

# 目录 CONTENTS



MIL-C-5015 SERIES

1-21



MIL-C-26482 SERIES

22-38



VG 95234 SERIES

39-51

## 概述 (Overview)

这个系列连接器最初是被设计用于军事设备，但今天被低成本广泛应用的各个领域。例如MIL-C-5015系列被用于工业连接器产品、像需要高水平的可靠性的，如医疗设备、电动汽车、工业建筑机械、机器人等领域。MIL-C-5015系列采用螺纹连接产品在系列“A”和“B”通用类型，而“E”、“F”、“R”类型防水型尾夹。这样接头尺寸和连接方式就相互耦合符合MIL-C-5015标准

This connector was originally designed for military equipments and today it is widely applied at low costs in various industries. In particular, the MIL-C-5015 Style Connector is used in industrial products which require high levels of reliability such as medical equipments, electric cars, industrial building machinery, robots, and etc., The MIL-C-5015 Style uses a screw type coupling method and Soldering type coupling is used to contact the connector cables. Products in Class "A" and "B" are not waterproof types, whereas Class "E", "F", and "R" types use insulating packing materials which enable the back of the connector cables to be waterproof. The Class "F" and "R" type LMS3106/LMS3108 plug connector's have an O-ring which enables the entire connector to be waterproof. This connector's measurements regarding mutual coupling and contact arrangements are consistent with the MIL-C-5015 standards.



# HWMS Series

MIL-C-5015 Style Connector  
ISO 9001/ISO14001



## 常用耦合指南 (Mating Face View)



## 选型说明 (Ordering Information)

### Military Nomenclature



### HWMS Number shell Style

- HWMS3100-Wall mounting Receptacle  
墙式安装插座
- HWMS3101-Cable connecting Plug  
电缆连接插座
- HWMS3102-Box mounting Receptacle  
盒式安装插座
- HWMS3106-Straight Plug  
直插头
- HWMS3108-90°Angle Plug  
90°弯插头

### Class

- A-Solid Shell for general, non-environmental applications  
固定后部外壳，适用于直插头
- E-With resilient insulator and integral clamp for cable strain relief  
扣环密封盒后部壳体拉抗
- F-Same as E, However style 3106 with O-ring seal under the coupling nut  
3106F包括密封前垫片，其他类型与E相同
- R-With resilient insulator and shortened, lightweight endbell (additional sealing with O-ring under the coupling nut for shell styles 3106 and 3108)  
扣环密封，体积小，长度短

- Shell Size  
10SL, 12S, 12, 14S, 14, 16S, 16, 18, 20, 22, 24, 28, 32, 36
- Contact Arrangement  
见15-21页
- Contact Style  
P - Pin Contact  
S - Socket Contact
- Alternate Insert Position  
N(Normal), W, X, Y, Z

## 技术资料 (Technical Data)

### 材质与外壳表面处理 (Standard Materials and Finishes)

| Portion 部分     | Materials 材质                     | Finishes 外壳表面处理   |
|----------------|----------------------------------|---|
| 外壳 (Shell)     | Aluminum alloy 铝合金               | Olive drab chromate coating over cadmium or zinc plating. |
| 端子 (Insulator) | Polychloroprene (resilient)铜或铜合金 | 橄榄绿镀镉或锌镀层   |
| 插芯 (contacts)  | Brass or Copper alloy 塑料或橡胶      | Silver plate 镀银   |

### 产品性能 (Electrical Data)

|                                    |                            |
|------------------------------------|----------------------------|
| 绝缘阻抗 (Insulation Resistance)       | 5,000MΩ Min.(at 25℃)       |
| 工作温度 (Operating Temperature Range) | -55℃ ~ +125℃               |
| 插拔次数 (Durability)                  | 500 cycle, mate and unmate |

### 插针服务等级 (Contact Arrangements Service Rating)

| Service Rating | Dielectric Withstanding Voltage |                   |       | Contact Engaging & Separating Force |              |         |         |
|----------------|---------------------------------|-------------------|-------|-------------------------------------|--------------|---------|---------|
|                | Test Voltage AC(rms)            | Operating Voltage |       | Contact Size                        | Force in Lbs |         |         |
|                |                                 | AC (rms)          | DC    |                                     | Maximum      | Average | Minimum |
| inst.          | 1,000                           | 200               | 250   | 16                                  | 3.00         | 2.06    | 0.13    |
| A              | 2,000                           | 500               | 700   | 12                                  | 5.00         | 3.50    | 0.19    |
| D              | 2,800                           | 900               | 1,250 | 8                                   | 10.00        | -       | 0.31    |
| E              | 3,500                           | 1,250             | 1,750 | 4                                   | 15.00        | -       | 0.63    |
| B              | 4,500                           | 1,750             | 2,450 | 0                                   | 20.00        | -       | 0.94    |
| C              | 7,000                           | 3,000             | 4,200 |                                     |              |         |         |

### Altitude Voltage Derating Chart 耐电压

| Service Rating | Nominal Distance |          | Standard Sea Level Conditions     |                      | Pressure Altitude 70,000 ft       |                      |
|----------------|------------------|----------|-----------------------------------|----------------------|-----------------------------------|----------------------|
|                | Airspace         | Creepage | Minimum Flashover Voltage AC(rms) | Test Voltage AC(rms) | Minimum Flashover Voltage AC(rms) | Test Voltage AC(rms) |
| inst.          | 1/32             | 1/16     | 1400                              | 1,000                | 325                               | 260                  |
| A              | 1/16             | 1/8      | 2800                              | 2,000                | 450                               | 360                  |
| D              | 1/8              | 3/16     | 3600                              | 2,800                | 500                               | 400                  |
| E              | 3/16             | 1/4      | 4500                              | 3,500                | 550                               | 440                  |
| B              | 1/4              | 5/16     | 5700                              | 4,500                | 600                               | 480                  |
| C              | 5/16             | 1        | 8500                              | 7,000                | 700                               | 560                  |

| Contact Size | Pin Contact Dia. | Solder Pot Dia. | Current(A) Rating (Mated With Insulators) | Contact Resistance |                        | Wire Range Accommodations |                              |                                |
|--------------|------------------|-----------------|---|--------------------|------------------------|---------------------------|------------------------------|--------------------------------|
|              |                  |                 |   | Test Current (A)   | Potential Drop Max(mV) | Wire Size (AWG)           | Wire Normal Square Size(mm²) | Dielectric Material Outer Dia. |
| 16           | 1.6              | 2.0             | 13A                                       | 20A                | 21                     | 16~22                     | ≤ 1.3                        | 1.7~3.3                        |
| 12           | 2.4              | 3.0             | 23A                                       | 35A                | 20                     | 12~14                     | ≤ 3.5                        | 2.9~4.3                        |
| 8            | 3.6              | 5.2             | 46A                                       | 60A                | 12                     | 8~10                      | ≤ 8.0                        | 4.2~6.4                        |
| 4            | 5.7              | 8.5             | 80A                                       | 110A               | 10                     | 6~4                       | ≤ 22.0                       | 7.0~9.4                        |
| 0            | 9.1              | 12.0            | 150A                                      | 200A               | 10                     | 0~2                       | ≤ 50.0                       | 10.6~14.0                      |



# MIL-C-5015 Style Class A/E/F/R

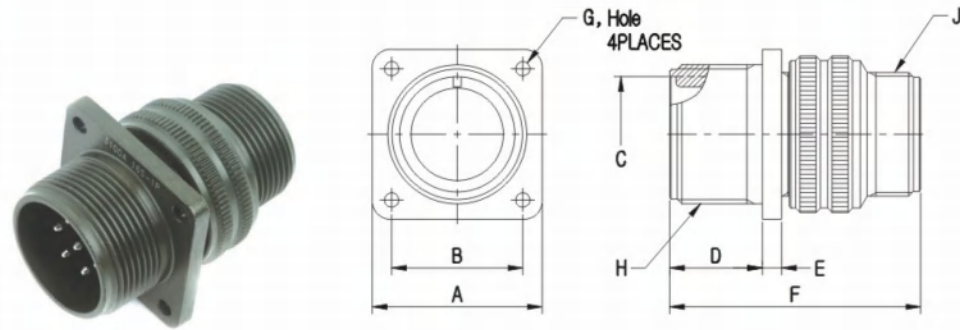
## Wall Mounting Receptacle (HWMS3100) 墙式安装插座

HWMS3100 CLASS "A"

可以适应尾部附件比如HWMS3057

排除绝缘垫圈和套管

Can be used with accessories such as HWMS3057 at the endbell.  
Excludes grommet and bushing.



UNIT: mm

| Part Number        | A<br>±0.79 | B<br>±0.12 | C Dia.<br>+0.38<br>-0.00 | D<br>+0.79<br>-0.00 | E<br>Max./Min. | F<br>Max. | G Dia.<br>+0.25<br>-0.13 | H Thread.<br>(Class : 2A) | J Thread.<br>(Class : 2A) |
|--------------------|------------|------------|--------------------------|---------------------|----------------|-----------|--------------------------|---------------------------|---------------------------|
| HWMS3100A10SL-xxxx | 25.40      | 18.26      | 11.38                    | 14.28               | 3.96/1.58      | 38.88     | 3.05                     | 5/8-24UNEF                | 5/8-24UNEF                |
| HWMS3100A12S-xxxx  | 27.79      | 20.62      | 14.15                    | 14.28               | 3.96/1.58      | 42.87     | 3.05                     | 3/4-20UNEF                | 5/8-24UNEF                |
| HWMS3100A12-xxxx   | 27.79      | 20.62      | 14.15                    | 19.05               | 3.96/1.58      | 52.37     | 3.05                     | 3/4-20UNEF                | 5/8-24UNEF                |
| HWMS3100A14S-xxxx  | 30.18      | 23.01      | 17.33                    | 14.28               | 3.96/1.58      | 42.87     | 3.05                     | 7/8-20UNEF                | 3/4-20UNEF                |
| HWMS3100A14-xxxx   | 30.18      | 23.01      | 17.33                    | 19.05               | 3.96/1.58      | 52.37     | 3.05                     | 7/8-20UNEF                | 3/4-20UNEF                |
| HWMS3100A16S-xxxx  | 32.54      | 24.61      | 20.50                    | 14.28               | 3.96/1.58      | 42.87     | 3.05                     | 1-20UNEF                  | 7/8-20UNEF                |
| HWMS3100A16-xxxx   | 32.54      | 24.61      | 20.50                    | 19.05               | 3.96/1.58      | 52.37     | 3.05                     | 1-20UNEF                  | 7/8-20UNEF                |
| HWMS3100A18-xxxx   | 34.93      | 26.97      | 23.68                    | 19.05               | 5.12/2.39      | 52.37     | 3.05                     | 1 1/8-18UNEF              | 1-20UNEF                  |
| HWMS3100A20-xxxx   | 38.10      | 29.36      | 26.88                    | 19.05               | 5.12/2.39      | 55.57     | 3.05                     | 1 1/4-18UNEF              | 1 3/16-18UNEF             |
| HWMS3100A22-xxxx   | 41.28      | 31.75      | 30.03                    | 19.05               | 5.12/2.39      | 55.57     | 3.05                     | 1 3/8-18UNEF              | 1 3/16-18UNEF             |
| HWMS3100A24-xxxx   | 44.45      | 34.93      | 33.20                    | 20.63               | 5.12/2.39      | 58.72     | 3.73                     | 1 1/2-18UNEF              | 1 7/16-18UNEF             |
| HWMS3100A28-xxxx   | 50.80      | 39.67      | 38.77                    | 20.63               | 5.12/2.39      | 58.72     | 3.73                     | 1 3/4-18UNEF              | 1 7/16-18UNEF             |
| HWMS3100A32-xxxx   | 57.15      | 44.45      | 45.12                    | 22.23               | 9.11/3.18      | 61.92     | 4.39                     | 2-18UNS                   | 1 3/4-18UNS               |
| HWMS3100A36-xxxx   | 63.50      | 49.23      | 50.68                    | 22.23               | 9.11/3.18      | 61.92     | 4.39                     | 2 1/4-16UN                | 2-18UNS                   |

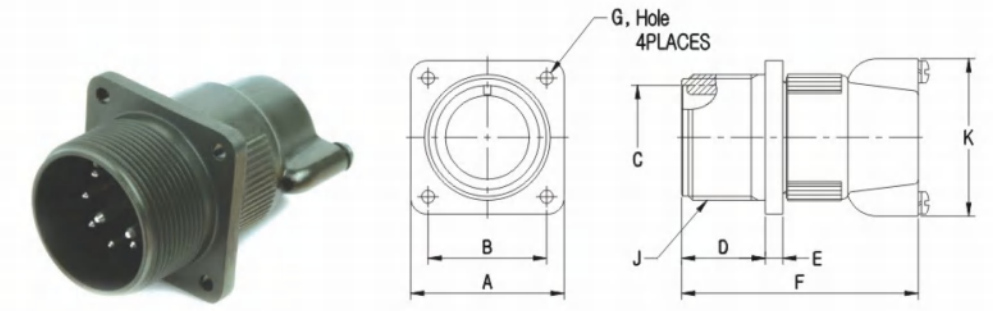
# MIL-C-5015 Style Class A/E/F/R

## Wall Mounting Receptacle (HWMS3100)

HWMS3100 CLASS "R"

包含绝缘垫圈和套管

Includes grommet and bushing.



UNIT: mm

| Part Number        | A<br>±0.79 | B<br>±0.12 | C Dia.<br>+0.38<br>-0.00 | D<br>+0.79<br>-0.00 | E<br>Max./Min. | F<br>Max. | G Dia.<br>+0.25<br>-0.13 | K<br>Max. | J Thread.<br>(Class : 2A) |
|--------------------|------------|------------|--------------------------|---------------------|----------------|-----------|--------------------------|-----------|---------------------------|
| HWMS3100R10SL-xxxx | 25.40      | 18.26      | 11.38                    | 14.28               | 3.96/1.58      | 46.69     | 3.05                     | 24.4      | 5/8-24UNEF                |
| HWMS3100R12S-xxxx  | 27.79      | 20.62      | 14.15                    | 14.28               | 3.96/1.58      | 46.69     | 3.05                     | 24.4      | 3/4-20UNEF                |
| HWMS3100R12-xxxx   | 27.79      | 20.62      | 14.15                    | 19.05               | 3.96/1.58      | 55.40     | 3.05                     | 24.4      | 3/4-20UNEF                |
| HWMS3100R14S-xxxx  | 30.18      | 23.01      | 17.33                    | 14.28               | 3.96/1.58      | 46.69     | 3.05                     | 29.0      | 7/8-20UNEF                |
| HWMS3100R14-xxxx   | 30.18      | 23.01      | 17.33                    | 19.05               | 3.96/1.58      | 55.40     | 3.05                     | 29.0      | 7/8-20UNEF                |
| HWMS3100R16S-xxxx  | 32.54      | 24.61      | 20.50                    | 14.28               | 3.96/1.58      | 46.69     | 3.05                     | 31.5      | 1-20UNEF                  |
| HWMS3100R16-xxxx   | 32.54      | 24.61      | 20.50                    | 19.05               | 3.96/1.58      | 55.40     | 3.05                     | 31.5      | 1-20UNEF                  |
| HWMS3100R18-xxxx   | 34.93      | 26.97      | 23.68                    | 19.05               | 5.12/2.39      | 55.40     | 3.05                     | 36.6      | 1 1/8-18UNEF              |
| HWMS3100R20-xxxx   | 38.10      | 29.36      | 26.88                    | 19.05               | 5.12/2.39      | 55.40     | 3.05                     | 39.7      | 1 1/4-18UNEF              |
| HWMS3100R22-xxxx   | 41.28      | 31.75      | 30.03                    | 19.05               | 5.12/2.39      | 55.40     | 3.05                     | 39.7      | 1 3/8-18UNEF              |
| HWMS3100R24-xxxx   | 44.45      | 34.93      | 33.20                    | 20.63               | 5.12/2.39      | 55.40     | 3.73                     | 47.4      | 1 1/2-18UNEF              |
| HWMS3100R28-xxxx   | 50.80      | 39.67      | 38.77                    | 20.63               | 5.12/2.39      | 55.40     | 3.73                     | 47.4      | 1 3/4-18UNEF              |
| HWMS3100R32-xxxx   | 57.15      | 44.45      | 45.12                    | 22.23               | 9.11/3.18      | 58.98     | 4.39                     | 55.9      | 2-18UNS                   |
| HWMS3100R36-xxxx   | 63.50      | 49.23      | 50.68                    | 22.23               | 9.11/3.18      | 58.98     | 4.39                     | 60.8      | 2 1/4-16UN                |

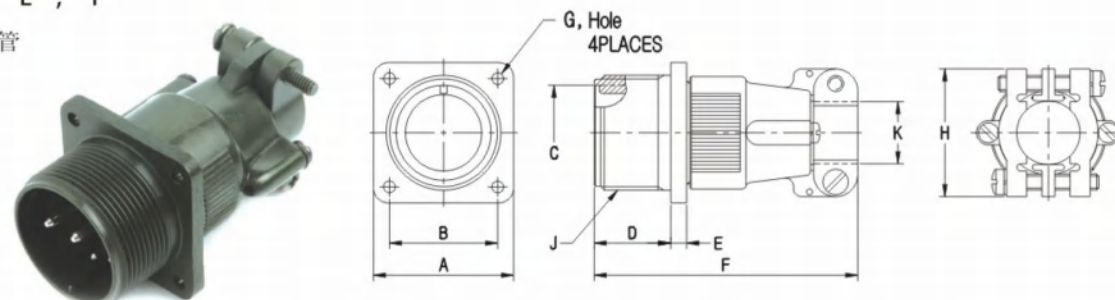
## Wall Mounting Receptacle (HWMS3100)

墙式安装插座

HWMS3100 CLASS "E", "F"

包含绝缘垫圈和套管

Includes grommet and bushing.



