8+1)	8 1	1 2	M23-SSPPSTFS209A	17A (Standard)	1		M23-SSPPSTFS217A
9B (8+1)	8 1	1 2	M23-SSPPSTFS209B	17B (opposite)	1		M23-SSPPSTFS217B
9C (6+3)	6 3	1 2	M23-SSPPSTFS209C	19A (16+3)	16 3	1 1.5	M23-SSPPSTFS219A
16A	1		M23-SSPPSTFS216A				

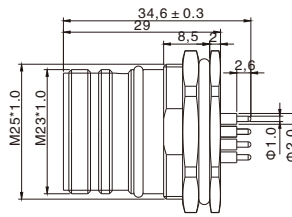
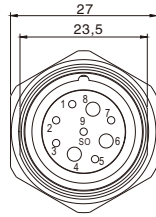
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, PCB, Front mount, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: PCB
- Part No.: M23-SSPSSTFS2***

*** refers to pins number



General information

Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +125°C
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 420
PCB layout:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSPSSTFS206A	12A (Standard)	1		M23-SSPSSTFS212A
7A	2		M23-SSPSSTFS207A	12B (opposite)	1		M23-SSPSSTFS212B
9A (8+1)	8 / 1		M23-SSPSSTFS209A	17A (Standard)	1		M23-SSPSSTFS217A
9B (8+1)	8 / 1		M23-SSPSSTFS209B	17B (opposite)	1		M23-SSPSSTFS217B
9C (6+3)	6 / 3		M23-SSPSSTFS209C	19A (16+3)	16 / 3		M23-SSPSSTFS219A
16A	1		M23-SSPSSTFS216A				

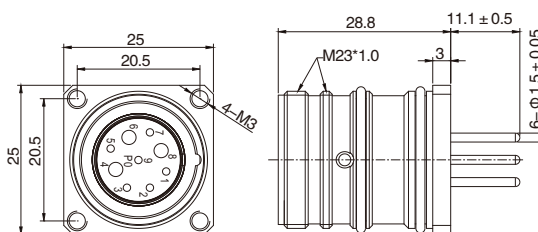
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, PCB, Front mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: PCB
- Part No.: M23-SSPPSTFFx***

*** refers to pins number
Fx refer to Flange joint



General information

Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +125°C
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 420
PCB layout:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSPPSTFFx06A	12A (Standard)	1		M23-SSPPSTFFx12A
7A	2		M23-SSPPSTFFx07A	12B (opposite)	1		M23-SSPPSTFFx12B
9A (8+1)	8	1	M23-SSPPSTFFx09A	17A (Standard)	1		M23-SSPPSTFFx17A
	1	2		17B (opposite)	1		M23-SSPPSTFFx17B
9B (8+1)	8	1	M23-SSPPSTFFx09B	19A (16+3)	16	1	M23-SSPPSTFFx19A
	1	2			3	1.5	
9C (6+3)	6	1	M23-SSPPSTFFx09C				
	3	2					
16A	1		M23-SSPPSTFFx16A				

Note: Fx refer to Flange joint

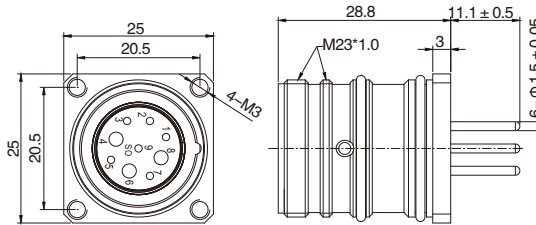
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, PCB, Front mount, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: PCB
- Part No.: M23-SSPSSTFFx***

*** refers to pins number
Fx refer to Flange joint



General information

Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40°C ~ +125°C
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 420
PCB layout:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20°C(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSPSSTFFx06A	12A (Standard)	1		M23-SSPSSTFFx12A
7A	2		M23-SSPSSTFFx07A	12B (opposite)	1		M23-SSPSSTFFx12B
9A (8+1)	8 / 1		M23-SSPSSTFFx09A	17A (Standard)	1		M23-SSPSSTFFx17A
9B (8+1)	8 / 1		M23-SSPSSTFFx09B	17B (opposite)	1		M23-SSPSSTFFx17B
9C (6+3)	6 / 3		M23-SSPSSTFFx09C	19A (16+3)	16 / 3		M23-SSPSSTFFx19A
16A	1		M23-SSPSSTFFx16A				

Note: Fx refer to Flange joint

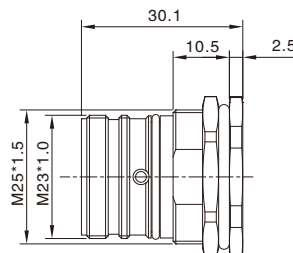
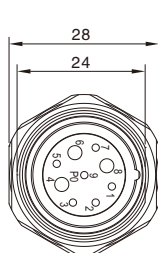
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Crimp, Front mount, Male Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Pin
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: Crimp
- Part No.: M23-SSCPSTFSx***

*** refers to pins number
Sx refer to Flange joint



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
6A	2		M23-SSCPSTFSx06A	12A (Standard)	1		M23-SSCPSTFSx12A
7A	2		M23-SSCPSTFSx07A	12B (opposite)	1		M23-SSCPSTFSx12B
9A (8+1)	8 1	1 2	M23-SSCPSTFSx09A	17A (Standard)	1		M23-SSCPSTFSx17A
9B (8+1)	8 1	1 2	M23-SSCPSTFSx09B	17B (opposite)	1		M23-SSCPSTFSx17B
9C (6+3)	6 3	1 2	M23-SSCPSTFSx09C	19A (16+3)	16 3	1 1.5	M23-SSCPSTFSx19A
16A	1		M23-SSCPSTFSx16A				

