

MSC Series Sealed Connector

User's Guide

BOLT



Thank you for purchasing product of SAMWON ACT.
 Please check model of product that you purchase first, and read this manual prior to use it.

● Caution for Safety

Please read the safety information and precautions for the product before use.
 In this manual, safety precautions are classified into [Caution] and [Warning] according to their importance.

⚠ Caution If you don't follow the rules, it may result in serious damage to equipment, fire, or personal accident.

⚠ Warning If you don't follow the rules, damage such as minor device damage or injury may occur.

⚠ Caution

1. To prevent damage and breakdown of this product, supply the power voltage appropriate for the rating.
2. To prevent electric shock and product failure, do not turn on the power until all wiring is completed.

⚠ Warning

1. Ensure that consistent with your order specifications.
2. Use within the specified temperature range. (−10℃~+80℃)
3. Don't make too much impact. This may result in the inability to keep the pressure seal.
4. Check if there is an O-ring and installing. This may result in the inability to keep the pressure seal.

● Model Selection

Model	No. of pin	Contact Size	Applicable Connector		Rating classification
			The outside	The inside	
MSC00-20-4B	4	#12	MS3106□20-4S	MS3106□20-4P	D
MSC00-20-15B	7	#12	MS3106□20-15S	MS3106□20-15P	A
MSC00-20-27B	14	#16	MS3106□20-27S	MS3106□20-27P	A
MSC00-20-29B	17	#16	MS3106□20-29S	MS3106□20-29P	A
MSC00-22-14B	19	#16	MS3106□22-14S	MS3106□22-14P	A
MSC00-22-18B	8	#16	MS3106□22-18S	MS3106□22-18P	A
MSC00-22-22B	4	#8	MS3106□22-22S	MS3106□22-22P	A
MSC00-22-23B	8	#12	MS3106□22-23S	MS3106□22-23P	A

● Rated voltage

Rating classification	Rated voltage (V)		The shortest distance between conductors
	DC	AC(r.m.s)	
A	700	500	1.6mm
D	1,250	900	3.2mm

● Rated current

Contact Size	PIN diameter	Current capacity (A)
#16	Ø1.6	13
#12	Ø2.4	23
#8	Ø3.6	46

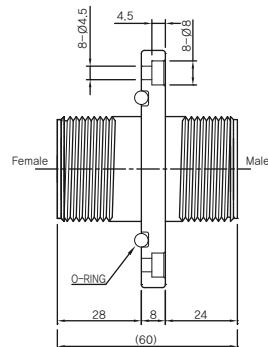
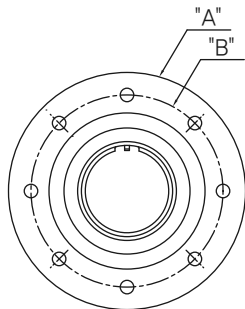
● Pressure seal and General specifications

Pressure seal	1 X 10 ⁻⁷ torr (Helium Leak Rate)
Insulation resistance	2,000MΩ min. (at DC500V)
Withstanding voltage	AC2,000V 2sec
Temperature	−10℃ ~ +80℃

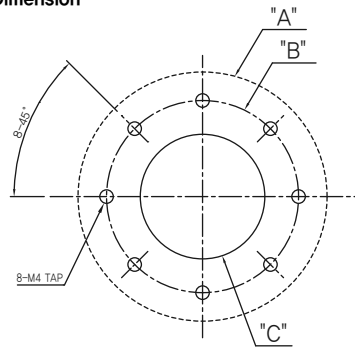
● Material and Treatment

Body	AL alloy 6061
Metal Finishing	Anodizing
Contact	Brass / Electroless nickel plating
O-Ring	Viton O-RING
Rubber Shell	CR (Chloroprene Rubber)

• Dimension



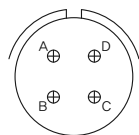
• Dimension



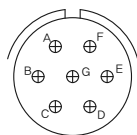
Shell Size	20	22
A	$\varnothing 75 \pm 0.1$	$\varnothing 79 \pm 0.1$
B	$\varnothing 60 \pm 0.1$	$\varnothing 64 \pm 0.1$
C	$\varnothing 33.5$	$\varnothing 37.5$

• Contact Arrangement

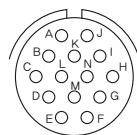
– Shell Size 20 (Female)



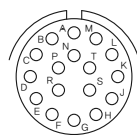
[20-4]



[20-15]



[20-27]



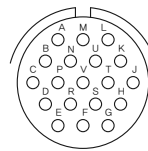
[20-29]

Insert Arrangement	20-4	20-15	20-27	20-29
Number of Contacts	4	7	14	17
Contact Size	#12	#12	#16	#16

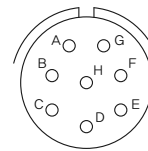
• Contact arrangement on the Male side is Female symmetric.

– Shell Size 22 (Female)

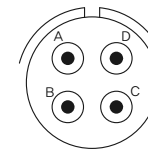
Contact Legend



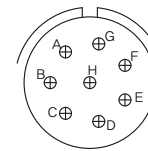
[22-14]



[22-18]



[22-22]



[22-23]

Insert Arrangement	22-14	22-18	22-22	22-23
Number of Contacts	19	8	4	8
Contact Size	#16	#16	#8	#12

• Contact arrangement on the Male side is Female symmetric.

※ The above specifications are subject to change without notice.

※ Please contact HQ or branch office where you purchased product for A/S of this product or technique.



HQ : 47035, 28, Daedong-ro, Sasang-gu, Busan
TEL : (051)320-7777 FAX : (051)312-2233
SEOUL Office: 14353, M Cluster-707, 17, Deogan-ro
104beon-gil, Gwangmyeong-si, Gyeonggi-do
TEL : (02)837-2230 FAX : (02)837-2226

NO.201407-OM-ENG-MS-C01