UNIT: mm

| Part Number        | A<br>±0.79 | B<br>±0.12 | C Dia.<br>+0.38<br>-0.00 | D<br>+0.79<br>-0.00 | E<br>Max./Min. | F<br>Max. | G Dia.<br>+0.25<br>-0.13 | H<br>Max. | * K Dia.<br>Max. | J Thread.<br>(Class : 2A) |
|--------------------|------------|------------|--------------------------|---------------------|----------------|-----------|--------------------------|-----------|------------------|---------------------------|
| HWMS3100x10SL-xxxx | 25.40      | 18.26      | 11.38                    | 14.28               | 3.96/1.58      | 57.15     | 3.05                     | 22.7      | 6.5              | 5/8-24UNEF                |
| HWMS3100x12S-xxxx  | 27.79      | 20.62      | 14.15                    | 14.28               | 3.96/1.58      | 57.15     | 3.05                     | 22.7      | 6.5              | 3/4-20UNEF                |
| HWMS3100x12-xxxx   | 27.79      | 20.62      | 14.15                    | 19.05               | 3.96/1.58      | 66.68     | 3.05                     | 22.7      | 6.5              | 3/4-20UNEF                |
| HWMS3100x14S-xxxx  | 30.18      | 23.01      | 17.33                    | 14.28               | 3.96/1.58      | 57.15     | 3.05                     | 27.5      | 9.0              | 7/8-20UNEF                |
| HWMS3100x14-xxxx   | 30.18      | 23.01      | 17.33                    | 19.05               | 3.96/1.58      | 66.68     | 3.05                     | 27.5      | 9.0              | 7/8-20UNEF                |
| HWMS3100x16S-xxxx  | 32.54      | 24.61      | 20.50                    | 14.28               | 3.96/1.58      | 57.15     | 3.05                     | 30.0      | 11.0             | 1-20UNEF                  |
| HWMS3100x16-xxxx   | 32.54      | 24.61      | 20.50                    | 19.05               | 3.96/1.58      | 66.68     | 3.05                     | 30.0      | 11.0             | 1-20UNEF                  |
| HWMS3100x18-xxxx   | 34.93      | 26.97      | 23.68                    | 19.05               | 5.12/2.39      | 68.28     | 3.05                     | 32.2      | 14.2             | 1 1/8-18UNEF              |
| HWMS3100x20-xxxx   | 38.10      | 29.36      | 26.88                    | 19.05               | 5.12/2.39      | 69.85     | 3.05                     | 37.5      | 15.8             | 1 1/4-18UNEF              |
| HWMS3100x22-xxxx   | 41.28      | 31.75      | 30.03                    | 19.05               | 5.12/2.39      | 69.85     | 3.05                     | 37.5      | 15.8             | 1 3/8-18UNEF              |
| HWMS3100x24-xxxx   | 44.45      | 34.93      | 33.20                    | 20.63               | 5.12/2.39      | 75.41     | 3.73                     | 43.3      | 21.4             | 1 1/2-18UNEF              |
| HWMS3100x28-xxxx   | 50.80      | 39.67      | 38.77                    | 20.63               | 5.12/2.39      | 76.99     | 3.73                     | 43.3      | 21.4             | 1 3/4-18UNEF              |
| HWMS3100x32-xxxx   | 57.15      | 44.45      | 45.12                    | 22.23               | 9.11/3.18      | 76.99     | 4.39                     | 51.7      | 26.7             | 2-18UNS                   |
| HWMS3100x36-xxxx   | 63.50      | 49.23      | 50.68                    | 22.23               | 9.11/3.18      | 83.34     | 4.39                     | 58.0      | 31.7             | 2 1/4-16UN                |

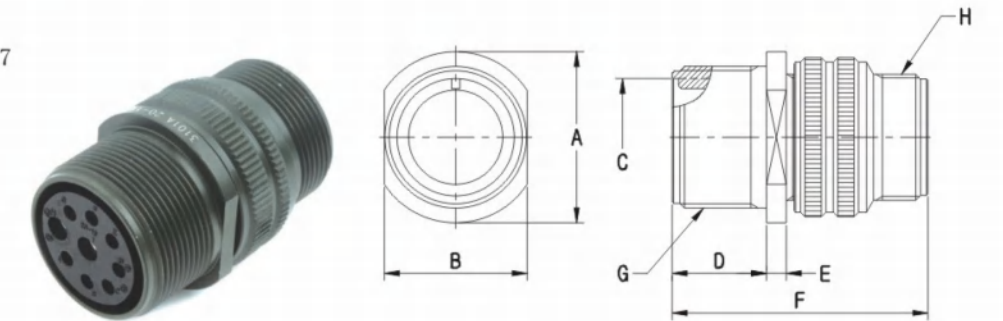
## Cable Connecting Plug (HWMS3101)

HWMS3101 CLASS "A"

可以适应尾部附件比如HWMS3057

排除绝缘垫圈和套管

Can be used with accessories such as HWMS3057 at the endbell.  
Excludes grommet and bushing.



UNIT: mm

| Part Number        | A Dia.<br>Max. | B<br>Max. | C Dia.<br>+0.38<br>-0.00 | D<br>+0.79<br>-0.00 | E<br>Max./Min. | F<br>Max. | G Thread.<br>(Class : 2A) | H Thread.<br>(Class : 2A) |
|--------------------|----------------|-----------|--------------------------|---------------------|----------------|-----------|---------------------------|---------------------------|
| HWMS3101A10SL-xxxx | 21.8           | 16.2      | 11.38                    | 14.28               | 3.96/1.58      | 38.88     | 5/8-24UNEF                | 5/8-24UNEF                |
| HWMS3101A12S-xxxx  | 25.0           | 19.3      | 14.15                    | 14.28               | 3.96/1.58      | 42.87     | 3/4-20UNEF                | 5/8-24UNEF                |
| HWMS3101A12-xxxx   | 25.0           | 19.3      | 14.15                    | 19.05               | 3.96/1.58      | 52.37     | 3/4-20UNEF                | 5/8-24UNEF                |
| HWMS3101A14S-xxxx  | 28.2           | 22.5      | 17.33                    | 14.28               | 3.96/1.58      | 42.87     | 7/8-20UNEF                | 3/4-20UNEF                |
| HWMS3101A14-xxxx   | 28.2           | 22.5      | 17.33                    | 19.05               | 3.96/1.58      | 52.37     | 7/8-20UNEF                | 3/4-20UNEF                |
| HWMS3101A16S-xxxx  | 31.4           | 25.6      | 20.50                    | 14.28               | 3.96/1.58      | 42.87     | 1-20UNEF                  | 7/8-20UNEF                |
| HWMS3101A16-xxxx   | 31.4           | 25.6      | 20.50                    | 19.05               | 3.96/1.58      | 52.37     | 1-20UNEF                  | 7/8-20UNEF                |
| HWMS3101A18-xxxx   | 34.5           | 28.8      | 23.68                    | 19.05               | 5.12/2.39      | 52.37     | 1 1/8-18UNEF              | 1-20UNEF                  |
| HWMS3101A20-xxxx   | 37.6           | 32.0      | 26.88                    | 19.05               | 5.12/2.39      | 55.57     | 1 1/4-18UNEF              | 1 3/16-18UNEF             |
| HWMS3101A22-xxxx   | 41.0           | 35.2      | 30.03                    | 19.05               | 5.12/2.39      | 55.57     | 1 3/8-18UNEF              | 1 3/16-18UNEF             |
| HWMS3101A24-xxxx   | 43.8           | 38.4      | 33.20                    | 20.63               | 5.12/2.39      | 58.72     | 1 1/2-18UNEF              | 1 7/16-18UNEF             |
| HWMS3101A28-xxxx   | 50.5           | 44.8      | 38.77                    | 20.63               | 5.12/2.39      | 58.72     | 1 3/4-18UNEF              | 1 7/16-18UNEF             |
| HWMS3101A32-xxxx   | 57.0           | 51.2      | 45.12                    | 22.23               | 9.11/3.18      | 61.92     | 2-18UNS                   | 1 3/4-18UNS               |
| HWMS3101A36-xxxx   | 63.2           | 57.5      | 50.68                    | 22.23               | 9.11/3.18      | 61.92     | 2 1/4-16UN                | 2-18UNS                   |



# MIL-C-5015 Style Class A/E/F/R

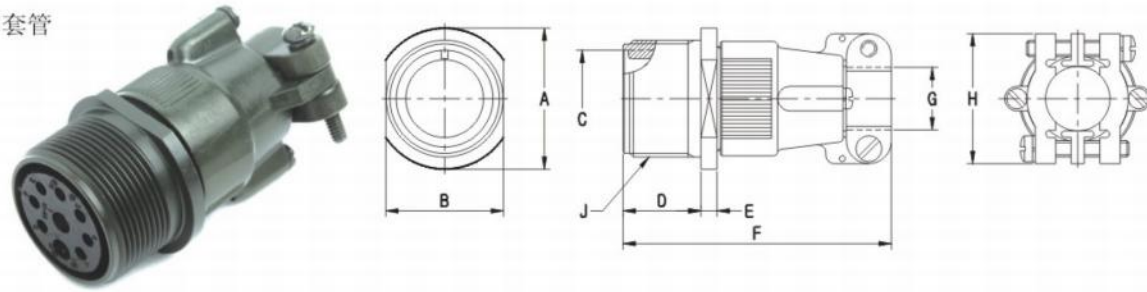
## Cable Connecting Plug (HWMS3101)

电缆连接插座

HWMS3101 CLASS "E", "F"

包含绝缘垫圈和套管

Includes grommet and bushing.



UNIT: mm

| Part Number        | A Dia. Max. | B Max. | C Dia. +0.38 -0.00 | D +0.79 -0.00 | E Max./Min. | F Max. | * G Dia. Max. | H Max. | J Thread. (Class : 2A) |
|--------------------|-------------|--------|--------------------|---------------|-------------|--------|---------------|--------|------------------------|
| HWMS3101x10SL-xxxx | 21.8        | 16.2   | 11.38              | 14.28         | 3.96/1.58   | 57.15  | 6.5           | 22.7   | 5/8-24UNEF             |
| HWMS3101x12S-xxxx  | 25.0        | 19.3   | 14.15              | 14.28         | 3.96/1.58   | 57.15  | 6.5           | 22.7   | 3/4-20UNEF             |
| HWMS3101x12-xxxx   | 25.0        | 19.3   | 14.15              | 19.05         | 3.96/1.58   | 66.68  | 6.5           | 22.7   | 3/4-20UNEF             |
| HWMS3101x14S-xxxx  | 28.2        | 22.5   | 17.33              | 14.28         | 3.96/1.58   | 57.15  | 9.0           | 27.5   | 7/8-20UNEF             |
| HWMS3101x14-xxxx   | 28.2        | 22.5   | 17.33              | 19.05         | 3.96/1.58   | 66.68  | 9.0           | 27.5   | 7/8-20UNEF             |
| HWMS3101x16S-xxxx  | 31.4        | 25.6   | 20.50              | 14.28         | 3.96/1.58   | 57.15  | 11.0          | 30.0   | 1-20UNEF               |
| HWMS3101x16-xxxx   | 31.4        | 25.6   | 20.50              | 19.05         | 3.96/1.58   | 66.68  | 11.0          | 30.0   | 1-20UNEF               |
| HWMS3101x18-xxxx   | 34.5        | 28.8   | 23.68              | 19.05         | 5.12/2.39   | 68.28  | 14.2          | 32.2   | 1 1/8-18UNEF           |
| HWMS3101x20-xxxx   | 37.6        | 32.0   | 26.88              | 19.05         | 5.12/2.39   | 69.85  | 15.8          | 37.5   | 1 1/4-18UNEF           |
| HWMS3101x22-xxxx   | 41.0        | 35.2   | 30.03              | 19.05         | 5.12/2.39   | 69.85  | 15.8          | 37.5   | 1 3/8-18UNEF           |
| HWMS3101x24-xxxx   | 43.8        | 38.4   | 33.20              | 20.63         | 5.12/2.39   | 75.41  | 21.4          | 43.3   | 1 1/2-18UNEF           |
| HWMS3101x28-xxxx   | 50.5        | 44.8   | 38.77              | 20.63         | 5.12/2.39   | 76.99  | 21.4          | 43.3   | 1 3/4-18UNS            |
| HWMS3101x32-xxxx   | 57.0        | 51.2   | 45.12              | 22.23         | 9.11/3.18   | 76.99  | 26.7          | 51.7   | 2-18UNS                |
| HWMS3101x36-xxxx   | 63.2        | 57.5   | 50.68              | 22.23         | 9.11/3.18   | 83.34  | 31.7          | 58.0   | 2 1/4-16UN             |

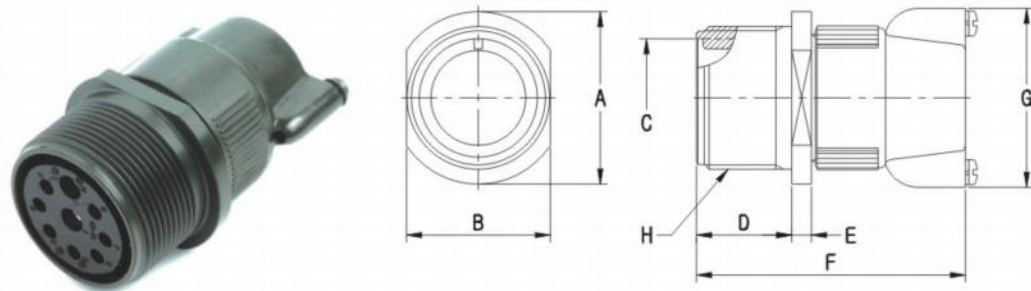
## Cable Connecting Plug (HWMS3101)

电缆连接插座

HWMS3101 CLASS "R"

包含绝缘垫圈和套管

Includes grommet and bushing.



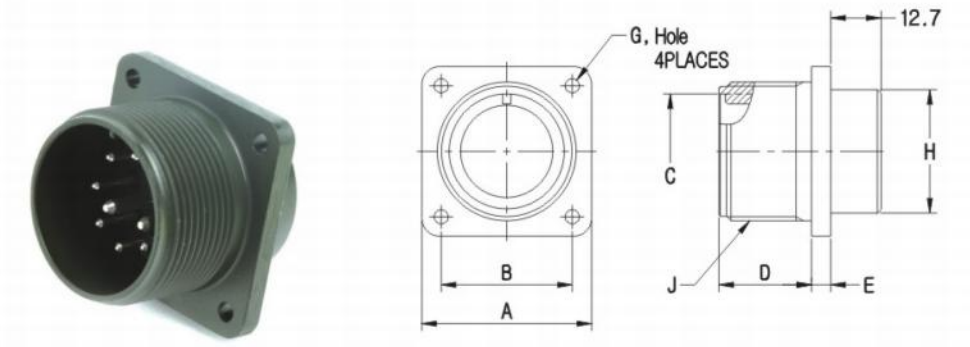
UNIT: mm

| Part Number        | A Dia. Max. | B Max. | C Dia. +0.38 -0.00 | D +0.79 -0.00 | E Max./Min. | F Max. | G Max. | H Thread. (Class : 2A) |
|--------------------|-------------|--------|--------------------|---------------|-------------|--------|--------|------------------------|
| HWMS3101R10SL-xxxx | 21.8        | 16.2   | 11.38              | 14.28         | 3.96/1.58   | 46.69  | 24.4   | 5/8-24UNEF             |
| HWMS3101R12S-xxxx  | 25.0        | 19.3   | 14.15              | 14.28         | 3.96/1.58   | 46.69  | 24.4   | 3/4-20UNEF             |
| HWMS3101R12-xxxx   | 25.0        | 19.3   | 14.15              | 19.05         | 3.96/1.58   | 55.40  | 24.4   | 3/4-20UNEF             |
| HWMS3101R14S-xxxx  | 28.2        | 22.5   | 17.33              | 14.28         | 3.96/1.58   | 46.69  | 29.0   | 7/8-20UNEF             |
| HWMS3101R14-xxxx   | 28.2        | 22.5   | 17.33              | 19.05         | 3.96/1.58   | 55.40  | 29.0   | 7/8-20UNEF             |
| HWMS3101R16S-xxxx  | 31.4        | 25.6   | 20.50              | 14.28         | 3.96/1.58   | 46.69  | 31.5   | 1-20UNEF               |
| HWMS3101R16-xxxx   | 31.4        | 25.6   | 20.50              | 19.05         | 3.96/1.58   | 55.40  | 31.5   | 1-20UNEF               |
| HWMS3101R18-xxxx   | 34.5        | 28.8   | 23.68              | 19.05         | 5.12/2.39   | 55.40  | 36.6   | 1 1/8-18UNEF           |
| HWMS3101R20-xxxx   | 37.6        | 32.0   | 26.88              | 19.05         | 5.12/2.39   | 55.40  | 39.7   | 1 1/4-18UNEF           |
| HWMS3101R22-xxxx   | 41.0        | 35.2   | 30.03              | 19.05         | 5.12/2.39   | 55.40  | 39.7   | 1 3/8-18UNEF           |
| HWMS3101R24-xxxx   | 43.8        | 38.4   | 33.20              | 20.63         | 5.12/2.39   | 55.40  | 47.4   | 1 1/2-18UNEF           |
| HWMS3101R28-xxxx   | 50.5        | 44.8   | 38.77              | 20.63         | 5.12/2.39   | 55.40  | 47.4   | 1 3/4-18UNS            |
| HWMS3101R32-xxxx   | 57.0        | 51.2   | 45.12              | 22.23         | 9.11/3.18   | 58.98  | 55.9   | 2-18UNS                |
| HWMS3101R36-xxxx   | 63.2        | 57.5   | 50.68              | 22.23         | 9.11/3.18   | 58.98  | 60.8   | 2 1/4-16UN             |

# MIL-C-5015 Style Class A/E/F/R

## Box Mounting Receptacle (HWMS3102)

HWMS3102 CLASS "E", "R"



UNIT: mm

| Part Number        | A ±0.79 | B ±0.12 | C Dia. +0.38 -0.00 | D +0.79 -0.00 | E Max./Min. | G Dia. +0.25 -0.13 | H Dia. Max. | J Thread. (Class : 2A) |
|--------------------|---------|---------|--------------------|---------------|-------------|--------------------|-------------|------------------------|
| HWMS3102x10SL-xxxx | 25.40   | 18.26   | 11.38              | 14.28         | 3.96/1.58   | 3.05               | 15.9        | 5/8-24UNEF             |
| HWMS3102x12S-xxxx  | 27.79   | 20.62   | 14.15              | 14.28         | 3.96/1.58   | 3.05               | 15.9        | 3/4-20UNEF             |
| HWMS3102x12-xxxx   | 27.79   | 20.62   | 14.15              | 19.05         | 3.96/1.58   | 3.05               | 15.9        | 3/4-20UNEF             |
| HWMS3102x14S-xxxx  | 30.18   | 23.01   | 17.33              | 14.28         | 3.96/1.58   | 3.05               | 19.0        | 7/8-20UNEF             |
| HWMS3102x14-xxxx   | 30.18   | 23.01   | 17.33              | 19.05         | 3.96/1.58   | 3.05               | 19.0        | 7/8-20UNEF             |
| HWMS3102x16S-xxxx  | 32.54   | 24.61   | 20.50              | 14.28         | 3.96/1.58   | 3.05               | 22.2        | 1-20UNEF               |
| HWMS3102x16-xxxx   | 32.54   | 24.61   | 20.50              | 19.05         | 3.96/1.58   | 3.05               | 22.2        | 1-20UNEF               |
| HWMS3102x18-xxxx   | 34.93   | 26.97   | 23.68              | 19.05         | 5.12/2.39   | 3.05               | 25.4        | 1 1/8-18UNEF           |
| HWMS3102x20-xxxx   | 38.10   | 29.36   | 26.88              | 19.05         | 5.12/2.39   | 3.05               | 29.0        | 1 1/4-18UNEF           |
| HWMS3102x22-xxxx   | 41.28   | 31.75   | 30.03              | 19.05         | 5.12/2.39   | 3.05               | 32.2        | 1 3/8-18UNEF           |
| HWMS3102x24-xxxx   | 44.45   | 34.93   | 33.20              | 20.63         | 5.12/2.39   | 3.73               | 35.3        | 1 1/2-18UNEF           |
| HWMS3102x28-xxxx   | 50.80   | 39.67   | 38.77              | 20.63         | 5.12/2.39   | 3.73               | 41.2        | 1 3/4-18UNS            |
| HWMS3102x32-xxxx   | 57.15   | 44.45   | 45.12              | 22.23         | 9.11/3.18   | 4.39               | 47.6        | 2-18UNS                |
| HWMS3102x36-xxxx   | 63.50   | 49.23   | 50.68              | 22.23         | 9.11/3.18   | 4.39               | 52.4        | 2 1/4-16UN             |

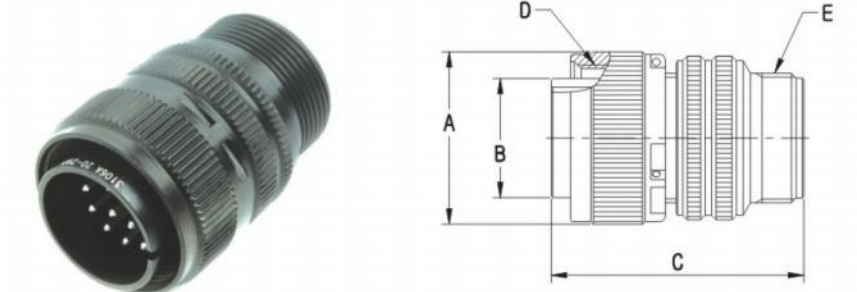
## Straight Plug (HWMS3106)

HWMS3106 CLASS "A"

可以适应尾部附件比如HWMS3057

排除绝缘垫圈和套管

Can be used with accessories such as HWMS3057 at the endbell. Excludes O-Ring, grommet and bushing.