Note: Sx refer to Flange joint

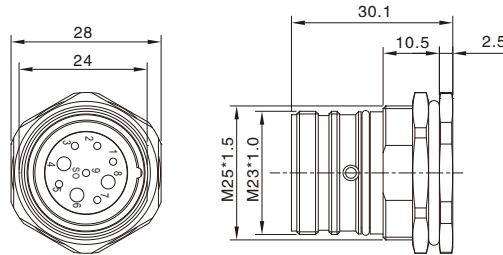
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Signal Panel Mount, Crimp, Front mount, Female Housing+Male Thread

- Connector series: M23 Signal
- Contacts: Socket
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: Crimp
- Part No.: M23-SSCSSTFSx***

*** refers to pins number
Sx refer to Screw joint



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 420

Electrical data & Mechanical data

Number of positions	6, 7	9(8+1)/(6+3)		12	16	17	19(16+3)	
Contacts	6, 7	8 / 6	1 / 3	12	16	17	16	3
Contact OD(mm)	2.0(14AWG)	1.0(18AWG)	2.0(14AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.0(18AWG)	1.5(16AWG)
Rated current @ 20℃(A)	20	8	20	8	8	8	8	10
Rated Voltage(V)	300	300	300	300	160	160	160	160
Impulse voltage(V)	2500	2500	2500	1500	1500	1500	1500	1500
Overvoltage category	II							
Pollution Degree	III							

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
6A	2		M23-SSCSSTFSx06A	12A (Standard)	1		M23-SSCSSTFSx12A
7A	2		M23-SSCSSTFSx07A	12B (opposite)	1		M23-SSCSSTFSx12B
9A (8+1)	8 / 1		M23-SSCSSTFSx09A	17A (Standard)	1		M23-SSCSSTFSx17A
9B (8+1)	8 / 1		M23-SSCSSTFSx09B	17B (opposite)	1		M23-SSCSSTFSx17B
9C (6+3)	6 / 3		M23-SSCSSTFSx09C	19A (16+3)	16 / 3		M23-SSCSSTFSx19A
16A	1		M23-SSCSSTFSx16A				

Note: Sx refer to Flange joint

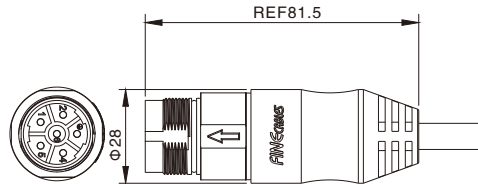
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Power Molded Cable, Straight, Male Thread

- Connector series: M23 Power
- Contacts: Pin
- Mounting type: Straight
- Shielding: Shielded or unshielded
- Connection Type: Crimp
- Part No.: M23-MPSPST***-XXXX (unshielded)
M23-MPSPST***-XXXX (shielded)

*** refers to pins number
XXXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
06 (5+PE)	2		M23-MPSPST06A-XXXX (unshielded) M23-MPSPST06A-XXXX (shielded)	08 (4+3+PE)	2		M23-MPSPST08A-XXXX (unshielded) M23-MPSPST08A-XXXX (shielded)
					1		

Note: X refers to cable specification

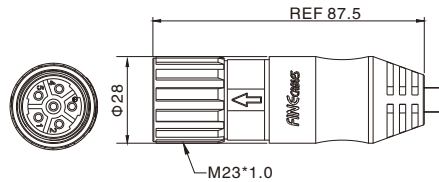
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Power Molded Cable, Straight, Female Thread

- Connector series: M23 Power
- Contacts: Socket
- Mounting type: Straight
- Shielding: Shielded or unshielded
- Connection Type: Crimp
- Part No.: M23-MPNSST***-XXXX (unshielded)
M23-MPNSST***-XXXX (shielded)

*** refers to pins number
XXXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
06 (5+PE)	2		M23-MPNSST06A-XXXX (unshielded) M23-MPNSST06A-XXXX (shielded)	08 (4+3+PE)	2 4		M23-MPNSST08A-XXXX (unshielded) M23-MPNSST08A-XXXX (shielded)

Note: X refers to cable specification

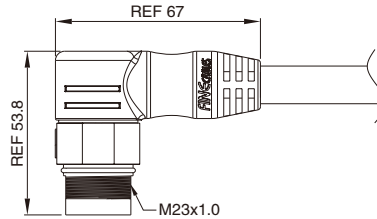
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Power Molded Cable, Right Angle, Male Thread

- Connector series: M23 Power
- Contacts: Pin
- Mounting type: Right Angle
- Shielding: Shielded or unshielded
- Connection Type: Crimp
- Part No.: M23-MPSPRA***-XXXX (unshielded)
M23-MPSSPRA***-XXXX (shielded)

*** refers to pins number
XXXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
06 (5+PE)	2		M23-MPSPRA06A-XXXX (unshielded) M23-MPSSPRA06A-XXXX (shielded)	08 (4+3+PE)	2		M23-MPSPRA08A-XXXX (unshielded) M23-MPSSPRA08A-XXXX (shielded)
					1		

Note: X refers to cable specification

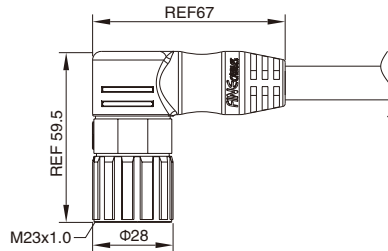
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Power Molded Cable, Right Angle, Female Thread

- Connector series: M23 Power
- Contacts: Socket
- Mounting type: Right Angle
- Shielding: Shielded or unshielded
- Connection Type: Crimp
- Part No.: M23-MPNSRA***-XXXX (unshielded)
M23-MPNSRA***-XXXX (shielded)

*** refers to pins number
XXXX refers to cable specification



General information



Connector overmold:	TPU
Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +80℃(fixed installation) -20℃ ~ +80℃(flexible installation)
IP rating:	IP68 in locked condition
Cable OD range:	2.0~13

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
06 (5+PE)	2		M23-MPNSRA06A-XXXX (unshielded) M23-MPNSRA06A-XXXX (shielded)	08 (4+3+PE)	2		M23-MPNSRA08A-XXXX (unshielded) M23-MPNSRA08A-XXXX (shielded)
					1		

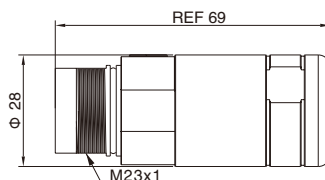
Note: X refers to cable specification

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 365 for products' part number encoding rule.

