



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

• Connector series: M23 Signal

• Contacts: Pin

• Mounting type: Right Angle

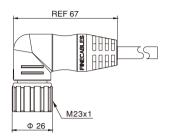
• Shielding: Shielded or unshielded

Connection Type: Solder/Crimp

• Part No.: M23-MSNPRA***-XXX (solder unshielded) M23-MSNSPRA***-XXX (solder shielded)

M23-MSNCPRA***-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°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	12 16		19(1	6+3)
Contacts	6,7	8/6 1/3		12	16	17	16	3
Contact OD(mm)	Contact OD(mm) 2.0(14AWG)		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	300 160		160	160
Impulse voltage(V) 2500 2500 2500 1		1500	1500	1500	1500	1500		
Overvoltage category	II							
Pollution Degree	III							

Conta	cts	Contact OD (mm)	Pin	Part No.	Contacts		Contact OD (mm)	Pin	Part No.		
6A		2	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	M23-MSNPRA06A- <u>XXX</u> (solder unshielded) M23-MSNSPRA06A- <u>XXX</u> (solder shielded) M23-MSNCPRA06A- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA06A- <u>XXX</u> (crimp shielded)	12A (Standard)		1	7 12 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	M23-MSNPRA12A- <u>XXX</u> (solder unshielded) M23-MSNSPRA12A- <u>XXX</u> (solder shielded) M23-MSNCPRA12A- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA12A- <u>XXX</u> (crimp shielded)		
7A		2		M23-MSNPRA07A- <u>XXX</u> (solder unshielded) M23-MSNSPRA07A- <u>XXX</u> (solder shielded) M23-MSNCPRA07A- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA07A- <u>XXX</u> (crimp shielded)	12B (opposite		12B (opposite)		1	2 10 12 7 9 8 9 7 2 10 12 7 9 9 9 8 8 3 11 6 4 5	M23-MSNPRA12B- <u>XXX</u> (solder unshielded) M23-MSNSPRA12B- <u>XXX</u> (solder shielded) M23-MSNCPRA12B- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA12B- <u>XXX</u> (crimp shielded)
9A	9A M23-		39 91 79 9 92 69 93	M23-MSNPRA09A- <u>XXX</u> (solder unshielded) M23-MSNSPRA09A- <u>XXX</u> (solder shielded) M23-MSNCPRA09A-XXX (crimp unshielded)	17A (Standard)		1	110 01 100 16 01 1302 100 16 01 1302 100 16 01 1302 100 01 01 01 01 100	M23-MSNPRA17A-XXX (solder unshielded) M23-MSNSPRA17A-XXX (solder shielded) M23-MSNCPRA17A-XXX (crimp unshielded) M23-MSNSCPRA17A-XXX (crimp shielded)		
(8+1) 1	2	50 04	M23-MSNSCPRA09A- <u>XXX</u> (crimp shielded)								
9B	9B 1 (20 20 07) M23-		10 08 20 9 07	M23-MSNPRA09B- <u>XXX</u> (solder unshielded) M23-MSNSPRA09B- <u>XXX</u> (solder shielded)	17B		4	8 C 6 C 6 C 6 C 6 C 6 C 6 C 6 C 6 C 6 C	M23-MSNPRA17B- <u>XXX</u> (solder unshielded) M23-MSNSPRA17B- <u>XXX</u> (solder shielded)		
(8+1) 1		2	3 0 6 4 0 5	M23-MSNCPRA09B- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA09B- <u>XXX</u> (crimp shielded)		(opposite)		14 9 5 80 59 6 97	M23-MSNCPRA17B- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA17B- <u>XXX</u> (crimp shielded)		
9C	-		7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M23-MSNPRA09C- <u>XXX</u> (solder unshielded) M23-MSNSPRA09C- <u>XXX</u> (solder shielded)	19A	16	1	19 19 19 19 19 19 19 19 19 19 19 19 19 1	M23-MSNPRA19A- <u>XXX</u> (solder unshielded) M23-MSNSPRA19A- <u>XXX</u> (solder shielded)		
(6+3)	3	2	5 P 3	M23-MSNCPRA09C- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA09C- <u>XXX</u> (crimp shielded)	(16+3) 3	3	1.5	9 0 0 014 0 15 0 15 0 0	M23-MSNCPRA19A- <u>XXX</u> (crimp unshielded) M23-MSNSCPRA19A- <u>XXX</u> (crimp shielded)		
16A	١	1	100 10 01 100 100 100 100 100 100 100 1	M23-MSNPRA16A-XXX (solder unshielded) M23-MSNSPRA16A-XXX (solder shielded) M23-MSNCPRA16A-XXX (crimp unshielded) M23-MSNSCPRA16A-XXX (crimp shielded)							

Note: \underline{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.