UNIT: mm

| Part Number        | A Dia. Max. | B Dia. +0.00 -0.38 | C Max. | D Thread. (Class : 2B) | E Thread. (Class : 2A) |
|--------------------|-------------|--------------------|--------|------------------------|------------------------|
| HWMS3106A10SL-xxxx | 24.61       | 11.33              | 38.88  | 5/8-24UNEF             | 5/8-24UNEF             |
| HWMS3106A12S-xxxx  | 26.97       | 14.10              | 42.87  | 3/4-20UNEF             | 5/8-24UNEF             |
| HWMS3106A12-xxxx   | 26.97       | 14.10              | 52.37  | 3/4-20UNEF             | 5/8-24UNEF             |
| HWMS3106A14S-xxxx  | 29.36       | 17.15              | 42.87  | 7/8-20UNEF             | 3/4-20UNEF             |
| HWMS3106A14-xxxx   | 29.36       | 17.15              | 52.37  | 7/8-20UNEF             | 3/4-20UNEF             |
| HWMS3106A16S-xxxx  | 31.75       | 20.45              | 42.87  | 1-20UNEF               | 7/8-20UNEF             |
| HWMS3106A16-xxxx   | 31.75       | 20.45              | 52.37  | 1-20UNEF               | 7/8-20UNEF             |
| HWMS3106A18-xxxx   | 34.13       | 23.62              | 52.37  | 1 1/8-18UNEF           | 1-20UNEF               |
| HWMS3106A20-xxxx   | 37.31       | 26.67              | 55.57  | 1 1/4-18UNEF           | 1 3/16-18UNEF          |
| HWMS3106A22-xxxx   | 40.48       | 29.85              | 55.57  | 1 3/8-18UNEF           | 1 3/16-18UNEF          |
| HWMS3106A24-xxxx   | 43.66       | 33.02              | 58.72  | 1 1/2-18UNEF           | 1 7/16-18UNEF          |
| HWMS3106A28-xxxx   | 50.01       | 38.61              | 58.72  | 1 3/4-18UNS            | 1 7/16-18UNEF          |
| HWMS3106A32-xxxx   | 56.36       | 44.96              | 61.92  | 2-18UNS                | 1 3/4-18UNS            |
| HWMS3106A36-xxxx   | 62.71       | 50.29              | 61.92  | 2 1/4-16UN             | 2-18UNS                |



# MIL-C-5015 Style Class A/E/F/R

## Straight Plug (HWMS3106)

直插头

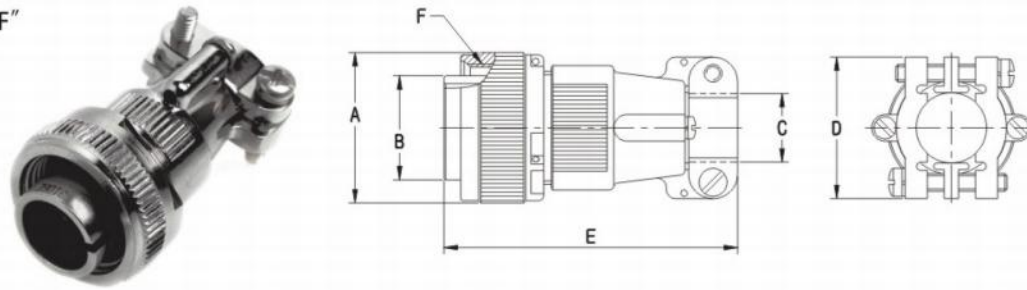
HWMS3106 CLASS "E", "F"

E - 不包含O型圈

F - 包含O型圈

尾部带绝缘垫圈和套管

E - Excludes O-Ring  
F - Includes O-Ring  
Includes grommet and bushing.



UNIT: mm

| Part Number        | A Dia. Max. | B Dia. +0.00 -0.38 | * C Dia. Max. | D Max. | E Max. | F Thread. (Class : 2B) |
|--------------------|-------------|--------------------|---------------|--------|--------|------------------------|
| HWMS3106x10SL-xxxx | 24.61       | 11.33              | 6.5           | 22.7   | 57.15  | 5/8-24UNEF             |
| HWMS3106x12S-xxxx  | 26.97       | 14.10              | 6.5           | 22.7   | 57.15  | 3/4-20UNEF             |
| HWMS3106x12-xxxx   | 26.97       | 14.10              | 6.5           | 22.7   | 66.68  | 3/4-20UNEF             |
| HWMS3106x14S-xxxx  | 29.36       | 17.15              | 9.0           | 27.5   | 57.15  | 7/8-20UNEF             |
| HWMS3106x14-xxxx   | 29.36       | 17.15              | 9.0           | 27.5   | 66.68  | 7/8-20UNEF             |
| HWMS3106x16S-xxxx  | 31.75       | 20.45              | 11.0          | 30.0   | 57.15  | 1-20UNEF               |
| HWMS3106x16-xxxx   | 31.75       | 20.45              | 11.0          | 30.0   | 66.68  | 1-20UNEF               |
| HWMS3106x18-xxxx   | 34.13       | 23.62              | 14.2          | 32.2   | 68.28  | 1 1/8-18UNEF           |
| HWMS3106x20-xxxx   | 37.31       | 26.67              | 15.8          | 37.5   | 69.85  | 1 1/4-18UNEF           |
| HWMS3106x22-xxxx   | 40.48       | 29.85              | 15.8          | 37.5   | 69.85  | 1 3/8-18UNEF           |
| HWMS3106x24-xxxx   | 43.66       | 33.02              | 21.4          | 43.3   | 75.41  | 1 1/2-18UNEF           |
| HWMS3106x28-xxxx   | 50.01       | 38.61              | 21.4          | 43.3   | 76.99  | 1 3/4-18UNS            |
| HWMS3106x32-xxxx   | 56.36       | 44.96              | 26.7          | 51.7   | 76.99  | 2-18UNS                |
| HWMS3106x36-xxxx   | 62.71       | 50.29              | 31.7          | 58.0   | 83.34  | 2 1/4-16UN             |

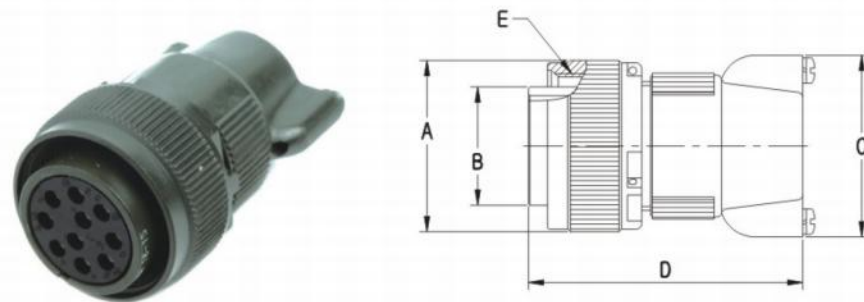
## Straight Plug (HWMS3106)

直插头

HWMS3106 CLASS "R"

带O型圈、绝缘垫圈和套管

Includes O-Ring, grommet and bushing.



UNIT: mm

| Part Number        | A Dia. Max. | B Dia. +0.00 -0.38 | C Max. | D Max. | E Thread. (Class : 2B) |
|--------------------|-------------|--------------------|--------|--------|------------------------|
| HWMS3106R10SL-xxxx | 24.61       | 11.33              | 24.4   | 46.69  | 5/8-24UNEF             |
| HWMS3106R12S-xxxx  | 26.97       | 14.10              | 24.4   | 46.69  | 3/4-20UNEF             |
| HWMS3106R12-xxxx   | 26.97       | 14.10              | 24.4   | 55.40  | 3/4-20UNEF             |
| HWMS3106R14S-xxxx  | 29.36       | 17.15              | 29.0   | 46.69  | 7/8-20UNEF             |
| HWMS3106R14-xxxx   | 29.36       | 17.15              | 29.0   | 55.40  | 7/8-20UNEF             |
| HWMS3106R16S-xxxx  | 31.75       | 20.45              | 31.5   | 46.69  | 1-20UNEF               |
| HWMS3106R16-xxxx   | 31.75       | 20.45              | 31.5   | 55.40  | 1-20UNEF               |
| HWMS3106R18-xxxx   | 34.13       | 23.62              | 36.6   | 55.40  | 1 1/8-18UNEF           |
| HWMS3106R20-xxxx   | 37.31       | 26.67              | 39.7   | 55.40  | 1 1/4-18UNEF           |
| HWMS3106R22-xxxx   | 40.48       | 29.85              | 39.7   | 55.40  | 1 3/8-18UNEF           |
| HWMS3106R24-xxxx   | 43.66       | 33.02              | 47.4   | 55.40  | 1 1/2-18UNEF           |
| HWMS3106R28-xxxx   | 50.01       | 38.61              | 47.4   | 55.40  | 1 3/4-18UNS            |
| HWMS3106R32-xxxx   | 56.36       | 44.96              | 55.9   | 58.98  | 2-18UNS                |
| HWMS3106R36-xxxx   | 62.71       | 50.29              | 60.8   | 58.98  | 2 1/4-16UN             |

# MIL-C-5015 Style Class A/E/F/R

## 90° Angle plug (HWMS3108)

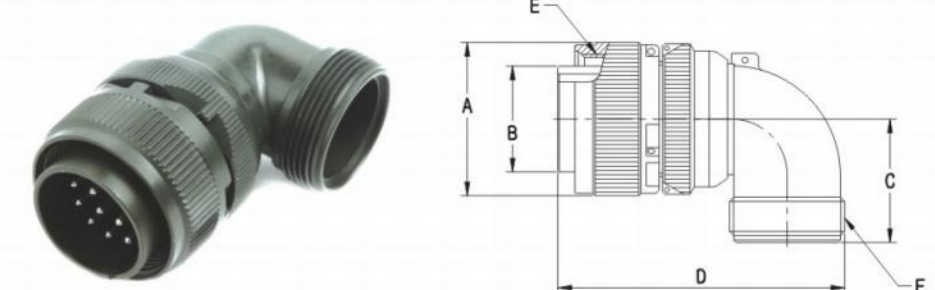
90° 弯插头

HWMS3108 CLASS "A"

可以适应尾部附件比如HWMS3057

包含O型绝缘垫圈和套管

Can be used with accessories such as HWMS3057 at the endbell.  
Excludes O-Ring, grommet and bushing.



UNIT: mm

| Part Number        | A Dia. Max. | B Dia. +0.00 -0.38 | C Max. | D Max. | E Thread. (Class : 2B) | F Thread. (Class : 2A) |
|--------------------|-------------|--------------------|--------|--------|------------------------|------------------------|
| HWMS3108A10SL-xxxx | 24.61       | 11.33              | 25.40  | 55.58  | 5/8-24UNEF             | 5/8-24UNEF             |
| HWMS3108A12S-xxxx  | 26.97       | 14.10              | 26.97  | 55.58  | 3/4-20UNEF             | 5/8-24UNEF             |
| HWMS3108A12-xxxx   | 26.97       | 14.10              | 26.97  | 64.29  | 3/4-20UNEF             | 5/8-24UNEF             |
| HWMS3108A14S-xxxx  | 29.36       | 17.15              | 28.57  | 58.72  | 7/8-20UNEF             | 3/4-20UNEF             |
| HWMS3108A14-xxxx   | 29.36       | 17.15              | 28.57  | 68.26  | 7/8-20UNEF             | 3/4-20UNEF             |
| HWMS3108A16S-xxxx  | 31.75       | 20.45              | 30.17  | 61.11  | 1-20UNEF               | 7/8-20UNEF             |
| HWMS3108A16-xxxx   | 31.75       | 20.45              | 30.17  | 70.64  | 1-20UNEF               | 7/8-20UNEF             |
| HWMS3108A18-xxxx   | 34.13       | 23.62              | 33.32  | 72.24  | 1 1/8-18UNEF           | 1-20UNEF               |
| HWMS3108A20-xxxx   | 37.31       | 26.67              | 34.92  | 82.55  | 1 1/4-18UNEF           | 1 3/16-18UNEF          |
| HWMS3108A22-xxxx   | 40.48       | 29.85              | 34.92  | 82.55  | 1 3/8-18UNEF           | 1 3/16-18UNEF          |
| HWMS3108A24-xxxx   | 43.66       | 33.02              | 39.67  | 94.46  | 1 1/2-18UNEF           | 1 7/16-18UNEF          |
| HWMS3108A28-xxxx   | 50.01       | 38.61              | 39.67  | 94.46  | 1 3/4-18UNS            | 1 7/16-18UNEF          |
| HWMS3108A32-xxxx   | 56.36       | 44.96              | 47.62  | 106.38 | 2-18UNS                | 1 3/4-18UNS            |
| HWMS3108A36-xxxx   | 62.71       | 50.29              | 52.37  | 109.14 | 2 1/4-16UN             | 2-18UNS                |

## 90° Angle Plug (HWMS3108)

90° 弯插头

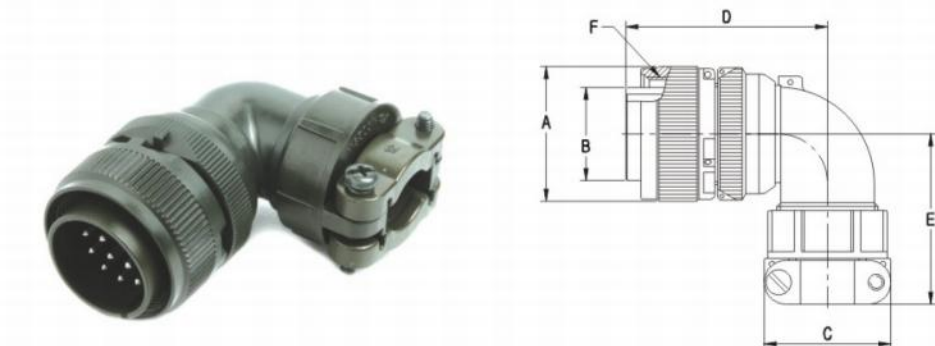
HWMS3108 CLASS "E", "R"

E - 不包含O型圈

R - 包含O型圈

包含绝缘垫圈和套管

E - Excludes O-Ring  
F - Includes O-Ring  
Includes grommet and bushing.



UNIT: mm

| Part Number        | A Dia. Max. | B Dia. +0.00 -0.38 | C Max. | D Max. | E Max. | F Thread. (Class : 2B) |
|--------------------|-------------|--------------------|--------|--------|--------|------------------------|
| HWMS3108x10SL-xxxx | 24.61       | 11.33              | 22.7   | 45.0   | 38.10  | 5/8-24UNEF             |
| HWMS3108x12S-xxxx  | 26.97       | 14.10              | 22.7   | 45.0   | 38.10  | 3/4-20UNEF             |
| HWMS3108x12-xxxx   | 26.97       | 14.10              | 22.7   | 54.0   | 38.10  | 3/4-20UNEF             |
| HWMS3108x14S-xxxx  | 29.36       | 17.15              | 27.5   | 47.0   | 40.49  | 7/8-20UNEF             |
| HWMS3108x14-xxxx   | 29.36       | 17.15              | 27.5   | 55.0   | 40.49  | 7/8-20UNEF             |
| HWMS3108x16S-xxxx  | 31.75       | 20.45              | 30.0   | 48.0   | 42.88  | 1-20UNEF               |
| HWMS3108x16-xxxx   | 31.75       | 20.45              | 30.0   | 57.0   | 42.88  | 1-20UNEF               |
| HWMS3108x18-xxxx   | 34.13       | 23.62              | 32.2   | 58.0   | 45.24  | 1 1/8-18UNEF           |
| HWMS3108x20-xxxx   | 37.31       | 26.67              | 37.5   | 61.0   | 50.01  | 1 1/4-18UNEF           |
| HWMS3108x22-xxxx   | 40.48       | 29.85              | 37.5   | 61.0   | 50.80  | 1 3/8-18UNEF           |
| HWMS3108x24-xxxx   | 43.66       | 33.02              | 43.3   | 66.0   | 53.97  | 1 1/2-18UNEF           |
| HWMS3108x28-xxxx   | 50.01       | 38.61              | 43.3   | 66.0   | 55.58  | 1 3/4-18UNS            |
| HWMS3108x32-xxxx   | 56.36       | 44.96              | 51.7   | 72.0   | 65.89  | 2-18UNS                |
| HWMS3108x36-xxxx   | 62.71       | 50.29              | 58.0   | 75.0   | 69.06  | 2 1/4-16UN             |



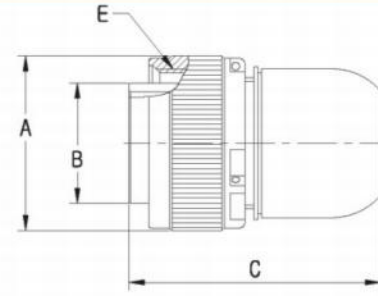
## MIL- C-5015 Style

### Straight Plug (HWMS25183)

直插头

HWMS25183  
直插头带O型圈

Pot Type.  
Includes O-Ring.