M23 Power Assembly Connector, Straight, Male Thread

- Connector series: M23 Power
- Contacts: Pin
- Mounting type: Straight
- Shielding: Shielded
- Connection Type: Crimp
- Part No.: M23-PSSPST***-XX
 - *** refers to pins number
 - XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Zinc alloy with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Cable OD range:	2.0~16
Assembly Instruction:	Refer to page 417

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
06 (5+PE)	2		M23-PSSPST06A-XX	08 (4+3+PE)	2		M23-PSSPST08A-XX
					1		

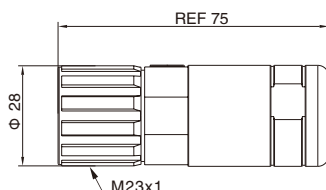
Note: X for cable OD rang

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Power Assembly Connector, Straight, Female Thread

- Connector series: M23 Power
- Contacts: Socket
- Mounting type: Straight
- Shielding: Shielded
- Connection Type: Crimp
- Part No.: M23-PNSSST***-XX
*** refers to pins number
XX for cable OD rang



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Zinc alloy with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Cable OD range:	2.0~16
Assembly Instruction:	Refer to page 417

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
06 (5+PE)	2		M23-PNSSST06A-XX	08 (4+3+PE)	2		M23-PNSSST08A-XX
				4	1		

Note: X for cable OD rang

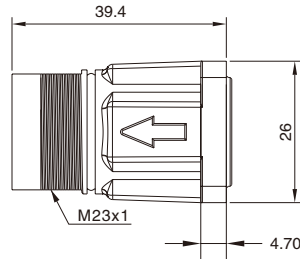
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 366 for products' part number encoding rule.

M23 Power, Panel Mount, Crimp, Male Thread

- Connector series: M23 Power
- Contacts: Pin
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: Crimp
- Part No.: M23-PSPSTFFx***-XXXX

Fx refer to Flange joint
*** refers to pins number
XXXX refers to cable specs



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Zinc alloy with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 418

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
06 (5+PE)	2		M23-PSPSTFFx06A-XXXX	08 (4+3+PE)	2		M23-PSPSTFFx08A-XXXX
					1		

Note: Fx refer to Flange joint, X refers to cable specs

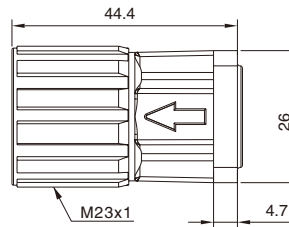
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Power, Panel Mount, Crimp, Female Thread

- Connector series: M23 Power
- Contacts: Socket
- Mounting type: Front mount
- Shielding: Unshielded
- Connection Type: Crimp
- Part No.: M23-PNSSTFFx***-XXXX

Fx refer to Flange joint
*** refers to pins number
XXXX refers to cable specs



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Zinc alloy with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 418

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
06 (5+PE)	2		M23-PNSSTFFx06A-XXXX	08 (4+3+PE)	2		M23-PNSSTFFx08A-XXXX
				4	1		

Note: Fx refer to Flange joint, X refers to cable specs

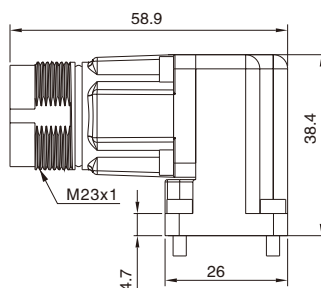
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Power, Panel Mount, Crimp, Male Thread, Right Angle Connector

- Connector series: M23 Power
- Contacts: Pin
- Mounting type: Right Angle, Front mount
- Shielding: Unshielded
- Connection Type: Crimp
- Part No.: M23-PSPRAFFx***-XXXX

Fx refer to Flange joint
*** refers to pins number
XXXX refers to cable specs



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Zinc alloy with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 419

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Pin	Part No.	Contacts	Contact OD (mm)	Pin	Part No.
06 (5+PE)	2		M23-PSPRAFFx06A-XXXX	08 (4+3+PE)	2		M23-PSPRAFFx08A-XXXX
				4	1		

Note: Fx refer to Flange joint, X refers to cable specs

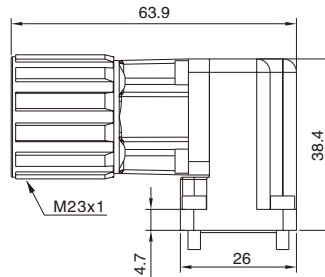
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Power ,Panel Mount, Crimp, Female Thread, Right Angle Connector

- Connector series: M23 Power
- Contacts: Socket
- Mounting type: Right Angle, Front mount
- Shielding: Unshielded
- Connection Type: Crimp
- Part No.: M23-PNSRAFFx***-XXXX

Fx refer to Flange joint
*** refers to pins number
XXXX refers to cable specs



General information



Connector insert:	PA
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Zinc alloy with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM or NBR
Operation cycles:	>800

Insulation resistance:	≥ 1000MΩ
Contact resistance:	≤ 5mΩ
Ambient temperature:	-40℃ ~ +125℃
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 419

Electrical data & Mechanical data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0(0.25~4.0mm ²)	1.0(0.08~1.0mm ²)	2.0(0.25~4.0mm ²)	
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	II			
Pollution Degree	III			

Contacts	Contact OD (mm)	Socket	Part No.	Contacts	Contact OD (mm)	Socket	Part No.
06 (5+PE)	2		M23-PNSRAFFx06A-XXXX	08 (4+3+PE)	2		M23-PNSRAFFx08A-XXXX
				4	1		

Note: Fx refer to Flange joint, X refers to cable specs

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 367 for products' part number encoding rule.

