

MSC Series Sealed Connector

User's Guide

FLANGE



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.

● Model Selection

| Model | No. of pin | Contact Size | Applicable Connector | | Rating classification |
|--------------|------------|--------------|----------------------|---------------|-----------------------|
| | | | The outside | The inside | |
| MSC40-20-4B | 4 | #12 | MS3106□20-4S | MS3106□20-4P | D |
| MSC40-20-15B | 7 | #12 | MS3106□20-15S | MS3106□20-15P | A |
| MSC40-20-27B | 14 | #16 | MS3106□20-27S | MS3106□20-27P | A |
| MSC40-20-29B | 17 | #16 | MS3106□20-29S | MS3106□20-29P | A |
| MSC50-22-14B | 19 | #16 | MS3106□22-14S | MS3106□22-14P | A |
| MSC50-22-18B | 8 | #16 | MS3106□22-18S | MS3106□22-18P | A |
| MSC50-22-22B | 4 | #8 | MS3106□22-22S | MS3106□22-22P | A |
| MSC50-22-23B | 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 |

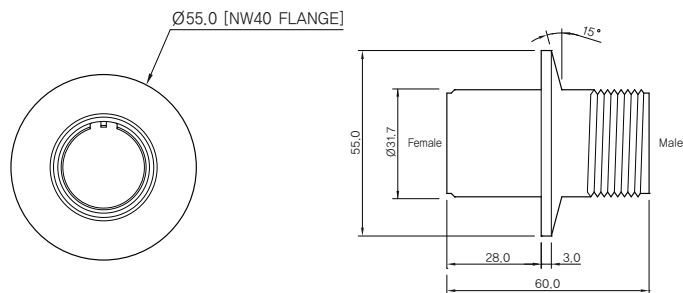
● Pressure seal and General specifications

| | |
|-----------------------|--|
| 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℃ |

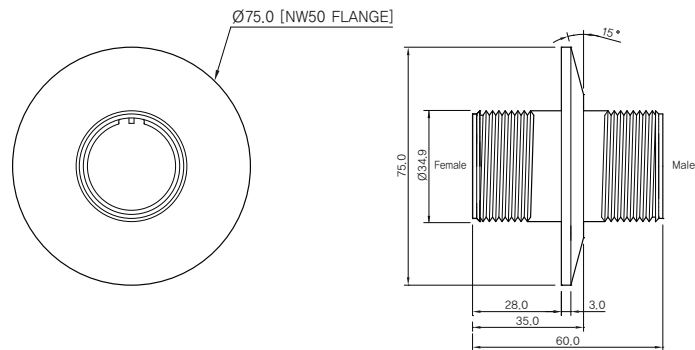
● Material and Treatment

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

● Dimension (MSC40)

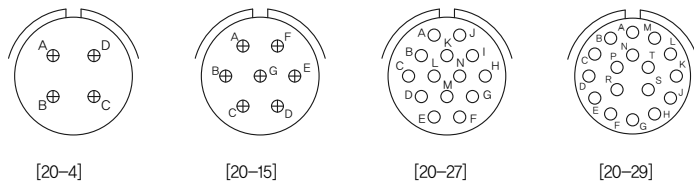


● Dimension (MSC50)



● Contact Arrangement

– Shell Size 20 (Female)

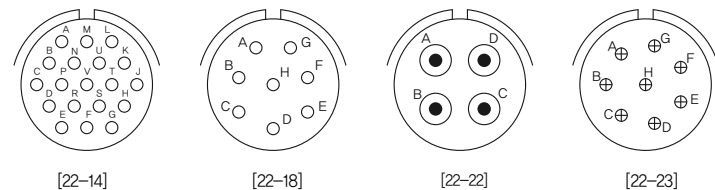


| Insert Arrangement | 20-4 | 20-15 | 20-27 | 20-29 |
|--------------------|------|-------|-------|-------|
| Number of Contacts | 4 | 7 | 14 | 17 |
| Contact Size | #12 | #12 | #16 | #16 |

• Contact arrangement on the Male side is Female symmetric.

– Shell Size 22 (Female)

Contact Legend



| 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.