UNIT: mm

| Part Number         | A Dia. Max. | B Dia. +0.00 -0.38 | C Max. | E Thread. (Class : 2B) |
|---------------------|-------------|--------------------|--------|------------------------|
| HWMS25183-10SL-xxxx | 24.61       | 11.33              | 38.10  | 5/8-24UNEF             |
| HWMS25183-12S-xxxx  | 26.97       | 14.10              | 38.10  | 3/4-20UNEF             |
| HWMS25183-12-xxxx   | 26.97       | 14.10              | 48.41  | 3/4-20UNEF             |
| HWMS25183-14S-xxxx  | 29.36       | 17.15              | 38.10  | 7/8-20UNEF             |
| HWMS25183-14-xxxx   | 29.36       | 17.15              | 48.41  | 7/8-20UNEF             |
| HWMS25183-16S-xxxx  | 31.75       | 20.45              | 38.10  | 1-20UNEF               |
| HWMS25183-16-xxxx   | 31.75       | 20.45              | 48.41  | 1-20UNEF               |
| HWMS25183-18-xxxx   | 34.13       | 23.62              | 48.41  | 1 1/8-18UNEF           |
| HWMS25183-20-xxxx   | 37.31       | 26.67              | 55.52  | 1 1/4-18UNEF           |
| HWMS25183-22-xxxx   | 40.48       | 29.85              | 55.52  | 1 3/8-18UNEF           |
| HWMS25183-24-xxxx   | 43.66       | 33.02              | 55.52  | 1 1/2-18UNEF           |
| HWMS25183-28-xxxx   | 50.01       | 38.61              | 55.52  | 1 3/4-18UNS            |
| HWMS25183-32-xxxx   | 56.36       | 44.96              | 55.52  | 2-18UNS                |
| HWMS25183-36-xxxx   | 62.71       | 50.29              | 55.52  | 2 1/4-16UN             |

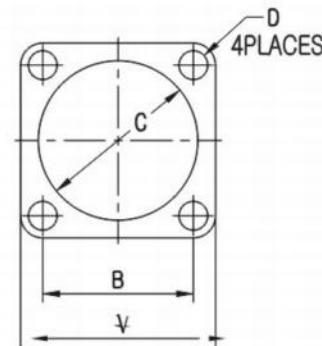
## MIL- C-5015 Style Accessories

### Sealing Gasket (HWMS52000)

橡胶垫片

#### HWMS 52000 - 1

Size 尺寸  
Part Number 产品型号



UNIT: mm

| Part Number  | Shell Size | A +0.40 -0.00 | B ±0.25 | C Dia. +0.4 -0.0 | D Dia. ±0.25 |
|--------------|------------|---------------|---------|------------------|--------------|
| HWMS52000-1  | 10SL       | 25.40         | 18.26   | 15.88            | 4.37         |
| HWMS52000-2  | 12         | 27.79         | 20.62   | 19.05            | 4.37         |
| HWMS52000-3  | 14         | 30.18         | 23.01   | 22.23            | 4.37         |
| HWMS52000-4  | 16         | 32.54         | 24.61   | 25.40            | 4.37         |
| HWMS52000-5  | 18         | 34.93         | 26.97   | 28.58            | 5.16         |
| HWMS52000-6  | 20         | 38.10         | 29.36   | 31.75            | 5.16         |
| HWMS52000-7  | 22         | 41.28         | 31.75   | 34.93            | 5.16         |
| HWMS52000-8  | 24         | 44.45         | 34.93   | 38.10            | 5.16         |
| HWMS52000-9  | 28         | 50.80         | 39.67   | 44.45            | 5.16         |
| HWMS52000-10 | 32         | 57.15         | 44.45   | 50.80            | 5.56         |
| HWMS52000-11 | 36         | 63.50         | 49.23   | 57.05            | 5.56         |

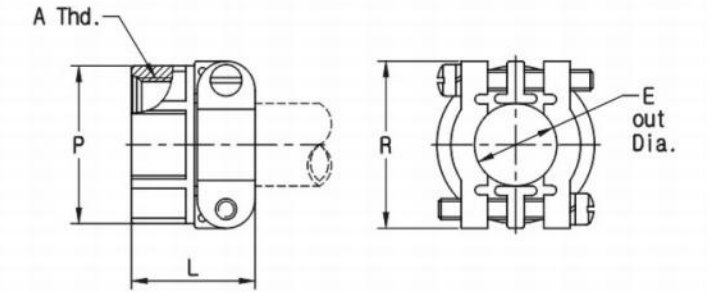
## MIL- C-5015 Style Accessories

### HWMS3057 (MS3057) Cable Clamp

尾夹

#### HWMS 3057 - 4A

Size 尺寸  
Part Number 产品型号



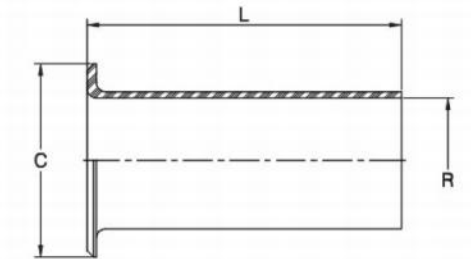
| Part Number  | Shell Size  | E     |       | L ±0.79 | P ±0.79 | R ±0.79 | A Thread (Class : 2B) |
|--------------|-------------|-------|-------|---------|---------|---------|-----------------------|
|              |             | Min.  | Max.  |         |         |         |                       |
| HWMS3057-4A  | 10SL,12S,12 | 3.56  | 7.92  | 20.62   | 20.62   | 22.22   | 5/8-24UNEF            |
| HWMS3057-6A  | 14S,14      | 4.95  | 11.13 | 22.22   | 24.61   | 26.97   | 3/4-20UNEF            |
| HWMS3057-8A  | 16S,16      | 6.48  | 14.27 | 23.83   | 27.79   | 29.36   | 7/8-20UNEF            |
| HWMS3057-10A | 18          | 7.24  | 15.88 | 23.83   | 30.18   | 31.75   | 1-20UNEF              |
| HWMS3057-12A | 20,22       | 8.89  | 19.05 | 23.83   | 34.92   | 37.31   | 1 3/16-18UNEF         |
| HWMS3057-16A | 24,28       | 11.89 | 23.83 | 26.19   | 42.08   | 42.88   | 1 7/16-18UNEF         |
| HWMS3057-20A | 32          | 16.87 | 31.75 | 27.79   | 51.59   | 51.59   | 1 3/4-18UNS           |
| HWMS3057-24A | 36          | 17.83 | 34.92 | 29.36   | 56.36   | 57.94   | 2-18UNS               |

### HWMS3420 (MS3420) Rubber Bushing

橡胶套管

#### HWMS 3420 - 4

Size 尺寸  
Part Number 产品型号



| Part Number | Shell Size  | C ±0.41 | L ±0.79 | R ±0.41 |
|-------------|-------------|---------|---------|---------|
| HWMS3420-4  | 10SL,12,12S | 12.83   | 69.85   | 5.59    |
| HWMS3420-6  | 14,14S      | 15.72   | 66.68   | 7.92    |
| HWMS3420-8  | 16,16S      | 18.90   | 63.50   | 11.10   |
| HWMS3420-10 | 18          | 22.58   | 60.32   | 14.27   |
| HWMS3420-12 | 20,22       | 27.53   | 57.15   | 15.88   |
| HWMS3420-16 | 24,28       | 33.38   | 53.98   | 19.05   |
| HWMS3420-20 | 32          | 40.54   | 50.80   | 23.80   |
| HWMS3420-24 | 36          | 46.91   | 47.62   | 31.75   |



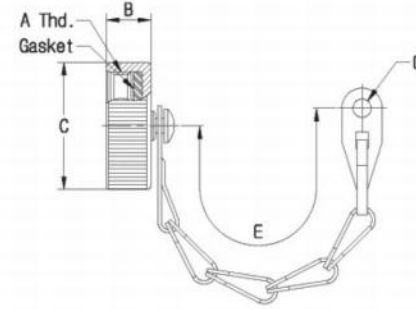
# MIL-C-5015 Style Accessories

## HWMS25043 (MS25043) Protective Cap (Receptacle)

插座防尘盖

### HWMS 25043 - 18D

Shell Size  
Part Number



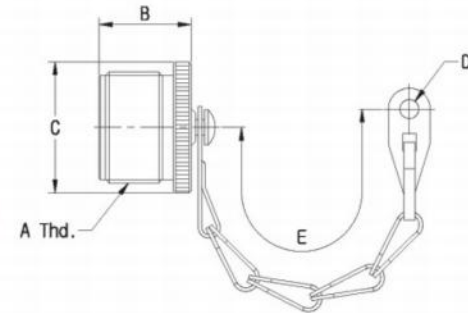
| Part Number   | Shell Size | B Max. | C Dia Max. | E ±One Link | D Dia +0.25 -0.13 | A Thread (Class : 2B) |
|---------------|------------|--------|------------|-------------|-------------------|-----------------------|
| HWMS25043-10D | 10S,10SL   | 11.91  | 20.70      | 101.6       | 3.56              | 5/8-24UNEF            |
| HWMS25043-12D | 12S,12SL   | 11.91  | 25.40      | 114.3       | 3.56              | 3/4-20UNEF            |
| HWMS25043-14D | 14,14S     | 11.91  | 25.58      | 114.3       | 3.56              | 7/8-20UNEF            |
| HWMS25043-16D | 16,16S     | 11.91  | 30.18      | 114.3       | 3.56              | 1-20UNEF              |
| HWMS25043-18D | 18         | 11.91  | 34.14      | 114.3       | 3.56              | 1 1/8-18UNEF          |
| HWMS25043-20D | 20         | 11.91  | 37.31      | 127.0       | 3.56              | 1 1/4-18UNEF          |
| HWMS25043-22D | 22         | 11.91  | 40.49      | 127.0       | 3.56              | 1 3/8-18UNEF          |
| HWMS25043-24D | 24         | 11.91  | 43.66      | 139.7       | 4.34              | 1 1/2-18UNEF          |
| HWMS25043-28D | 28         | 13.49  | 50.01      | 196.9       | 4.34              | 1 3/4-18UNS           |
| HWMS25043-32D | 32         | 13.49  | 56.36      | 196.9       | 4.75              | 2-18UNS               |
| HWMS25043-36D | 36         | 13.49  | 62.71      | 196.9       | 4.75              | 2 1/4-18UN            |

## HWMS25042 (MS25042) Protective Cap (Plug )

插头防尘盖

### HWMS 25042 - 20D

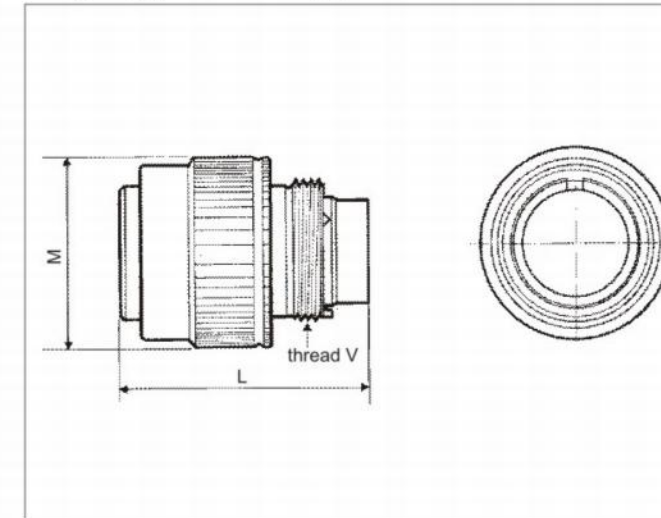
Shell Size  
Part Number



| Part Number   | Shell Size | B Max. | C Dia Max. | E ±One Link | D Dia +0.25 -0.13 | A Thread (Class : 2A) |
|---------------|------------|--------|------------|-------------|-------------------|-----------------------|
| HWMS25042-10D | 10S,10SL   | 16.66  | 17.45      | 114.30      | 3.96              | 5/8-24UNEF            |
| HWMS25042-12D | 12S,12SL   | 21.44  | 20.62      | 127.00      | 3.96              | 3/4-20UNEF            |
| HWMS25042-14D | 14,14S     | 21.44  | 23.80      | 127.00      | 3.96              | 7/8-20UNEF            |
| HWMS25042-16D | 16S,16SL   | 21.44  | 26.97      | 127.00      | 3.96              | 1-20UNEF              |
| HWMS25042-18D | 18         | 21.44  | 30.15      | 127.00      | 3.96              | 1 1/8-18UNEF          |
| HWMS25042-20D | 20         | 21.44  | 33.32      | 139.70      | 4.75              | 1 1/4-18UNEF          |
| HWMS25042-22D | 22         | 21.44  | 36.50      | 139.70      | 4.75              | 1 3/8-18UNEF          |
| HWMS25042-24D | 24         | 21.44  | 39.67      | 152.40      | 4.75              | 1 1/2-18UNEF          |
| HWMS25042-28D | 28         | 21.44  | 46.02      | 209.55      | 4.75              | 1 3/4-18UNS           |
| HWMS25042-32D | 32         | 21.44  | 52.37      | 209.55      | 5.54              | 2-18UNS               |
| HWMS25042-36D | 36         | 21.44  | 58.72      | 209.55      | 5.54              | 2 1/4-18UN            |

# 5015-2 Series

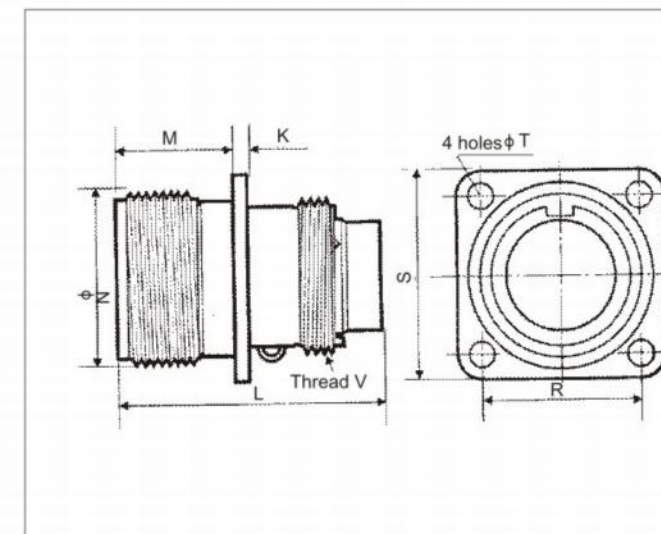
## Dimensions Plugs-type 06 and type 26



| shell size | L             | M             | V   |
|------------|---------------|---------------|---|
| 10SL       | 39 65<br>1 56 | 23 50<br>0 93 | <sup>5</sup> / <sub>8</sub> "-24<br>UNEF 2A |
| 12S        | 39 65<br>1 56 | 25 50<br>1 00 |   |
| 14S        | 39 65<br>1 56 | 28 00<br>1 10 | <sup>3</sup> / <sub>4</sub> "-20<br>UNEF 2A |
| 16S        | 39 65<br>1 56 | 31 90<br>1 26 | <sup>7</sup> / <sub>8</sub> "-20<br>UNEF 2A |
| 16         | 44 15<br>1 74 | 31 90<br>1 26 | <sup>7</sup> / <sub>8</sub> "-20<br>UNEF 2A |
| 18         | 44 15<br>1 74 | 34 00<br>1 34 | 1"-20<br>UNEF 2A                            |
| 20         | 44 15<br>1 74 | 37 50<br>1 48 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |
| 22         | 44 15<br>1 74 | 40 60<br>1 60 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |
| 24         | 44 15<br>1 74 | 43 80<br>1 72 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |
| 28         | 44 15<br>1 74 | 50 00<br>1 97 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |

<sup>5</sup>/<sub>8</sub>"-24 UNEF 2A for all types except Rolls-Royce ESC 004 connectors which have an <sup>1</sup>/<sub>2</sub>"-24 UNEF 2A thread

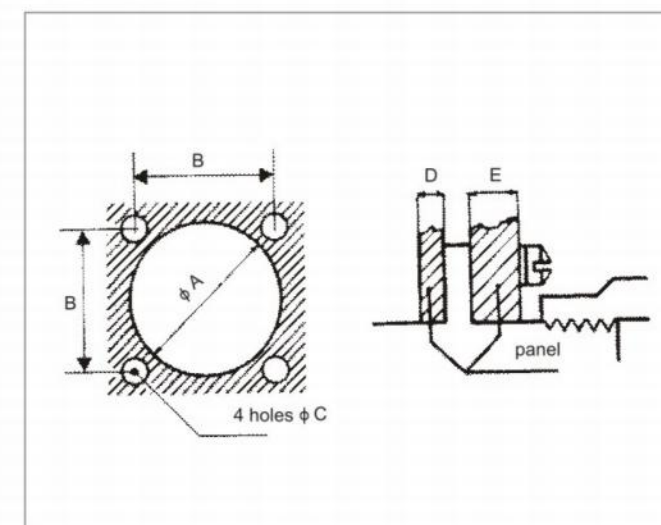
## Square flange receptacles-type 00



| shell size | K          | L             | M           | N             | R             | S             | T          | V   |
|------------|------------|---------------|-------------|---------------|---------------|---------------|------------|---|
| 10SL       | 1 60<br>06 | 39 65<br>1 56 | 14 90<br>59 | 15 84<br>62   | 18 25<br>72   | 25 25<br>99   | 3 80<br>15 | <sup>5</sup> / <sub>8</sub> "-24<br>UNEF 2A |
| 12S        | 1 60<br>06 | 39 65<br>1 56 | 14 90<br>59 | 19 02<br>75   | 20 60<br>81   | 27 60<br>1 09 | 3 80<br>15 |   |
| 14S        | 1 60<br>06 | 39 65<br>1 56 | 14 90<br>59 | 22 19<br>87   | 23 00<br>91   | 30 00<br>1 18 | 3 80<br>15 | <sup>3</sup> / <sub>4</sub> "-20<br>UNEF 2A |
| 16S        | 1 60<br>06 | 39 65<br>1 56 | 14 90<br>59 | 25 40<br>1 00 | 24 60<br>97   | 32 62<br>1 28 | 3 80<br>15 | <sup>7</sup> / <sub>8</sub> "-20<br>UNEF 2A |
| 16         | 1 60<br>06 | 44 15<br>1 74 | 19 65<br>77 | 25 40<br>1 00 | 24 60<br>97   | 32 62<br>1 28 | 3 80<br>15 | <sup>7</sup> / <sub>8</sub> "-20<br>UNEF 2A |
| 18         | 1 60<br>06 | 44 15<br>1 74 | 19 65<br>77 | 28 50<br>1 12 | 26 97<br>1 06 | 35 00<br>1 38 | 4 60<br>18 | 1"-20<br>UNEF 2A                            |
| 20         | 2 00<br>08 | 44 15<br>1 74 | 19 65<br>77 | 31 70<br>1 25 | 29 40<br>1 16 | 37 40<br>1 47 | 4 60<br>18 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |
| 22         | 2 00<br>08 | 44 15<br>1 74 | 19 65<br>77 | 34 88<br>1 37 | 31 75<br>1 25 | 40 80<br>1 61 | 4 60<br>18 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |
| 24         | 2 00<br>08 | 44 15<br>1 74 | 20 65<br>81 | 38 05<br>1 50 | 34 90<br>1 37 | 43 90<br>1 73 | 4 60<br>18 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |
| 28         | 2 00<br>08 | 44 15<br>1 74 | 20 65<br>81 | 44 40<br>1 75 | 39 65<br>1 56 | 50 65<br>1 99 | 4 60<br>18 | <sup>1</sup> / <sub>2</sub> "-18<br>UNEF 2A |

<sup>5</sup>/<sub>8</sub>"-24 NEF 2A for all types except Rolls-Royce ESC 004 connectors which have an <sup>1</sup>/<sub>2</sub>"-24 NEF 2A thread

## Panel cutout

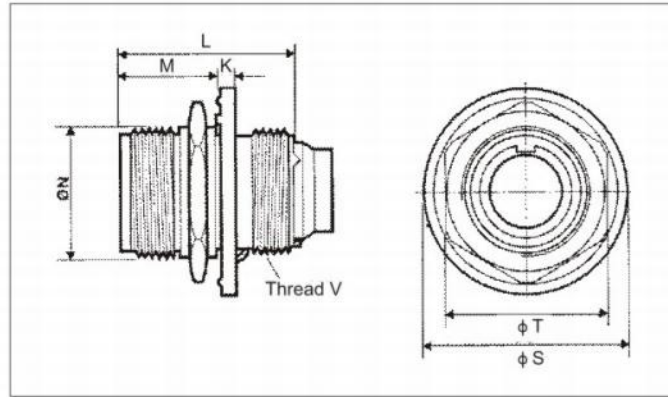


| shell size | front of panel |               |            |             | rear of panel |               |            |            |
|------------|----------------|---------------|------------|-------------|---------------|---------------|------------|------------|
|            | A              | B             | C          | D Max       | A             | B             | C          | E Max      |
| 10SL       | 20 50<br>81    | 18 25<br>72   | 3 80<br>15 | 10 00<br>39 | 17 00<br>67   | 18 25<br>72   | 3 80<br>15 | 6 0<br>24  |
| 12S        | 20 50<br>81    | 20 60<br>81   | 3 80<br>15 | 10 00<br>39 | 20 20<br>79   | 20 60<br>81   | 3 80<br>15 | 6 0<br>24  |
| 14S        | 23 50<br>93    | 23 00<br>91   | 3 80<br>15 | 10 00<br>39 | 23 40<br>92   | 23 00<br>91   | 3 80<br>15 | 6 0<br>24  |
| 16S        | 26 50<br>1 04  | 24 60<br>97   | 3 80<br>15 | 10 00<br>39 | 26 60<br>1 05 | 24 60<br>97   | 3 80<br>15 | 6 0<br>24  |
| 16         | 26 50<br>1 04  | 24 60<br>97   | 3 80<br>15 | 10 00<br>39 | 26 60<br>1 05 | 24 60<br>97   | 3 80<br>15 | 5 30<br>21 |
| 18         | 29 80<br>1 17  | 27 00<br>1 06 | 4 60<br>18 | 10 00<br>39 | 29 70<br>1 17 | 27 00<br>1 06 | 4 60<br>18 | 5 30<br>21 |
| 20         | 34 60<br>1 36  | 29 40<br>1 16 | 4 60<br>18 | 10 00<br>39 | 32 90<br>1 29 | 29 40<br>1 16 | 4 60<br>18 | 5 30<br>21 |
| 22         | 36 20<br>1 43  | 31 75<br>1 25 | 4 60<br>18 | 10 00<br>39 | 36 10<br>1 42 | 31 75<br>1 25 | 4 60<br>18 | 5 30<br>21 |
| 24         | 41 10<br>1 62  | 34 90<br>1 37 | 4 60<br>18 | 10 00<br>39 | 39 30<br>1 55 | 34 90<br>1 37 | 4 60<br>18 | 5 30<br>21 |
| 28         | 46 30<br>1 82  | 39 65<br>1 56 | 4 60<br>18 | 10 00<br>39 | 45 60<br>1 79 | 39 65<br>1 56 | 4 60<br>18 | 5 30<br>21 |