M23 Metal Protection Cap for male

- Connector series: M23
- Gender: Male
- Locking type: Fix screw
- Part No.: PCNM23*1.0-0



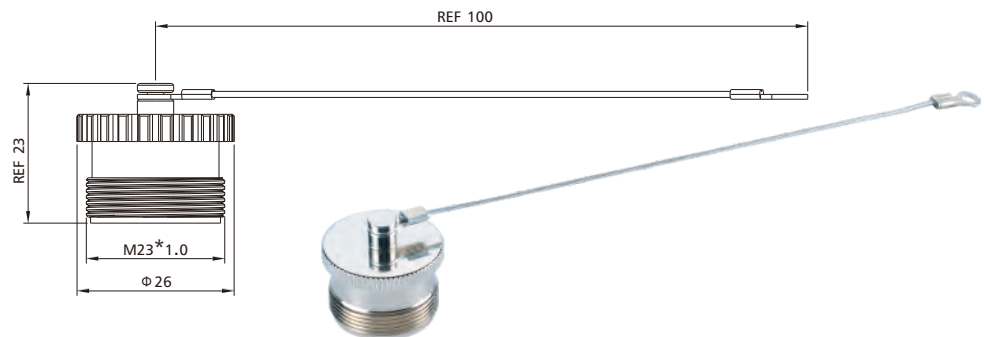
■ General information

Cap: Aluminium alloy with nickel plated
Dowel: Ferrum with nickel plated
Wire: Stainless steel wire

Terminal : M3 R type terminal (RNB1-3.2)
Gasket: Black NBR
IP rating: IP68 in locked condition

M23 Metal Protection Cap for female

- Connector series: M23
- Gender: female
- Locking type: Fix screw
- Part No.: PCSM23*1.0-0



■ General information

Cap: Aluminium alloy with nickel plated
Dowel: Ferrum with nickel plated
Wire: Stainless steel wire

Terminal : M3 R type terminal (RNB1-3.2)
O-Ring: FKM
IP rating: IP68 in locked condition

M23 Signal Connector Accessories

■ Type

■ Part number

■ Accessories

Assembly tool for M23 signal connectors
For connectors with female thread

M23-TOOL-1



■ Type

■ Part number

■ Accessories

Assembly tool for M23 signal connectors
For connectors with male thread

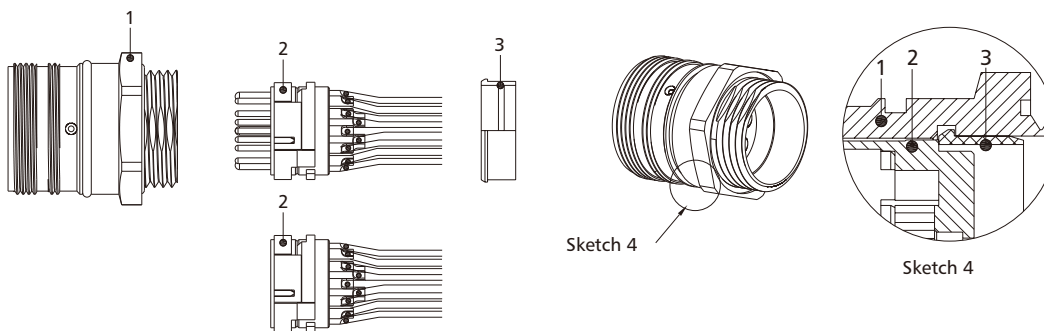
M23-TOOL-2



M23 Signal Solder Panel Type Assembly Instruction

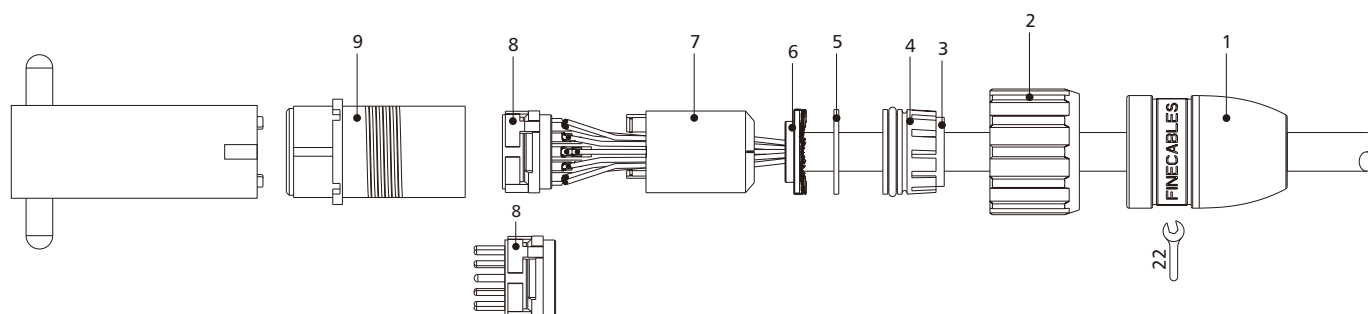
Assembly Instructions:

- a, Solder the wires to contact cup.
- b, Guide the insert 2 into the screw 1.
- c, Push the Fastening 3 into the screw 1 to reach snap-fit locking as per sketch 4.