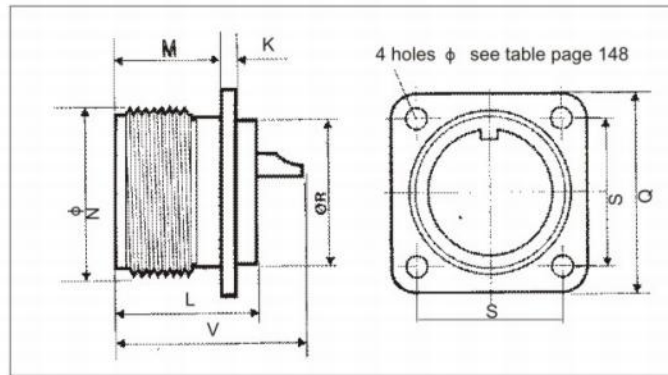
# 5015-2 Series

## Jam nut receptacle type 07



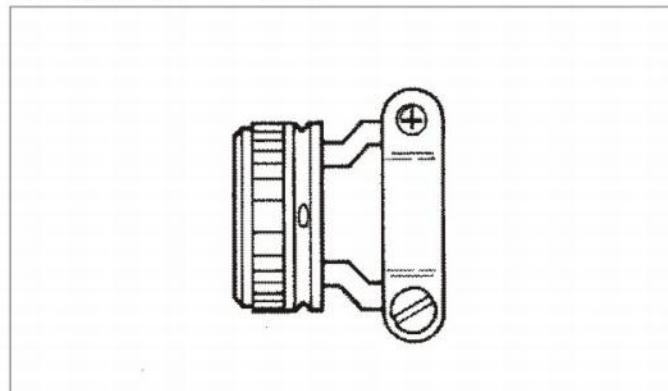
| shell size | K          | L             | M             | N             | S             | T             | V                    |
|------------|------------|---------------|---------------|---------------|---------------|---------------|----------------------|
| 10SL       | 2 00<br>08 | 32 00<br>1 26 | 22 30<br>88   | 15 84<br>62   | 26 00<br>1 02 | 20 00<br>79   | 5/8-24<br>UNEF 2A    |
| 12S        | 2 00<br>08 | 32 00<br>1 26 | 22 30<br>88   | 19 02<br>75   | 29 00<br>1 14 | 23 00<br>91   |                      |
| 14S        | 2 00<br>08 | 32 00<br>1 26 | 22 30<br>88   | 22 19<br>87   | 32 50<br>1 44 | 26 97<br>1 06 | 3/4-20<br>UNEF 2A    |
| 16S        | 2 00<br>08 | 32 00<br>1 26 | 22 30<br>88   | 25 40<br>1 00 | 36 50<br>1 44 | 30 17<br>1 19 | 7/8-24<br>UNEF 2A    |
| 16         | 2 00<br>08 | 36 50<br>1 44 | 26 60<br>1 05 | 25 40<br>1 00 | 36 50<br>1 44 | 30 17<br>1 19 | 7/8-20<br>UNEF 2A    |
| 18         | 2 20<br>09 | 36 50<br>1 44 | 26 60<br>1 05 | 28 50<br>1 12 | 39 00<br>1 54 | 33 32<br>1 31 | 1"-20<br>UNEF 2A     |
| 20         | 2 20<br>09 | 36 50<br>1 44 | 26 60<br>1 05 | 31 70<br>1 25 | 44 00<br>1 73 | 36 52<br>1 44 | 1 1/8"-18<br>UNEF 2A |
| 22         | 2 20<br>09 | 36 50<br>1 44 | 26 60<br>1 05 | 34 88<br>1 37 | 47 20<br>1 86 | 39 67<br>1 56 | 1 1/4"-18<br>UNEF 2A |
| 24         | 2 20<br>09 | 36 50<br>1 44 | 26 60<br>1 05 | 38 05<br>1 50 | 50 50<br>1 99 | 42 87<br>1 69 | 1 1/2"-18<br>UNEF 2A |
| 28         | 2 20<br>09 | 36 50<br>1 44 | 26 60<br>1 05 | 44 40<br>1 75 | 57 00<br>2 24 | 50 00<br>1 97 | 1 3/8"-18<br>UNEF 2A |

## Hermetic square flange recep type 02H



| shell size | K          | L           | M           | N             | Q             | R             | S             | V             |
|------------|------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|
| 10SL       | 1 60<br>06 | 20 40<br>80 | 16 55<br>65 | 15 84<br>62   | 25 25<br>99   | 12 70<br>50   | 18 25<br>72   | 29 20<br>1 15 |
| 12S        | 1 60<br>06 | 20 40<br>80 | 16 55<br>65 | 19 02<br>75   | 27 60<br>1 08 | 16 70<br>66   | 20 60<br>81   | 29 20<br>1 15 |
| 14S        | 1 60<br>06 | 20 40<br>80 | 16 55<br>65 | 22 19<br>87   | 30 00<br>1 18 | 18 30<br>72   | 23 00<br>91   | 29 20<br>1 15 |
| 16S        | 1 60<br>06 | 20 40<br>80 | 16 55<br>65 | 25 40<br>1 00 | 32 60<br>1 28 | 21 40<br>84   | 24 60<br>97   | 29 20<br>1 15 |
| 18         | 2 00<br>08 | 25 15<br>99 | 20 65<br>81 | 28 50<br>1 12 | 35 00<br>1 38 | 24 70<br>97   | 26 97<br>1 06 | 33 70<br>1 32 |
| 20         | 2 00<br>08 | 25 15<br>99 | 21 05<br>83 | 31 70<br>1 25 | 37 40<br>1 47 | 29 40<br>1 15 | 29 40<br>1 16 | 33 70<br>1 35 |
| 28         | 2 00<br>08 | 25 15<br>99 | 21 05<br>83 | 44 40<br>1 74 | 50 65<br>1 99 | 41 30<br>1 62 | 39 65<br>1 56 | 33 70<br>1 32 |

## Straight cable clamps



| shell size | part number |
|------------|-------------|
| 10/12      | 8950-F-12   |
| 14         | 8950-F-14   |
| 16         | 8950-F-16   |
| 18         | 8950-F-18   |
| 20         | 8950-F-20   |
| 22         | 8950-F-22   |
| 24         | 8950-F-24   |
| 28         | 8950-F-28   |

when using with 892 04 ESC connectors -04 should be added to the backshell number e.g 8950-F-12-04 size 12 only

# MIL-C-5015 Style 插针排布 (Contact Arrangements)

|                    | Shell Size 8 | Shell Size 10 |           |               | Shell Size 12 |           |           |       |       |
|--------------------|--------------|---------------|-----------|---------------|---------------|-----------|-----------|-------|-------|
| Insert Arrangement |              |               |           |               |               |           |           |       |       |
| Service Rating     | 8S-1         | 10S-2         | 10SL-3    | 10SL-4        | 12S-1         | 12S-3     | 12S-4     | 12S-5 |       |
| Number of Contacts | A 1          | A 1           | INST, A 3 | A 2           | A 2           | A 2       | D 1       | D 1   |       |
| Contact Size       | 16           | 16            | 16        | 16            | 16            | 16        | 16        | 12    |       |
|                    |              | Shell Size 14 |           |               |               |           |           |       |       |
| Insert Arrangement |              |               |           |               |               |           |           |       |       |
| Service Rating     |              | 14S-1         | 14S-2     | 14-3          | 14S-4         | 14S-5     | 14S-6     | 14S-7 | 14S-9 |
| Number of Contacts |              | A 3           | INST 4    | A 1           | D 1           | INST 5    | INST 6    | A 3   | A 2   |
| Contact Size       |              | 16            | 16        | 8             | 16            | 16        | 16        | 16    | 16    |
|                    |              | Shell Size 14 |           | Shell Size 16 |               |           |           |       |       |
| Insert Arrangement |              |               |           |               |               |           |           |       |       |
| Service Rating     |              | 14S-12        | 16S-01    | 16S-1         | 16S-4         | 16S-5     | 16S-6     |       |       |
| Number of Contacts |              | A 3           | A 8       | A 7           | D 2           | A 3       | A 3       |       |       |
| Contact Size       |              | 16            | 16        | 16            | 16            | 16        | 16        |       |       |
|                    |              | Shell Size 16 |           |               |               |           |           |       |       |
| Insert Arrangement |              |               |           |               |               |           |           |       |       |
| Service Rating     |              | 16S-8         | 16-9      | 16-10         | 16-11         | 16-12     | 16-13     |       |       |
| Number of Contacts |              | A 5           | A 2       | A 3           | A 2           | A 1       | A 2       |       |       |
| Contact Size       |              | 16            | 16 12     | 12            | 12            | 4         | 12        |       |       |
|                    |              | Shell Size 18 |           |               |               |           |           |       |       |
| Insert Arrangement |              |               |           |               |               |           |           |       |       |
| Service Rating     |              | 18-1          | 18-2      | 18-3          | 18-4          | 18-5      | 18-8      |       |       |
| Number of Contacts |              | A(B,C,F,G)    | 24V       | D             | D             | D         | A         |       |       |
| Contact Size       |              | 10 16         | 3 16      | 2 12          | 4 16          | 1 2 16 12 | 7 1 16 12 |       |       |
|                    |              | Shell Size 18 |           |               |               |           |           |       |       |
| Insert Arrangement |              |               |           |               |               |           |           |       |       |
| Service Rating     |              | 18-9          | 18-10     | 18-11         | 18-12         | 18-13     | 18-14     |       |       |
| Number of Contacts |              | INST 5        | A 4       | A 5           | A 6           | A 3       | A 1       |       |       |
| Contact Size       |              | 16 12         | 12        | 12            | 16            | 12 8      | 16 4      |       |       |

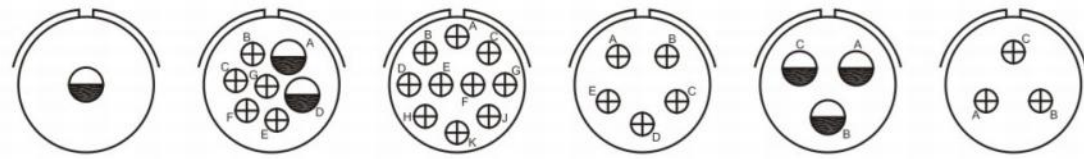
1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.





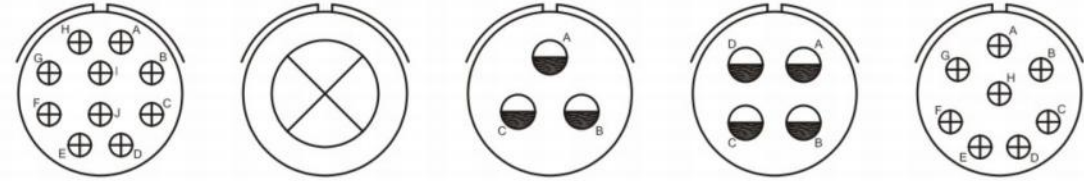
# MIL-C-5015 Style 插针排布 (Contact Arrangements)

Shell Size 18



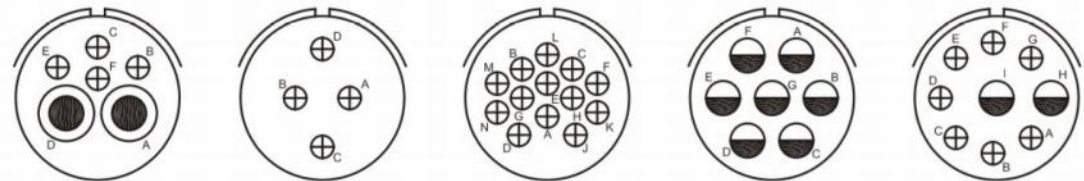
|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
| Insert Arrangement | 18-16 | 18-18 | 18-19 | 18-20 | 18-21 | 18-22 |
| Service Rating     | C     | INST  | A     | A     | A     | D     |
| Number of Contacts | 1     | 5 2   | 10    | 5     | 3     | 3     |
| Contact Size       | 16    | 16 12 | 16    | 16    | 12    | 16    |

Shell Size 20



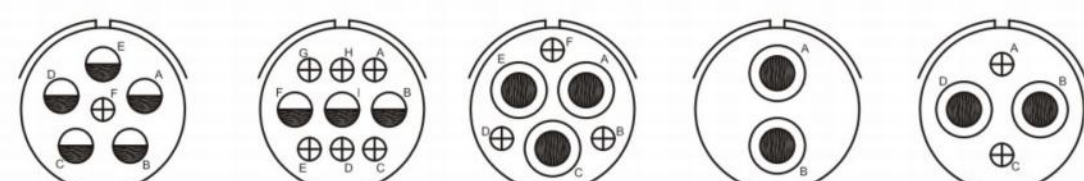
|                    |       |      |      |      |               |
|--------------------|-------|------|------|------|---------------|
| Insert Arrangement | 20-01 | 20-2 | 20-3 | 20-4 | 20-7          |
| Service Rating     | A     | D    | D    | D    | A(ALL OTHERS) |
| Number of Contacts | 10    | 1    | 3    | 4    | D(A,B,G,H)    |
| Contact Size       | 16    | 0    | 12   | 12   | 8 16          |

Shell Size 20



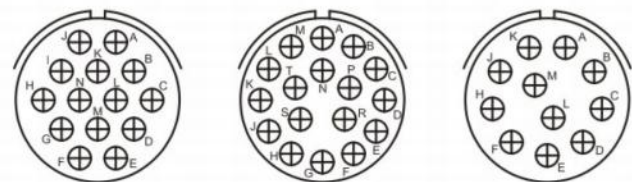
|                    |      |       |       |       |       |
|--------------------|------|-------|-------|-------|-------|
| Insert Arrangement | 20-8 | 20-10 | 20-11 | 20-15 | 20-16 |
| Service Rating     | INST | A     | INST  | A     | A     |
| Number of Contacts | 4 2  | 4     | 13    | 7     | 7 2   |
| Contact Size       | 16 8 | 16    | 16    | 12    | 16 12 |

Shell Size 20



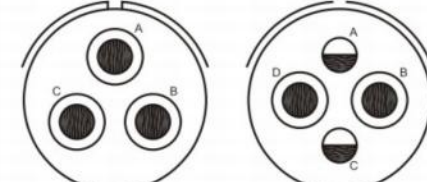
|                    |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|
| Insert Arrangement | 20-17 | 20-18 | 20-22 | 20-23 | 20-24 |
| Service Rating     | A     | A     | A     | A     | A     |
| Number of Contacts | 1 5   | 6 3   | 3 3   | 2     | 2 2   |
| Contact Size       | 16 12 | 16 12 | 16 8  | 8     | 16 8  |

Shell Size 20



|                    |       |       |       |
|--------------------|-------|-------|-------|
| Insert Arrangement | 20-27 | 20-29 | 20-33 |
| Service Rating     | A     | A     | A     |
| Number of Contacts | 14    | 17    | 11    |
| Contact Size       | 16    | 16    | 16    |

Shell Size 22



|                    |      |      |
|--------------------|------|------|
| Insert Arrangement | 22-2 | 22-4 |
| Service Rating     | D    | A    |
| Number of Contacts | 3    | 2 2  |
| Contact Size       | 8    | 12 8 |

1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.



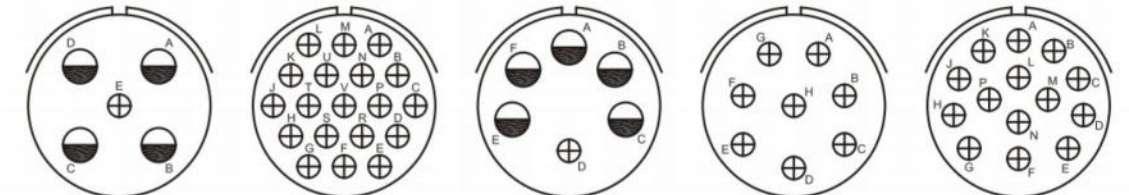
# MIL-C-5015 Style 插针排布 (Contact Arrangements)

Shell Size 22



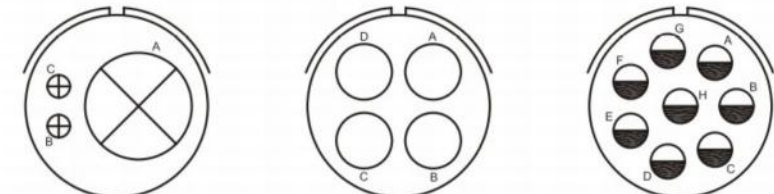
|                    |       |      |      |      |       |
|--------------------|-------|------|------|------|-------|
| Insert Arrangement | 22-5  | 22-7 | 22-8 | 22-9 | 22-10 |
| Service Rating     | D     | E    | E    | E    | E     |
| Number of Contacts | 4 2   | 1    | 2    | 3    | 4     |
| Contact Size       | 16 12 | 0    | 12   | 12   | 16    |

Shell Size 22



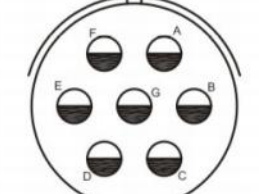
|                    |               |       |               |               |       |
|--------------------|---------------|-------|---------------|---------------|-------|
| Insert Arrangement | 22-13         | 22-14 | 22-15         | 22-18         | 22-19 |
| Service Rating     | A(ALL OTHERS) | A     | A(ALL OTHERS) | A(C,D,E)      | A     |
| Number of Contacts | 1 4           | 19    | 1 5           | D(ALL OTHERS) | 14    |
| Contact Size       | 16 12         | 16    | 16 12         | 8 16          | 16    |

Shell Size 22



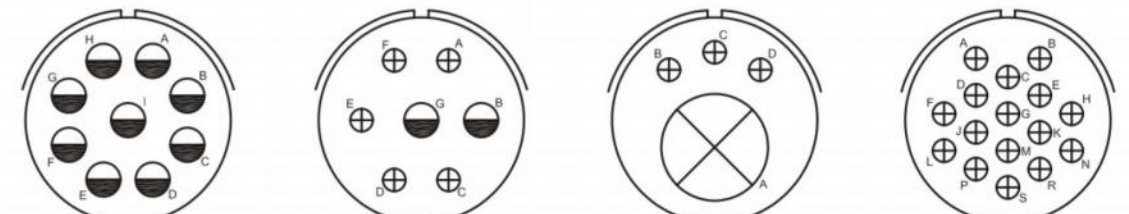
|                    |       |       |                     |
|--------------------|-------|-------|---------------------|
| Insert Arrangement | 22-21 | 22-22 | 22-23               |
| Service Rating     | A     | A     | A(ALL OTHERS), D(H) |
| Number of Contacts | 2 2   | 4     | 8                   |
| Contact Size       | 16 0  | 8     | 12                  |

Shell Size 24



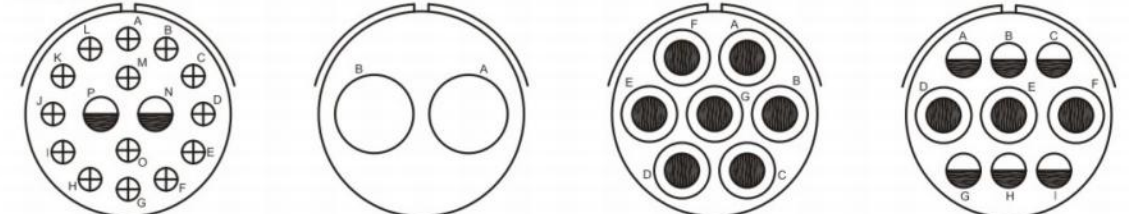
|                    |      |
|--------------------|------|
| Insert Arrangement | 24-2 |
| Service Rating     | D    |
| Number of Contacts | 7    |
| Contact Size       | 12   |

Shell Size 24



|                    |       |       |      |      |
|--------------------|-------|-------|------|------|
| Insert Arrangement | 24-02 | 24-3  | 24-4 | 24-5 |
| Service Rating     | A     | D     | D    | A    |
| Number of Contacts | 9     | 5 2   | 3 1  | 16   |
| Contact Size       | 12    | 16 12 | 16 0 | 16   |

Shell Size 24



|                    |       |      |       |       |
|--------------------|-------|------|-------|-------|
| Insert Arrangement | 24-7  | 24-9 | 24-10 | 24-11 |
| Service Rating     | A     | A    | A     | A     |
| Number of Contacts | 14 2  | 2    | 7     | 6 3   |
| Contact Size       | 16 12 | 4    | 8     | 12 8  |

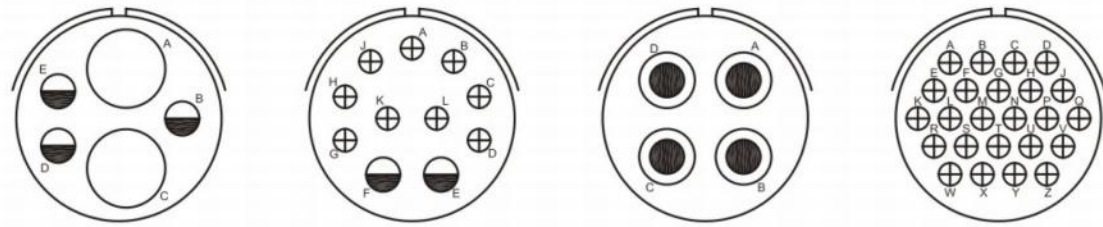
1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.





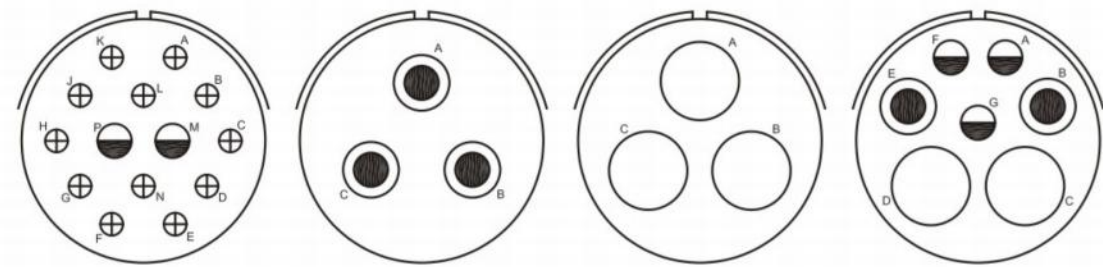
# MIL-C-5015 Style 插针排布 (Contact Arrangements)

Shell Size 24



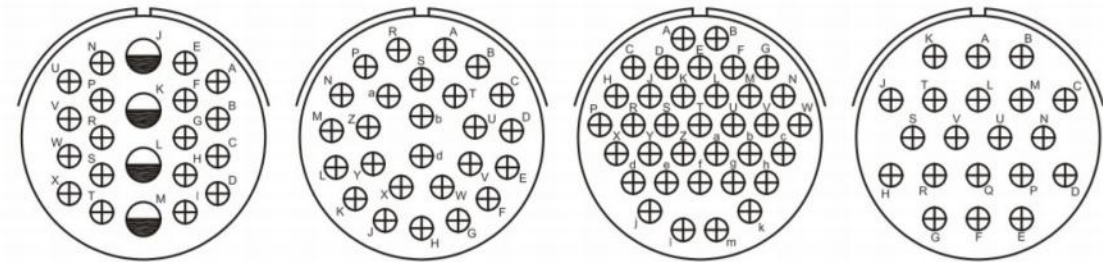
|                    |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Insert Arrangement | 24-12 | 24-20 | 24-22 | 24-28 |
| Service Rating     | A     | D     | D     | INST  |
| Number of Contacts | 3 2   | 9 2   | 4     | 24    |
| Contact Size       | 12 4  | 16 12 | 8     | 12    |

Shell Size 28



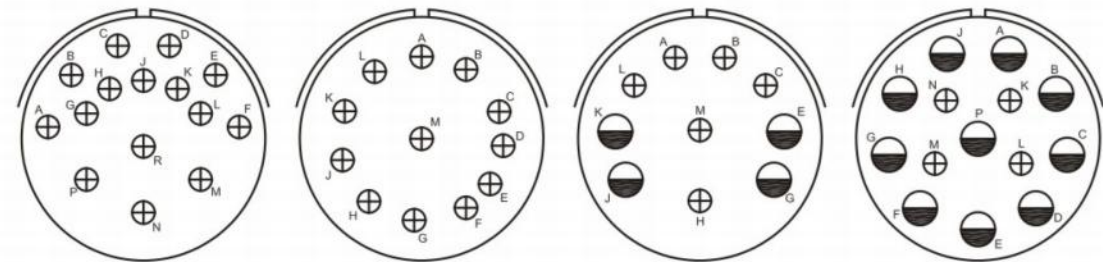
|                    |       |      |      |                     |
|--------------------|-------|------|------|---------------------|
| Insert Arrangement | 28-2  | 28-3 | 28-6 | 28-10               |
| Service Rating     | D     | E    | D    | A(ALL OTHERS), D(G) |
| Number of Contacts | 12 2  | 3    | 3    | 3 2 2               |
| Contact Size       | 16 12 | 8    | 4    | 12 8 4              |

Shell Size 28



|                    |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Insert Arrangement | 28-11 | 28-12 | 28-15 | 28-16 |
| Service Rating     | A     | A     | A     | A     |
| Number of Contacts | 18 4  | 26    | 35    | 20    |
| Contact Size       | 16 12 | 16    | 16    | 16    |

Shell Size 28



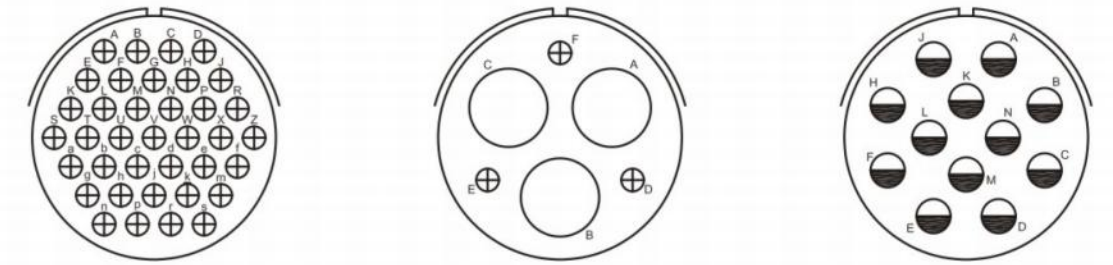
|                    |                                 |  |                                 |       |
|--------------------|---------------------------------|--|---------------------------------|-------|
| Insert Arrangement | 28-17                           | 28-18  | 28-19                           | 28-20 |
| Service Rating     | A(ALL OTHERS)<br>B(R), D(M,N,P) | A(A,B), C(M), INST(C,D,E,F)<br>D(ALL OTHERS) | A(ALL OTHERS)<br>B(H,M), D(A,B) | A     |
| Number of Contacts | 15                              | 12   | 5 4                             | 4 9   |
| Contact Size       | 16                              | 16   | 16 12                           | 16 12 |

1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.



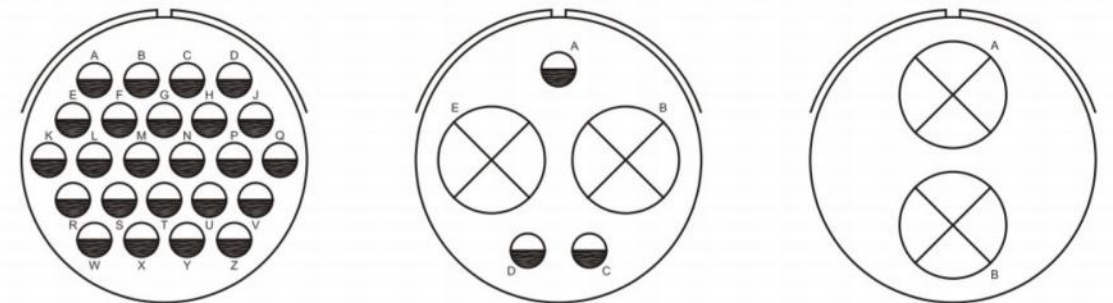
# MIL-C-5015 Style 插针排布 (Contact Arrangements)

Shell Size 28



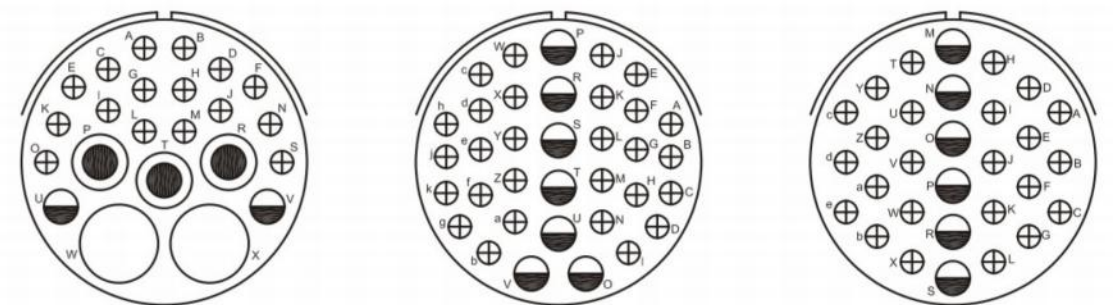
|                    |       |       |       |
|--------------------|-------|-------|-------|
| Insert Arrangement | 28-21 | 28-22 | 28-51 |
| Service Rating     | A     | D     | A     |
| Number of Contacts | 37    | 3 3   | 12    |
| Contact Size       | 16    | 16 4  | 12    |

Shell Size 32



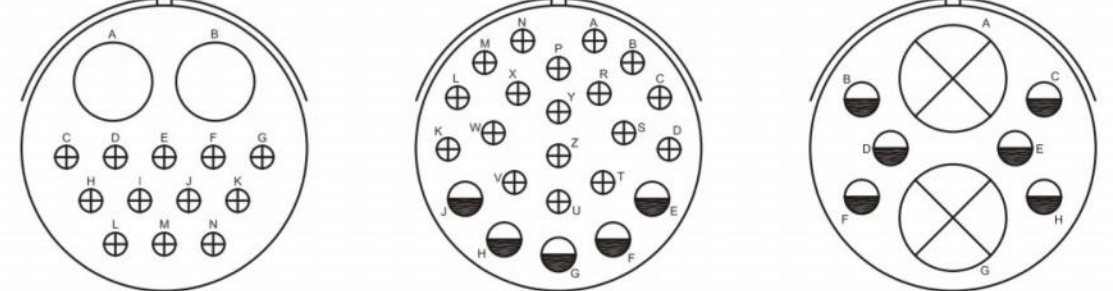
|                    |       |                     |      |
|--------------------|-------|---------------------|------|
| Insert Arrangement | 32-01 | 32-1                | 32-5 |
| Service Rating     | A     | E(A), D(ALL OTHERS) | D    |
| Number of Contacts | 24    | 3 2                 | 2    |
| Contact Size       | 12    | 12 0                | 0    |

Shell Size 32



|                    |           |                              |       |
|--------------------|-----------|------------------------------|-------|
| Insert Arrangement | 32-6      | 32-7                         | 32-8  |
| Service Rating     | A         | A(ALL OTHERS), INST(A,B,h,j) | A     |
| Number of Contacts | 16 2 3 2  | 28 7                         | 24 6  |
| Contact Size       | 16 12 8 4 | 16 12                        | 16 12 |

Shell Size 32



|                    |      |       |       |
|--------------------|------|-------|-------|
| Insert Arrangement | 32-9 | 32-13 | 32-15 |
| Service Rating     | D    | D     | D     |
| Number of Contacts | 12 2 | 18 5  | 6 2   |
| Contact Size       | 16 4 | 16 12 | 12 0  |

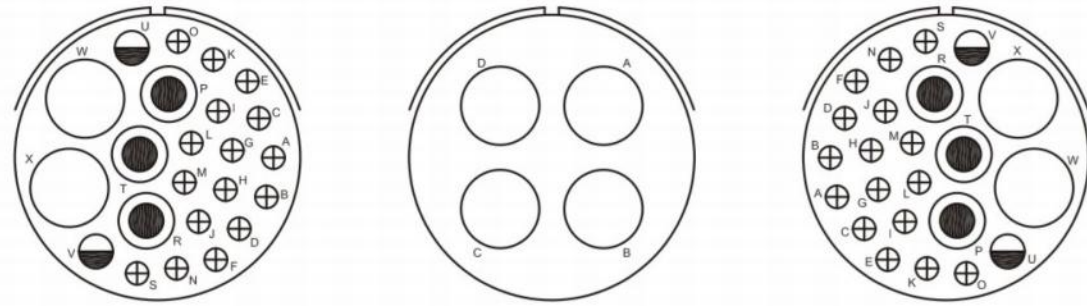
1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.





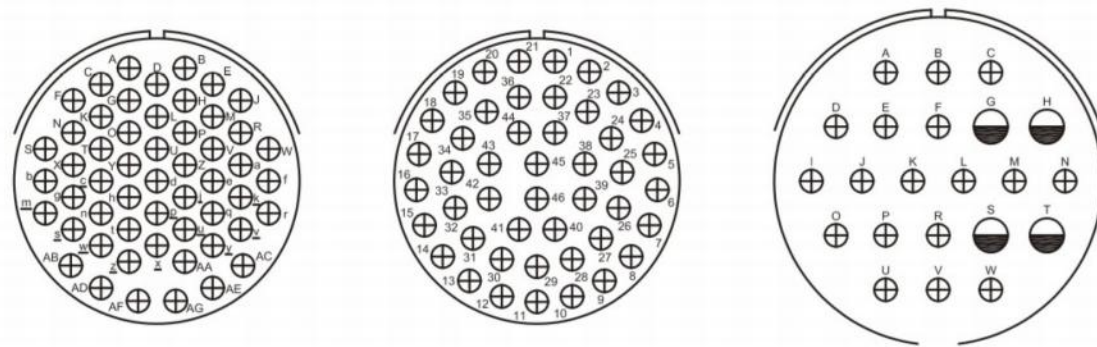
# MIL-C-5015 Style 插针排布 (Contact Arrangements)

Shell Size 32



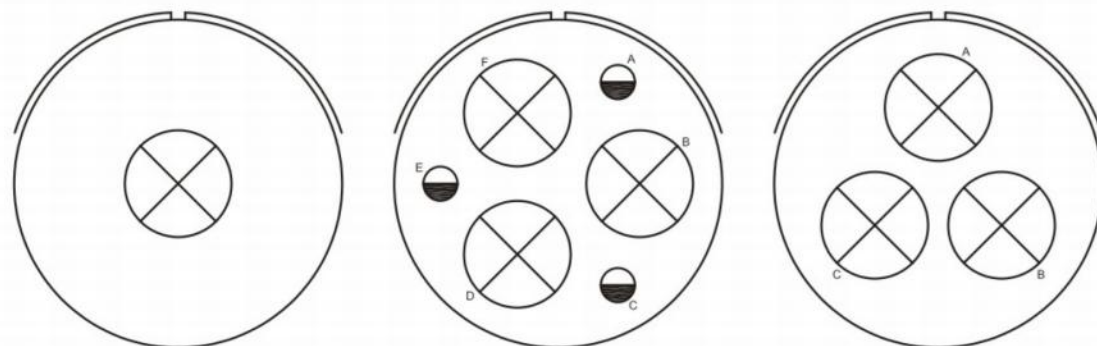
|  |       |    |   |   |       |   |   |   |       |    |   |   |
|--|-------|----|---|---|-------|---|---|---|-------|----|---|---|
| Insert Arrangement<br>Service Rating<br>Number of Contacts<br>Contact Size | 32-16 |    |   |   | 32-17 |   |   |   | 32-20 |    |   |   |
|  | A     |    |   |   | D     |   |   |   | A     |    |   |   |
|  | 16    | 2  | 3 | 2 | 4     | 4 | 4 | 4 | 16    | 2  | 3 | 2 |
|  | 16    | 12 | 8 | 4 | 4     | 4 | 4 | 4 | 16    | 12 | 8 | 4 |

Shell Size 32



|  |       |    |    |    |       |    |    |    |      |    |   |    |
|--|-------|----|----|----|-------|----|----|----|------|----|---|----|
| Insert Arrangement<br>Service Rating<br>Number of Contacts<br>Contact Size | 32-22 |    |    |    | 32-73 |    |    |    | 36-1 |    |   |    |
|  | A     |    |    |    | A     |    |    |    | D    |    |   |    |
|  | 54    | 54 | 16 | 16 | 46    | 46 | 16 | 16 | 18   | 4  | 3 | 12 |
|  | 16    | 12 | 8  | 4  | 16    | 12 | 8  | 4  | 16   | 12 | 8 | 4  |

Shell Size 36



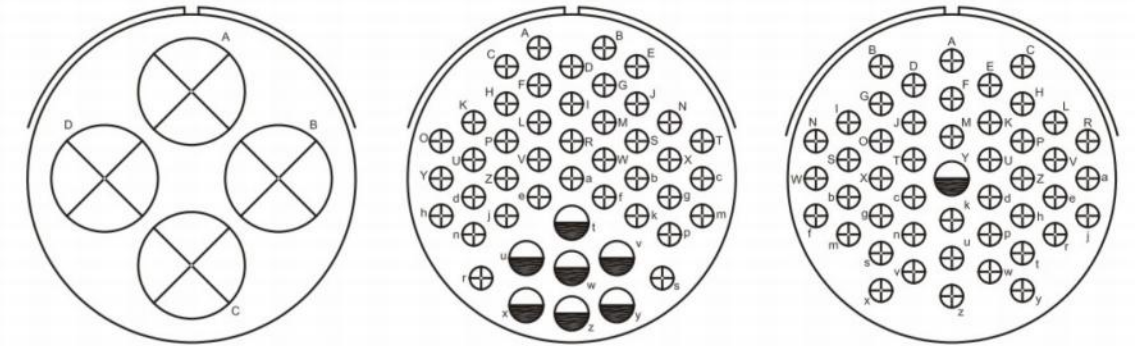
|  |       |   |   |   |      |   |    |   |              |   |    |   |
|--|-------|---|---|---|------|---|----|---|--------------|---|----|---|
| Insert Arrangement<br>Service Rating<br>Number of Contacts<br>Contact Size | 36-03 |   |   |   | 36-3 |   |    |   | 36-4         |   |    |   |
|  | A     |   |   |   | D    |   |    |   | A(B,C), D(A) |   |    |   |
|  | 1     | 1 | 3 | 3 | 3    | 3 | 12 | 0 | 3            | 3 | 12 | 0 |
|  | 0     | 0 | 0 | 0 | 0    | 0 | 0  | 0 | 0            | 0 | 0  | 0 |

1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.