M23 Signal Connectors/Assembly Instructions

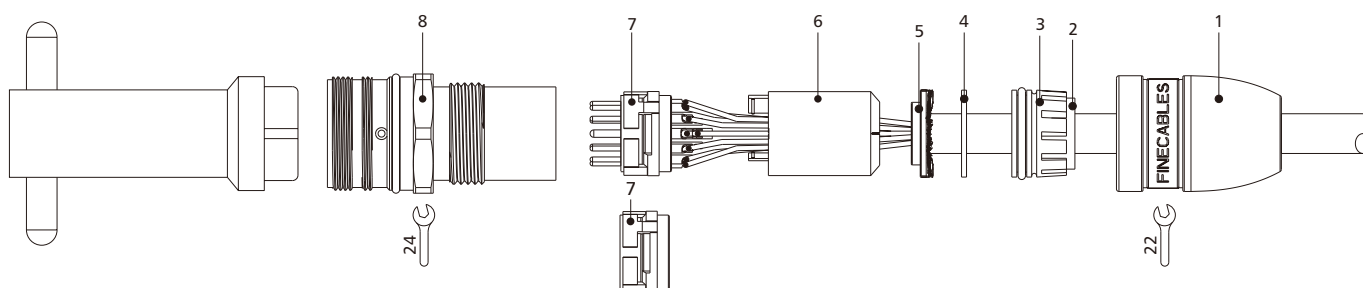
■ Straight Connector, Female Thread, Solder type



Assembly instructions:

- Push the adapter 1 nut 2 and the sealing element 4 with gasket 3 and metallic gasket 5 over the cable sheath;
- Strip the external sheath to a length of 24mm;
- Push back the shielding screen such that it stands out at 90 ° and cut it flush with the outer diameter of the shield disc 6;
- Strip the wires to a length of 2.5mm, twist and tin plate;
- Solder the wires to the contacts;
- Insert the spacer sleeve 7;
- Guide the insert 8 and spacer sleeve 7 into the insert sleeve 9;
- Press in the cable with the shield and sealing unit;
- Screw the adapter 1 as tight as possible;

■ Straight Connector, Male Thread, Solder type

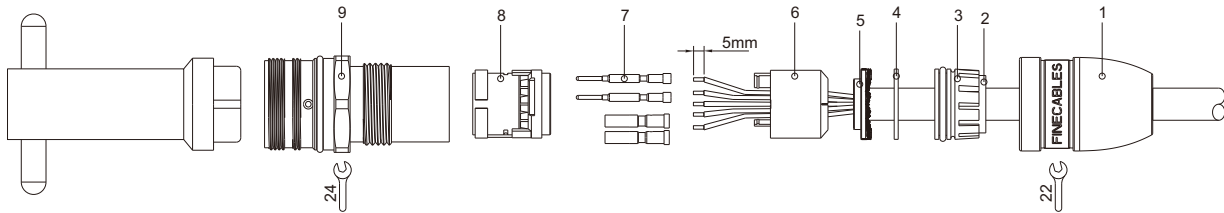


Assembly instructions:

- Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;
- Strip the external sheath to a length of 24mm;
- Push back the shielding screen such that it stands out at 90° and cut it flush with the outer diameter of the shield disc 5;
- Strip the wires to a length of 2.5mm, twist and tin plate;
- Solder the wires to the contacts;
- Insert the spacer sleeve 6;
- Guide the insert 7 and spacer sleeve 6 into the insert sleeve 8;
- Press in the cable with the shield and sealing unit;
- Screw the adapter 1 as tight as possible;

M23 Signal Connectors/Assembly Instructions

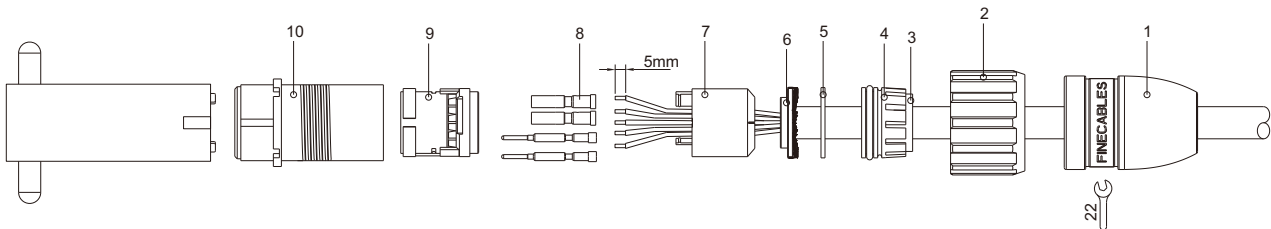
■ Straight Connector, Male Thread, Crimp type



Assembly instructions:

- Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;
- Strip the external sheath to a length of 20mm;
- Push back the shielding screen such that it stands out at 90° and cut it flush with the outer diameter of the shield disc 5;
- Strip the wires to a length of 5.0mm;
- Crimp the wires to the contacts 7;
- Insert the spacer sleeve 6;
- Guide the insert 8 and spacer sleeve 6 into the insert sleeve 9;
- Press in the cable with the shield and sealing unit;
- Screw the adapter 1 as tight as possible;

■ Straight Connector, Female Thread, Crimp type

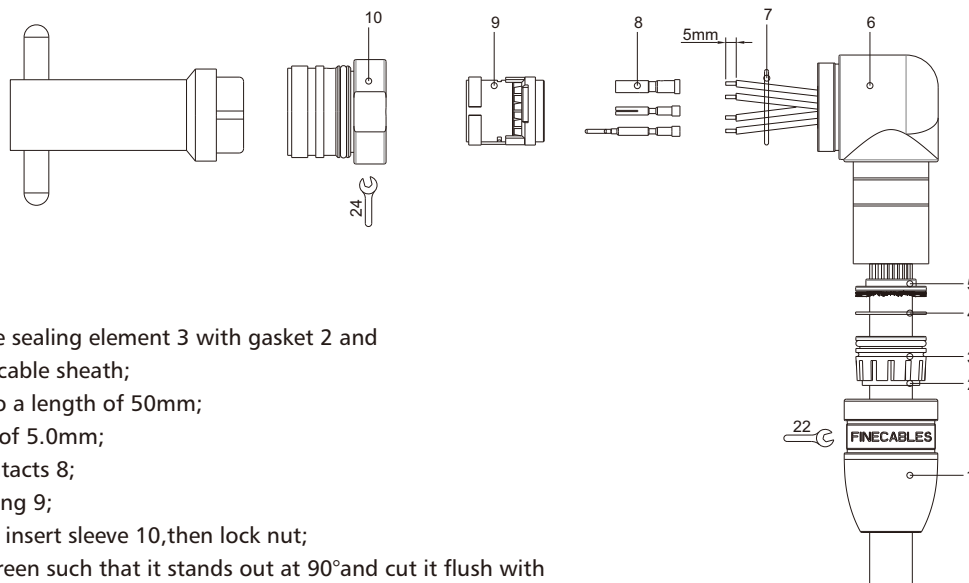


Assembly instructions:

- Push the adapter 1 nut 2 and the sealing element 4 with gasket 3 and metallic gasket 5 over the cable sheath;
- Strip the external sheath to a length of 20mm;
- Push back the shielding screen such that it stands out at 90° and cut it flush with the outer diameter of the shield disc 6;
- Strip the wires to a length of 5.0mm;
- Crimp the wires to the contacts 8;
- Insert the spacer sleeve 7;
- Guide the insert 9 and spacer sleeve 7 into the insert sleeve 10;
- Press in the cable with the shield and sealing unit;
- Screw the adapter 1 as tight as possible;

M23 Signal Connectors/Assembly Instructions

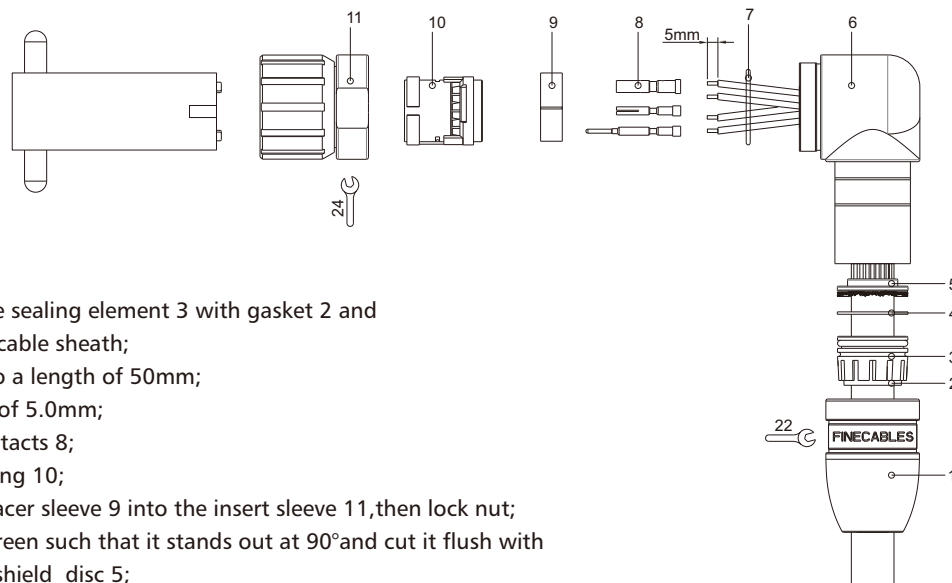
■ Right Angle Connector, Male Thread, Crimp type



Assembly instructions:

- Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;
- Strip the external sheath to a length of 50mm;
- Strip the wires to a length of 5.0mm;
- Crimp the wires to the contacts 8;
- Contacts 8 insert the housing 9;
- Guide the insert 9 into the insert sleeve 10, then lock nut;
- Push back the shielding screen such that it stands out at 90° and cut it flush with the outer diameter of the shield disc 5;
- Press in the cable with the shield and sealing unit;
- Screw the adapter 1 as tight as possible;

■ Right Angle Connector, Female Thread, Crimp type

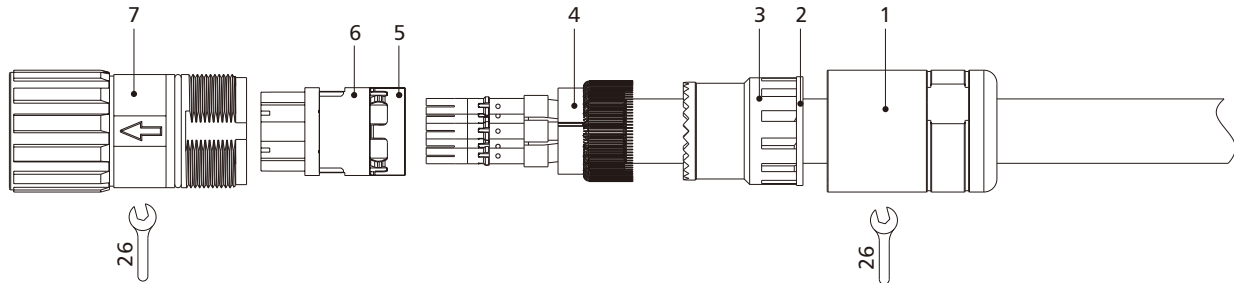


Assembly instructions:

- Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;
- Strip the external sheath to a length of 50mm;
- Strip the wires to a length of 5.0mm;
- Crimp the wires to the contacts 8;
- Contacts 8 insert the housing 9;
- Guide the insert 10 and spacer sleeve 9 into the insert sleeve 11, then lock nut;
- Push back the shielding screen such that it stands out at 90° and cut it flush with the outer diameter of the shield disc 5;
- Press in the cable with the shield and sealing unit;
- Screw the adapter 1 as tight as possible;