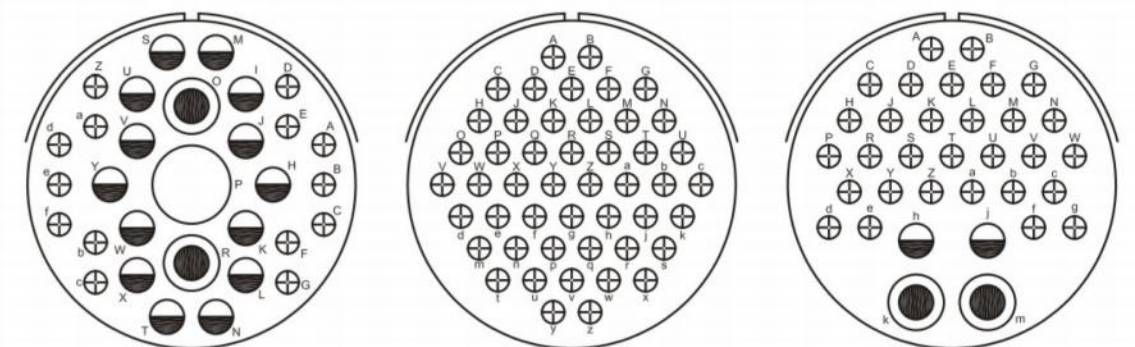
# MIL-C-5015 Style 插针排布 (Contact Arrangements)

Shell Size 36



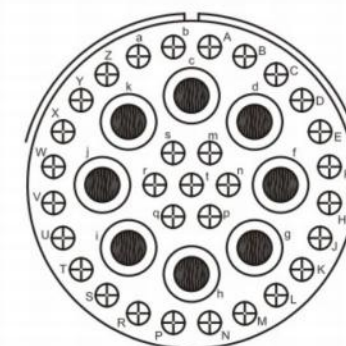
|  |      |   |   |   |      |    |    |    |      |    |    |    |
|--|------|---|---|---|------|----|----|----|------|----|----|----|
| Insert Arrangement<br>Service Rating<br>Number of Contacts<br>Contact Size | 36-5 |   |   |   | 36-7 |    |    |    | 36-8 |    |    |    |
|  | A    |   |   |   | A    |    |    |    | A    |    |    |    |
|  | 4    | 4 | 7 | 7 | 40   | 7  | 16 | 12 | 46   | 1  | 16 | 12 |
|  | 0    | 0 | 0 | 0 | 16   | 12 | 8  | 4  | 16   | 12 | 8  | 4  |

Shell Size 36



|  |      |    |   |   |       |    |   |   |       |    |   |   |
|--|------|----|---|---|-------|----|---|---|-------|----|---|---|
| Insert Arrangement<br>Service Rating<br>Number of Contacts<br>Contact Size | 36-9 |    |   |   | 36-10 |    |   |   | 36-20 |    |   |   |
|  | A    |    |   |   | A     |    |   |   | A     |    |   |   |
|  | 14   | 14 | 2 | 1 | 48    | 2  | 2 | 2 | 30    | 2  | 2 | 2 |
|  | 16   | 12 | 8 | 4 | 16    | 12 | 8 | 4 | 16    | 12 | 8 | 4 |

Shell Size 36



|  |       |   |   |   |
|--|-------|---|---|---|
| Insert Arrangement<br>Service Rating<br>Number of Contacts<br>Contact Size | 36-54 |   |   |   |
|  | A     |   |   |   |
|  | 31    | 8 | 8 | 8 |
|  | 16    | 8 | 8 | 8 |

1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.





## 概述 (Overview)

MIL-C-26482系列连接器由于其优良的电气性、机械性和耐环境特性，使其广泛应用于军事、通信设备。不同的插针排布拥有准确和稳定的连接。而且卡口连接方式可让其不容易断开。因此，连接时间减少到最低限度和不受振动的影响。这个样本的MS3110系列是著名的连接器是使用焊接连接电缆的标准模型。如果您有如何不同类型、形状或插针排布等疑问，请联系我们。

The MIL-DTL-26482 Style is a compact connector widely used in military communications equipment due to its excellent electrical, mechanical, and environmental characteristics. The five different guide keys allow accurate and stable coupling. Also, the Bayonet coupling method allows it to be put on and off easily. As a result, the coupling time is cut down to a minimum and left unaffected by vibrations. This pamphlet based the MS3110 Series Class "E" connector, which uses Soldering type to connect to cables, as the standard model. If you have any inquiries on different types, class, shape, or connection arrangements please contact us separately.



## MIL-C-26482 Series

MIL-C-26482 Series/Style Connector  
ISO 9001/ISO14001



### 选型说明 (Ordering Information)

#### Military Nomenclature



#### HWMS Number Shell Size

- HWMS3110 - Wall Mounting Receptacle  
墙式安装插座
- HWMS3111 - Cable Connecting Plug  
电缆连接插座
- HWMS3112 - Box Mounting Receptacle (Class E Only)  
盒式安装插座
- HWMS3114 - Jam Nut Receptacle  
锁紧螺母插座
- HWMS3116 - Straight Plug  
直插头
- HWMS3119 - Thru-Bulkhead Receptacle (Class E Only)  
插入隔板式插座
- Class
  - A - General Duty (not MS Approved)  
通用型尾夹
  - E - Grommet seal except on 3112 (MS Specification)
  - F - Grommet seal with strain relief (MS Specification)
  - P - Potted (MS Specification)
- Shell Size
  - 8, 10, 12, 14, 16, 18, 20, 22, 24
- Contact Arrangement
  - MIL-STD-1669 - see page 38

#### • Contact Style

- P - Pin 插针
- S - Socket 插孔

#### • Alternate Insert Positions

- 防插错排布
- N (Normal), W, X, Y, Z (MIL-STD-1669) - see page 37

#### • Finish

- Blank - Conductive Olive Drab Chromate Over Cadmium or Zinc Plate
- 01 - Black Anodize  
氧化黑色
- 02 - Electroless Nickel Plate  
表面镀锌
- 03 - Olive Drab Cadmium  
橄榄绿
- 04 - Zinc Cobalt Plate  
表面镀铬深蓝色





技术资料 (Technical Data)

材质与外壳表面处理 (Standard Materials and Finishes)

| Description                | Materials and Finishes  |
|----------------------------|---|
| 外壳 (Shell)                 | Aluminum alloy, conductive olive drab chromate over cadmium or Zinc finish QQ-P-416 |
| 端子 (Insulator)             | Polychloroprene   |
| 绝缘垫圈和密封 (Grommet and seal) | Polychloroprene   |
| 插芯 (contacts)              | Copper alloy, gold plate per MIL-G-45204 Type II                                    |

产品性能 (Electrical Data)

| Wire Range Accommodations |               | Insulation O.D. Limits |      | Contact Rating |            |              |                |
|---------------------------|---------------|------------------------|------|----------------|------------|--------------|----------------|
| contact size              | AWG wire size | Min                    | Max  | contact size   | Rated Amps | Test Current | Millivolt Drop |
| 20                        | 24, 22, 20    | 1.52                   | 2.11 | 20             | 7.5        | 7.5          | 55             |
| 16                        | 20, 18, 16    | 1.68                   | 2.77 | 16             | 22.0       | 13.0         | 49             |
| 12                        | 12, 14        | 2.46                   | 3.61 | 12             | 23.0       | 20.0         | 42             |

Dielectric Withstanding Voltage

| Service Rating | Operating Voltage. Max. |      | Test Voltage. AC(rms), 60cps |            |            |             |
|----------------|-------------------------|------|------------------------------|------------|------------|-------------|
|                | AC(rms)                 | DC   | Sea Level                    | 50,000(ft) | 70,000(ft) | 110,000(ft) |
| I              | 600                     | 850  | 1500                         | 500        | 375        | 200         |
| II             | 1000                    | 1275 | 2300                         | 750        | 500        | 200         |

|                                    |                            |
|------------------------------------|----------------------------|
| 工作温度 (Operating Temperature Range) | -55°C ~ +125°C             |
| 绝缘电阻 (Insulation Resistance)       | 5000MΩ Min. (at 25°C)      |
| 插拔次数 (Durability)                  | 500 cycle, mate and unmate |

MIL-C-26482 Series I Style ( Solder Type)

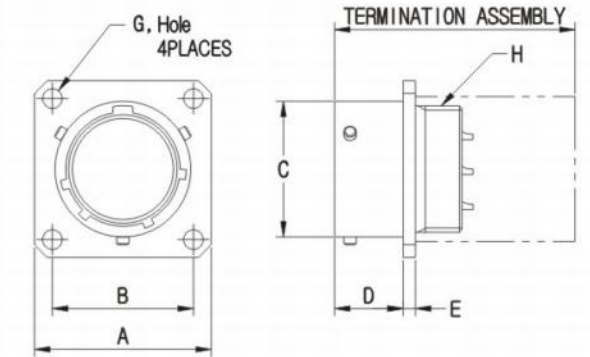
Wall Mounting Receptacle (MS3110)

墙式安装插座

HWMS 3110 CLASS "A", "E", "F", "P"

E, F Type - Includes grommet and bushing.

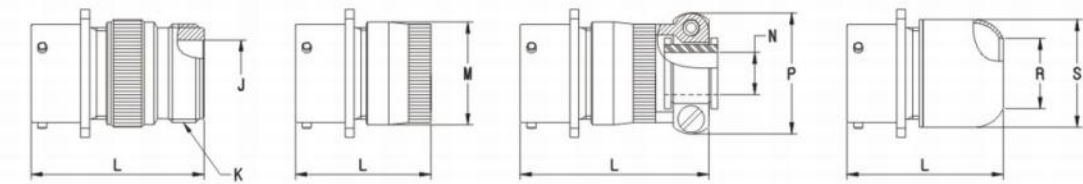
E、F型-包括绝缘垫圈和套管



Unit: mm

| Shell Size | A<br>Max. | B<br>±0.10 | C Dia.<br>+0.00<br>-0.15 | D<br>+0.79<br>-0.00 | E<br>±0.41 | G Dia.<br>±0.13 | H Thread.<br>(Class: 2A) |
|------------|-----------|------------|--------------------------|---------------------|------------|-----------------|--------------------------|
| 8          | 21.03     | 15.09      | 12.04                    | 10.95               | 1.57       | 3.05            | 7/16-28UNEF              |
| 10         | 24.23     | 18.26      | 15.01                    | 10.95               | 1.57       | 3.05            | 9/16-24UNEF              |
| 12         | 26.59     | 20.62      | 19.08                    | 10.95               | 1.57       | 3.05            | 11/16-24UNEF             |
| 14         | 28.98     | 23.01      | 22.25                    | 10.95               | 1.57       | 3.05            | 13/16-20UNEF             |
| 16         | 31.34     | 24.61      | 25.43                    | 10.95               | 1.57       | 3.05            | 15/16-20UNEF             |
| 18         | 33.73     | 26.97      | 28.60                    | 10.95               | 1.57       | 3.05            | 1 1/16-18UNEF            |
| 20         | 36.91     | 29.36      | 31.78                    | 14.12               | 2.39       | 3.05            | 1 3/16-18UNEF            |
| 22         | 40.08     | 31.75      | 34.95                    | 14.12               | 2.39       | 3.05            | 1 5/16-18UNEF            |

Termination Assembly



"A" TYPE

"E" TYPE

"F" TYPE

"P" TYPE

Unit: mm

| Shell Size | CLASS "A" |        |                          | CLASS "E" |                | CLASS "F" |                |           | CLASS "P" |                |                |
|------------|-----------|--------|--------------------------|-----------|----------------|-----------|----------------|-----------|-----------|----------------|----------------|
|            | L<br>Max. | J Dia. | K Thread.<br>(Class: 2A) | L<br>Max. | M Dia.<br>Max. | L<br>Max. | N Dia.<br>Min. | P<br>Max. | L<br>Max. | R Dia.<br>Min. | S Dia.<br>Max. |
| 8          | 36.68     | 8.15   | 1/2-28UNEF               | 33.73     | 15.44          | 48.82     | 2.92           | 21.03     | 36.91     | 8.05           | 15.44          |
| 10         | 36.68     | 11.84  | 5/8-24UNEF               | 33.73     | 18.64          | 48.82     | 4.52           | 22.63     | 36.91     | 11.02          | 18.64          |
| 12         | 36.68     | 15.01  | 3/4-20UNEF               | 33.73     | 21.79          | 48.82     | 7.67           | 25.81     | 36.91     | 13.92          | 21.79          |
| 14         | 36.68     | 19.05  | 7/8-20UNEF               | 33.73     | 24.99          | 48.82     | 9.27           | 28.98     | 36.91     | 17.09          | 24.99          |
| 16         | 36.68     | 21.08  | 1-20UNEF                 | 33.73     | 28.19          | 51.99     | 12.45          | 30.56     | 36.91     | 20.27          | 28.19          |
| 18         | 36.68     | 24.08  | 1 3/16-18UNEF            | 33.73     | 31.34          | 52.78     | 15.62          | 37.31     | 36.91     | 22.83          | 31.34          |
| 20         | 43.89     | 26.49  | 1 3/16-18UNEF            | 38.89     | 34.54          | 59.54     | 15.62          | 37.31     | 42.47     | 26.01          | 34.54          |
| 22         | 43.89     | 30.43  | 1 7/16-18UNEF            | 38.89     | 37.69          | 59.54     | 18.80          | 42.06     | 42.47     | 29.18          | 37.69          |



# MIL-C-26482 Series I Style ( Solder Type)

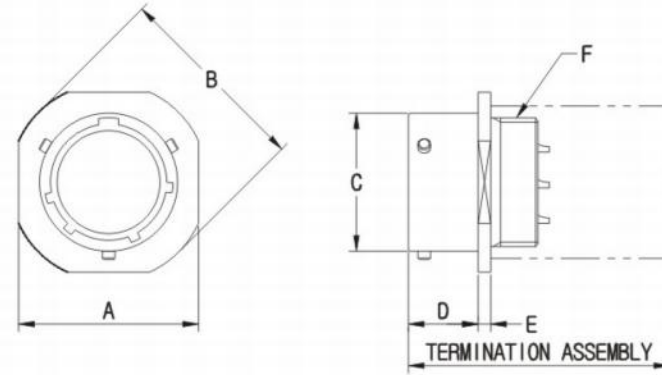
## Cable Connecting Plug (MS3111)

电缆连接插座

HWMS 3111 CLASS "A", "E", "F", "P"

E, F Type - 包括绝缘垫圈和套管

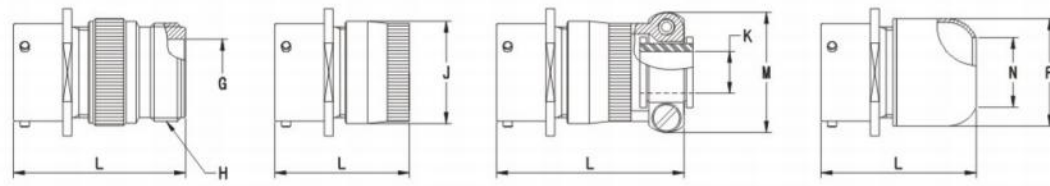
E, F Type - Includes grommet and bushing.



Unit: mm

| Shell Size | A     | B Dia. | C Dia.         | D              | E     | F Thread.     |
|------------|-------|--------|----------------|----------------|-------|---------------|
|            | Max.  | ±0.51  | +0.00<br>-0.15 | +0.79<br>-0.00 | ±0.41 | (Class: 2A)   |
| 8          | 21.03 | 23.83  | 12.04          | 10.16          | 2.39  | 7/16-28UNEF   |
| 10         | 24.23 | 26.97  | 15.01          | 10.16          | 2.39  | 9/16-24UNEF   |
| 12         | 26.59 | 29.36  | 19.08          | 10.16          | 2.39  | 11/16-24UNEF  |
| 14         | 28.98 | 31.75  | 22.25          | 10.16          | 2.39  | 13/16-20UNEF  |
| 16         | 31.34 | 34.14  | 25.43          | 10.16          | 2.39  | 15/16-20UNEF  |
| 18         | 33.73 | 36.53  | 28.60          | 10.16          | 2.39  | 1 1/16-18UNEF |
| 20         | 36.91 | 39.67  | 31.78          | 13.59          | 2.92  | 1 3/16-18UNEF |
| 22         | 40.08 | 42.88  | 34.95          | 13.59          | 2.92  | 1 5/16-18UNEF |

## Termination Assembly



"A" TYPE

"E" TYPE

"F" TYPE

"P" TYPE

Unit: mm

| Shell Size | CLASS "A" |             |                       | CLASS "E" |             | CLASS "F" |             |        | CLASS "P" |             |             |
|------------|-----------|-------------|-----------------------|-----------|-------------|-----------|-------------|--------|-----------|-------------|-------------|
|            | L Max.    | G Dia. Min. | H Thread. (Class: 2A) | L Max.    | J Dia. Max. | L Max.    | K Dia. Min. | M Max. | L Max.    | N Dia. Min. | P Dia. Max. |
| 8          | 36.68     | 8.15        | 1/2-28UNEF            | 33.73     | 15.44       | 48.82     | 2.92        | 21.03  | 36.91     | 8.05        | 15.44       |
| 10         | 36.68     | 11.84       | 5/8-24UNEF            | 33.73     | 18.64       | 48.82     | 4.52        | 22.63  | 36.91     | 11.02       | 18.64       |
| 12         | 36.68     | 15.01       | 3/4-20UNEF            | 33.73     | 21.79       | 48.82     | 7.67        | 25.81  | 36.91     | 13.92       | 21.79       |
| 14         | 36.68     | 19.05       | 7/8-20UNEF            | 33.73     | 24.99       | 48.82     | 9.27        | 28.98  | 36.91     | 17.09       | 24.99       |
| 16         | 36.68     | 21.08       | 1-20UNEF              | 33.73     | 28.19       | 51.99     | 12.45       | 30.56  | 36.91     | 20.27       | 28.19       |
| 18         | 36.68     | 24.08       | 1 3/16-18UNEF         | 33.73     | 31.34       | 52.78     | 15.62       | 37.31  | 36.91     | 22.83       | 31.34       |
| 20         | 43.89     | 26.49       | 1 3/16-18UNEF         | 38.89     | 34.54       | 59.54     | 15.62       | 37.31  | 42.47     | 26.01       | 34.54       |
| 22         | 43.89     | 30.43       | 1 7/16-18UNEF         | 38.89     | 37.69       | 59.54     | 18.80       | 42.06  | 42.47     | 29.18       | 37.69       |

# MIL-C-26482 Series I Style ( Solder Type)

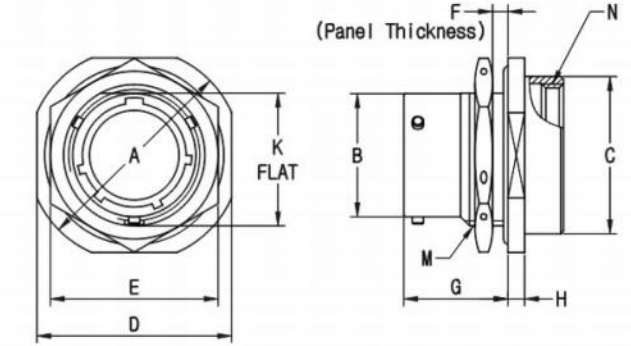
## Jam Nut Receptacle (MS3114)

锁紧螺母插座

HWMS 3114 CLASS "A", "E", "F", "P"

E, F Type - Includes grommet and bushing.