M23 Power Connectors/Assembly Instructions

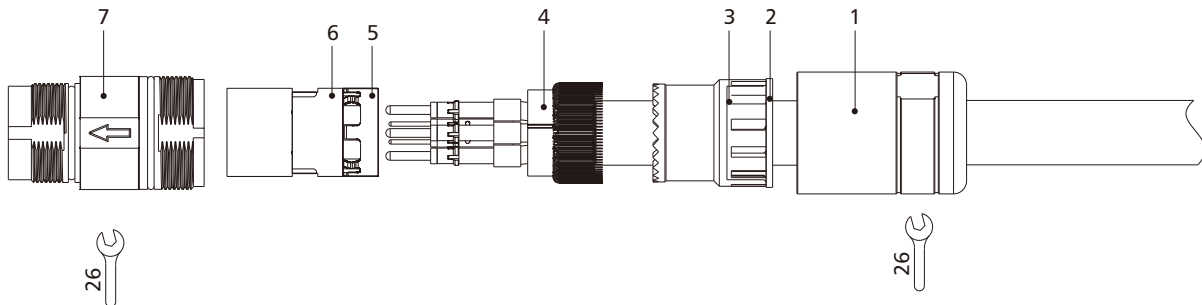
■ Straight Connector, Female Thread, Crimp type



Assembly instructions:

- Push the adapter 1 and the sealing element 3 with gasket 2 onto the cable;
- Strip the external sheath:30mm;
- Trim and remove the foil, wadding and inner insulation;
- Unbraid the braided screen and push it back;
- Strip the conductors insulation:9.0mm;
- Crimp the conductors to the contacts;
- Insert the contacts into contact carrier 6;
- Snap-fit earth spring 5 onto the contact carrier 6
- Open the spacer sleeve 4, fit it before the braided screen and clip them together;
- Guide the contact carrier 6 and the space sleeve 4 into the insert sleeve 7;
- Push up the braided screen and slide the sealing element 3 with the braided screen firmly against the space sleeve 4 until the teeth lock;
- Cut the shielding to length if necessary and twist the remaining shielding into the space provided 3;
- Screw the adapter 1 as tight as possible.

■ Straight Connector, Male Thread, Crimp type

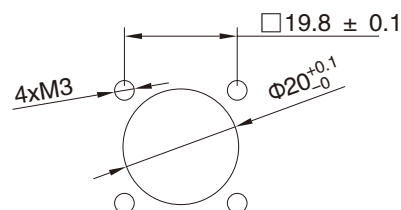
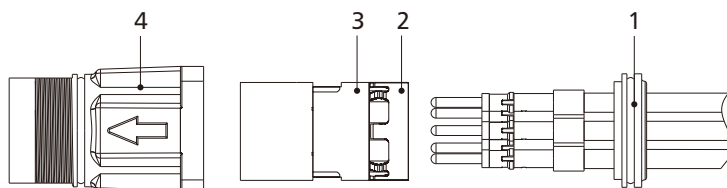


Assembly instructions:

- Push the adapter 1 and the sealing element 3 with gasket 2 onto the cable;
- Strip the external sheath:30mm;
- Trim and remove the foil, wadding and inner insulation;
- Unbraid the braided screen and push it back;
- Strip the conductors insulation:9.0mm;
- Crimp the conductors to the contacts;
- Insert the contacts into contact carrier 6;
- Snap-fit earth spring 5 onto the contact carrier 6
- Open the spacer sleeve 4, fit it before the braided screen and clip them together;
- Guide the contact carrier 6 and the space sleeve 4 into the insert sleeve 7;
- Push up the braided screen and slide the sealing element 3 with the braided screen firmly against the space sleeve 4 until the teeth lock;
- Cut the shielding to length if necessary and twist the remaining shielding into the space provided 3;
- Screw the adapter 1 as tight as possible.

M23 Power Panel Type Connectors/Assembly Instructions

■ Straight Connector, Male Thread, Crimp type

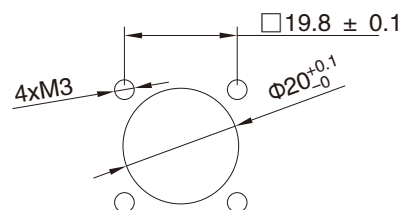
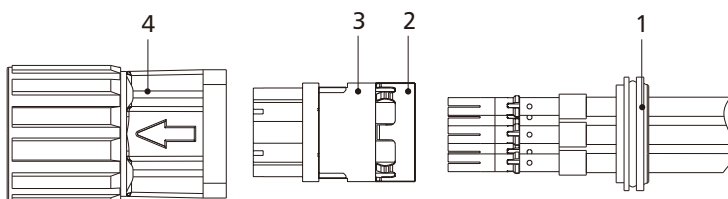


Installation dimensions

Assembly instructions:

- Strip the wires insulation: 9.0mm;
- Crimp the conductors to the contacts;
- Insert the contacts into contact carrier 3;
- Snap-fit earth spring 2 onto the contact carrier 3
- Guid the wires through the support ring 1;
- Guid the contact carrier 3 into the insert sleeve 4;
- Insert the support ring 1 in the sleeve 4;
- Fasten the assembled connectors to the mounting panel using screws(M3*0.5).

■ Straight Connector, Female Thread, Crimp type



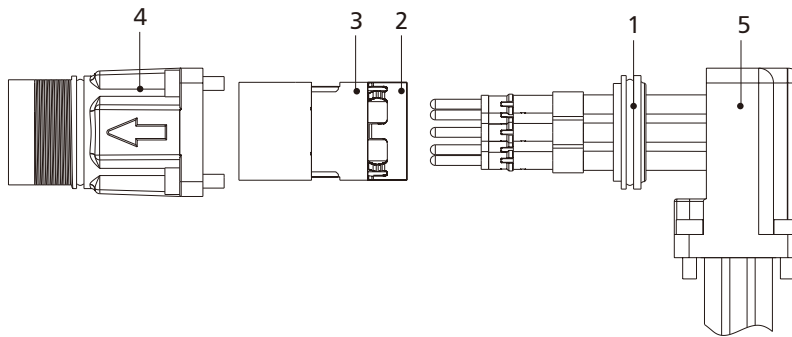
Installation dimensions

Assembly instructions:

- Strip the wires insulation: 9.0mm;
- Crimp the conductors to the contacts;
- Insert the contacts into contact carrier 3;
- Snap-fit earth spring 2 onto the contact carrier 3
- Guid the wires through the support ring 1;
- Guid the contact carrier 3 into the insert sleeve 4;
- Insert the support ring 1 in the sleeve 4;
- Fasten the assembled connectors to the mounting panel using screws(M3*0.5).

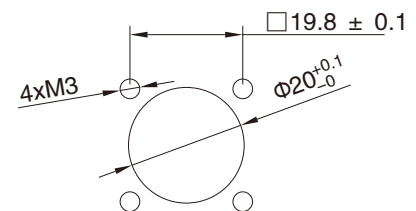
M23 Power Panel Type Connectors/Assembly Instructions

■ Angled Connector, Male Thread, Crimp type



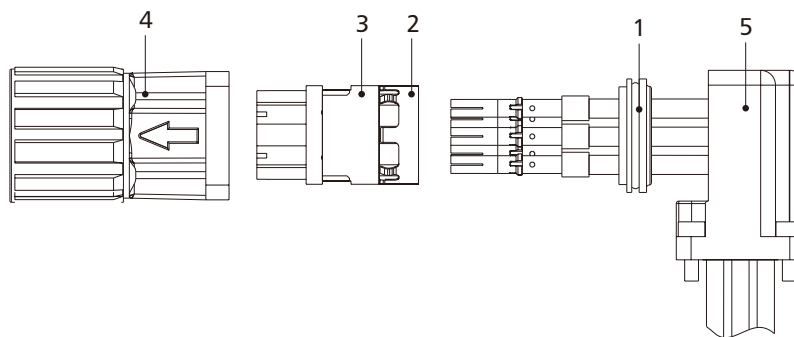
Assembly instructions:

- Strip the wires insulation:9.0mm;
- Crimp the conductors to the contacts and push them through the assembled angle housing 5 and support ring 1;
- Insert the contacts into contact carrier 3;
- Snap-fit earth spring 2 onto the contact carrier 3
- Guid the contact carrier 3 into the insert sleeve 4;
- Insert the support ring 1 in the sleeve 4;
- Fasten the assembled connectors to the angel housing 5 using screws(M3*0.5).



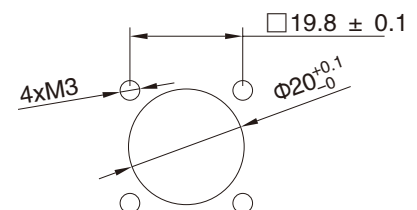
Installation dimensions

■ Angled Connector, Female Thread, Crimp type



Assembly instructions:

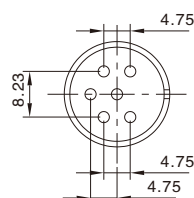
- Strip the wires insulation:9.0mm;
- Crimp the conductors to the contacts and push them through the assembled angle housing 5 and support ring 1;
- Insert the contacts into contact carrier 3;
- Snap-fit earth spring 2 onto the contact carrier 3
- Guid the contact carrier 3 into the insert sleeve 4;
- Insert the support ring 1 in the sleeve 4;
- Fasten the assembled connectors to the angel housing 5 using screws(M3*0.5).



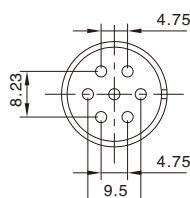
Installation dimensions

M23 PCB Layout & Panel Cut-out

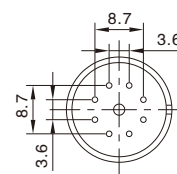
■ PCB Layout



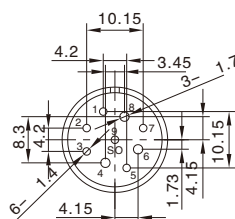
6P



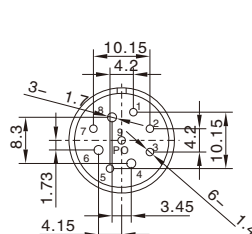
7P



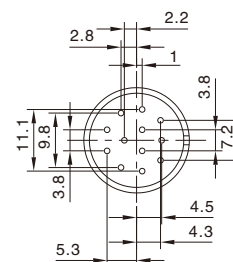
8+1P



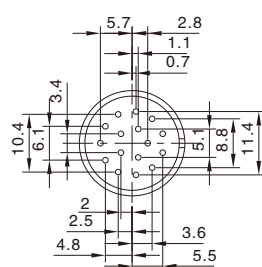
6+3P female



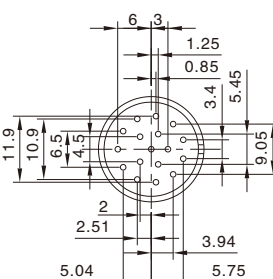
6+3P male



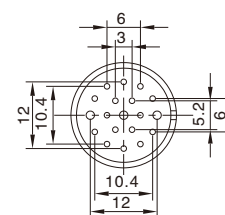
12P



16P

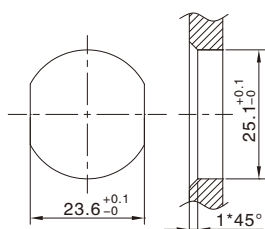


17P

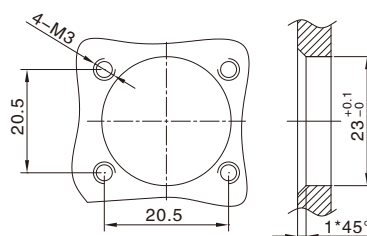


19P

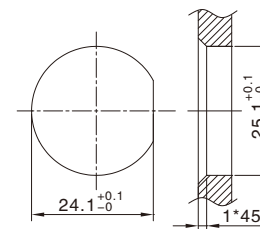
■ Panel Cut-out Dimensions



H-cutting



Flange-cutting



D-cutting