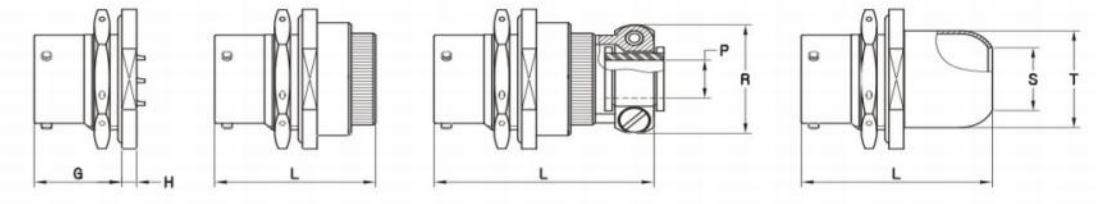
E, F Type - 包括绝缘垫圈和套管



Unit: mm

| Shell Size | A Dia.         | B Dia.         | C Dia. | D     | E     | F    |      | G              | H     | K Flat.        | M Thread.    | N Thread.    |
|------------|----------------|----------------|--------|-------|-------|------|------|----------------|-------|----------------|--------------|--------------|
|            | +0.00<br>-0.81 | +0.00<br>-0.15 | Max.   | Max.  | ±0.43 | Min. | Max. | +0.79<br>-0.00 | ±0.51 | +0.00<br>-0.25 | (Class: 2A)  | (Class: 2B)  |
| 8          | 27.38          | 12.04          | 15.44  | 24.23 | 19.05 | 1.57 | 3.17 | 17.55          | 2.97  | 13.46          | 9/16-24UNEF  | 5/8-24UNEF   |
| 10         | 30.56          | 15.01          | 18.64  | 27.38 | 22.22 | 1.57 | 3.17 | 17.55          | 2.97  | 16.64          | 11/16-24UNEF | 3/4-24UNEF   |
| 12         | 35.33          | 19.08          | 21.79  | 32.16 | 26.97 | 1.57 | 3.17 | 17.55          | 2.97  | 20.78          | 7/8-20UNEF   | 7/8-20UNEF   |
| 14         | 38.51          | 22.25          | 24.99  | 35.33 | 30.17 | 1.57 | 3.17 | 17.55          | 2.97  | 23.93          | 1-20UNEF     | 1-20UNEF     |
| 16         | 41.68          | 25.43          | 28.19  | 38.51 | 33.32 | 1.57 | 3.17 | 17.55          | 2.97  | 27.08          | 1 1/8-18UNEF | 1 1/8-18UNEF |
| 18         | 44.86          | 28.60          | 31.34  | 41.68 | 36.25 | 1.57 | 3.17 | 17.55          | 2.97  | 30.25          | 1 1/4-18UNEF | 1 1/4-18UNEF |
| 20         | 49.63          | 31.78          | 34.54  | 46.43 | 39.67 | 1.57 | 6.35 | 22.33          | 3.76  | 33.43          | 1 3/8-18UNEF | 1 3/8-18UNEF |
| 22         | 52.78          | 34.95          | 37.69  | 49.63 | 42.87 | 1.57 | 6.35 | 22.33          | 3.76  | 36.60          | 1 1/2-18UNEF | 1 1/2-18UNEF |
| 24         | 55.96          | 38.13          | 40.89  | 52.78 | 46.02 | 1.57 | 6.35 | 23.16          | 3.76  | 39.78          | 1 5/8-18UNEF | 1 5/8-18UNEF |

## Termination Assembly



"A" TYPE

"E" TYPE

"F" TYPE

"P" TYPE

Unit: mm

| Shell Size | CLASS "A"      |       | CLASS "E" |       | CLASS "F" |       | CLASS "P" |        |        |
|------------|----------------|-------|-----------|-------|-----------|-------|-----------|--------|--------|
|            | G              | H     | L         | L     | P         | R     | L         | S Dia. | T Dia. |
|            | +0.79<br>-0.00 | ±0.51 | Max.      | Max.  | Min.      | Max.  | Max.      | Min.   | Max.   |
| 8          | 17.55          | 2.97  | 34.14     | 48.41 | 2.92      | 21.03 | 35.33     | 8.05   | 15.44  |
| 10         | 17.55          | 2.97  | 34.14     | 48.41 | 4.52      | 22.63 | 35.33     | 11.02  | 18.64  |
| 12         | 17.55          | 2.97  | 34.14     | 48.41 | 7.67      | 25.81 | 35.33     | 13.92  | 21.79  |
| 14         | 17.55          | 2.97  | 34.14     | 48.41 | 9.27      | 28.98 | 35.33     | 17.09  | 24.99  |
| 16         | 17.55          | 2.97  | 34.14     | 51.99 | 12.45     | 30.56 | 35.33     | 20.27  | 28.19  |
| 18         | 17.55          | 2.97  | 34.14     | 52.78 | 15.62     | 37.31 | 35.33     | 22.83  | 31.34  |
| 20         | 22.33          | 3.76  | 40.49     | 59.13 | 15.62     | 37.31 | 41.68     | 26.01  | 34.54  |
| 22         | 22.33          | 3.76  | 40.49     | 59.13 | 18.80     | 42.06 | 41.68     | 29.18  | 37.69  |
| 24         | 23.16          | 3.76  | 41.68     | 62.31 | 20.07     | 44.45 | 43.26     | 32.36  | 40.89  |



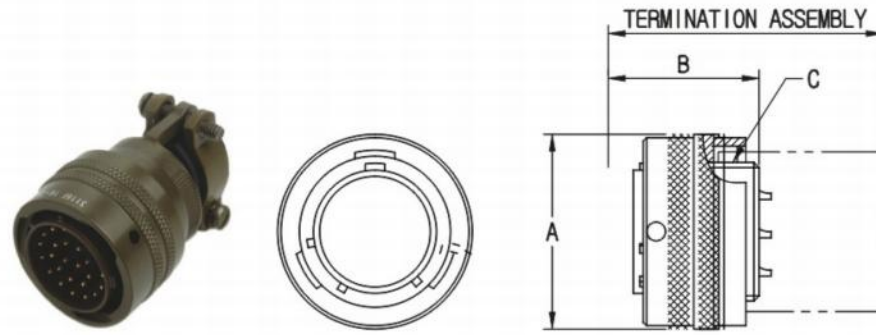
# MIL-C-26482 Series I Style ( Solder Type)

## Straight Plugs (MS3116)

HWMS 3116 CLASS "A", "E", "F", "P"  
直插头

E、F型-包括绝缘垫圈和套管

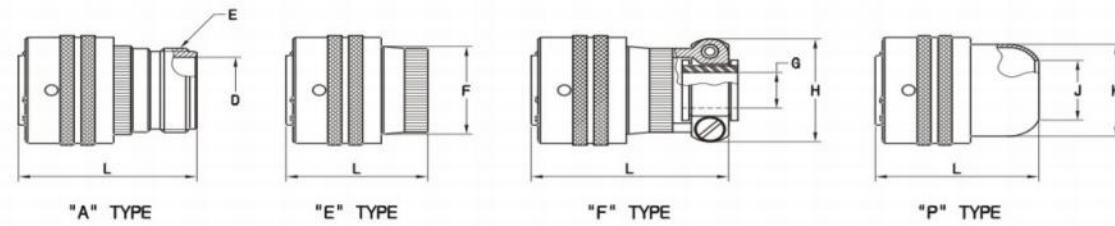
E, F Type - Includes grommet and bushing.



Unit: mm

| Shell Size | A Dia. Max. | B Max. | C Thread. (Class: 2A) |
|------------|-------------|--------|-----------------------|
| 8          | 19.86       | 21.0   | 7/16-28UNEF           |
| 10         | 23.52       | 21.0   | 9/16-24UNEF           |
| 12         | 26.49       | 21.0   | 11/16-24UNEF          |
| 14         | 30.05       | 21.0   | 13/16-20UNEF          |
| 16         | 33.15       | 21.0   | 15/16-20UNEF          |
| 18         | 35.33       | 21.0   | 1 1/16-18UNEF         |
| 20         | 38.89       | 25.5   | 1 3/16-18UNEF         |
| 22         | 42.09       | 25.5   | 1 5/16-18UNEF         |
| 24         | 45.13       | 25.5   | 1 7/16-18UNEF         |

## Termination Assembly



Unit: mm

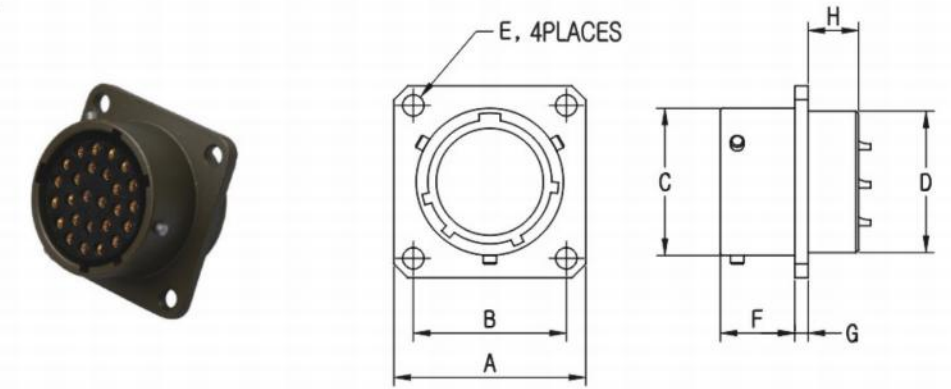
| Shell Size | CLASS "A" |             |                       | CLASS "E" |             | CLASS "F" |             |        | CLASS "P" |             |             |
|------------|-----------|-------------|-----------------------|-----------|-------------|-----------|-------------|--------|-----------|-------------|-------------|
|            | L Max.    | D Dia. Max. | E Thread. (Class: 2A) | L Max.    | F Dia. Max. | L Max.    | G Dia. Min. | H Max. | L Max.    | J Dia. Min. | K Dia. Max. |
| 8          | 36.68     | 8.15        | 1/2-28UNEF            | 33.73     | 15.44       | 48.82     | 2.92        | 21.03  | 36.91     | 8.05        | 15.44       |
| 10         | 36.68     | 11.84       | 5/8-24UNEF            | 33.73     | 18.64       | 48.82     | 4.52        | 22.63  | 36.91     | 11.02       | 18.64       |
| 12         | 36.68     | 15.01       | 3/4-20UNEF            | 33.73     | 21.79       | 48.82     | 7.67        | 25.81  | 36.91     | 13.92       | 21.79       |
| 14         | 36.68     | 19.05       | 7/8-20UNEF            | 33.73     | 24.99       | 48.82     | 9.27        | 28.98  | 36.91     | 17.09       | 24.99       |
| 16         | 36.68     | 21.08       | 1-20UNEF              | 33.73     | 28.19       | 51.99     | 12.45       | 30.56  | 36.91     | 20.27       | 28.19       |
| 18         | 36.68     | 24.08       | 1 3/16-18UNEF         | 33.73     | 31.34       | 52.78     | 15.62       | 37.31  | 36.91     | 22.83       | 31.34       |
| 20         | 43.89     | 26.49       | 1 3/16-18UNEF         | 38.89     | 34.54       | 59.54     | 15.62       | 37.31  | 42.47     | 26.01       | 34.54       |
| 22         | 43.89     | 30.43       | 1 7/16-18UNEF         | 38.89     | 37.69       | 59.54     | 18.80       | 42.06  | 42.47     | 29.18       | 37.69       |
| 24         | 44.15     | 32.84       | 1 7/16-18UNEF         | 40.49     | 40.89       | 61.11     | 20.07       | 44.45  | 44.04     | 32.36       | 40.89       |

# MIL-C-26482 Series I Style ( Solder Type)

## Box Mounting Receptacle (MS3112)

盒式安装插座

HWMS 3112 CLASS "E"



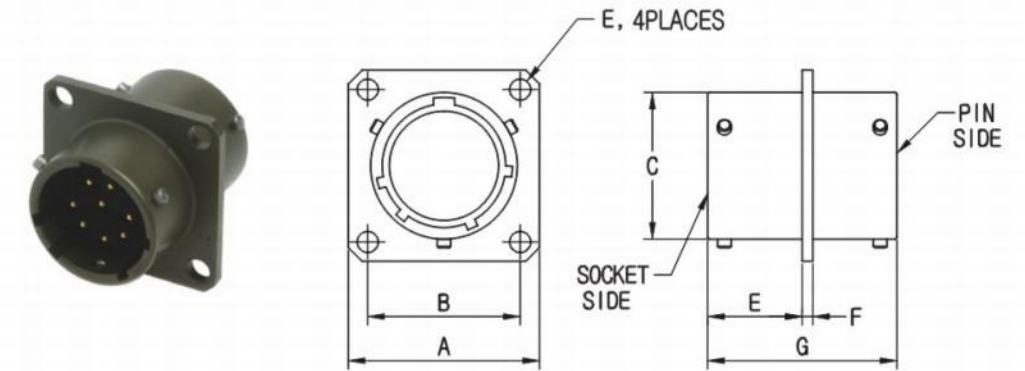
Unit: mm

| Shell Size | A Max. | B ±0.10 | C Dia. +0.00 -0.15 | D Dia. Max. | E Dia. ±0.13 | F +0.79 -0.00 | G ±0.41 | H     |
|------------|--------|---------|--------------------|-------------|--------------|---------------|---------|-------|
| 8          | 21.03  | 15.09   | 12.04              | 11.91       | 3.05         | 10.95         | 1.57    | 8.99  |
| 10         | 24.23  | 18.26   | 15.01              | 15.06       | 3.05         | 10.95         | 1.57    | 8.99  |
| 12         | 26.59  | 20.62   | 19.08              | 18.26       | 3.05         | 10.95         | 1.57    | 8.99  |
| 14         | 28.98  | 23.01   | 22.25              | 21.41       | 3.05         | 10.95         | 1.57    | 8.99  |
| 16         | 31.34  | 24.61   | 25.43              | 24.61       | 3.05         | 10.95         | 1.57    | 8.99  |
| 18         | 33.73  | 26.97   | 28.60              | 27.76       | 3.05         | 10.95         | 1.57    | 8.99  |
| 20         | 36.91  | 29.36   | 31.78              | 30.96       | 3.05         | 14.12         | 2.39    | 10.59 |
| 22         | 40.08  | 31.75   | 34.95              | 34.11       | 3.05         | 14.12         | 2.39    | 10.59 |

## Thru-Bulkhead Receptacle (MS3119)

插入隔板式插座

HWMS 3119 CLASS "E"



Unit: mm

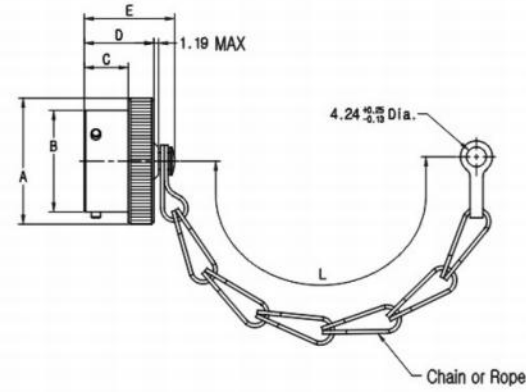
| Shell Size | A Max. | B ±0.10 | C Dia. +0.00 -0.15 | D Dia. ±0.13 | E +0.79 -0.00 | F ±0.41 | G Max. |
|------------|--------|---------|--------------------|--------------|---------------|---------|--------|
| 8          | 21.03  | 15.09   | 12.04              | 3.05         | 10.95         | 1.57    | 28.58  |
| 10         | 24.23  | 18.26   | 15.01              | 3.05         | 10.95         | 1.57    | 28.58  |
| 12         | 26.59  | 20.62   | 19.08              | 3.05         | 10.95         | 1.57    | 28.58  |
| 14         | 28.98  | 23.01   | 22.25              | 3.05         | 10.95         | 1.57    | 28.58  |
| 16         | 31.34  | 24.61   | 25.43              | 3.05         | 10.95         | 1.57    | 28.58  |
| 18         | 33.73  | 26.97   | 28.60              | 3.05         | 10.95         | 1.57    | 28.58  |
| 20         | 36.91  | 29.36   | 31.78              | 3.05         | 14.12         | 2.39    | 35.71  |
| 22         | 40.08  | 31.75   | 34.95              | 3.05         | 14.12         | 2.39    | 35.71  |



## MIL-C-26482 Series I Style (Accessories)

### Plug Protection Cap (MS 3180)

插头防尘盖  
HWMS3180



UNIT: mm

| Shell Size | A Dia.<br>Max. | B Dia.<br>+0.03<br>-0.13 | C<br>+0.79<br>-0.00 | D<br>Max. | E     | L (Standard Length)<br>+12.70<br>-6.35 |
|------------|----------------|--------------------------|---------------------|-----------|-------|--|
| 8          | 18.26          | 12.01                    | 9.35                | 14.27     | 19.84 | 76.20                                  |
| 10         | 21.44          | 14.99                    | 9.35                | 14.27     | 19.84 | 76.20                                  |
| 12         | 25.40          | 19.05                    | 9.35                | 14.27     | 19.84 | 88.90                                  |
| 14         | 28.58          | 22.22                    | 9.35                | 14.27     | 19.84 | 88.90                                  |
| 16         | 31.75          | 25.40                    | 9.35                | 14.27     | 19.84 | 88.90                                  |
| 18         | 34.92          | 28.58                    | 9.35                | 14.27     | 19.84 | 88.90                                  |
| 20         | 38.10          | 31.75                    | 10.92               | 15.88     | 21.44 | 101.60                                 |
| 22         | 41.28          | 34.92                    | 10.92               | 15.88     | 21.44 | 101.60                                 |

### How To Order 选型指南

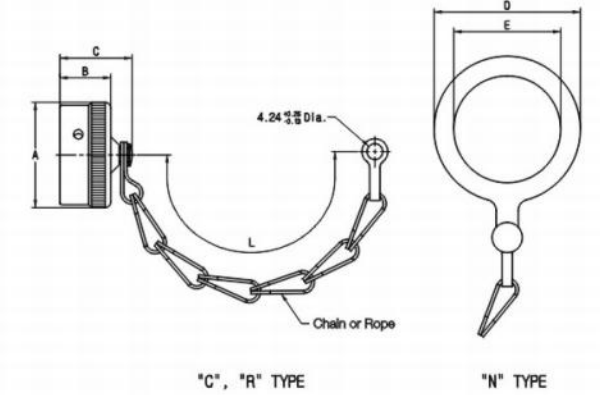


## MIL-C-26482 Series I Style (Accessories)

### Receptacle Protection Cap (MS 3181)

插座防尘盖

HWMS3181



Unit: mm

| Shell Size | A Dia.<br>Max. | B<br>Max. | C<br>Max. | D Dia.<br>Max. | E Dia.<br>Min. | L (Standard Length)<br>+12.70<br>-6.35 |
|------------|----------------|-----------|-----------|----------------|----------------|--|
| 8          | 18.64          | 14.27     | 21.44     | 20.62          | 14.68          | 76.20                                  |
| 10         | 21.82          | 14.27     | 21.44     | 25.40          | 17.86          | 76.20                                  |
| 12         | 25.40          | 14.27     | 21.44     | 30.18          | 22.63          | 88.90                                  |
| 14         | 28.58          | 14.27     | 21.44     | 36.53          | 25.81          | 88.90                                  |
| 16         | 31.75          | 14.27     | 21.44     | 39.67          | 28.98          | 88.90                                  |
| 18         | 34.92          | 14.27     | 21.44     | 42.88          | 32.16          | 88.90                                  |
| 20         | 38.10          | 14.27     | 21.44     | 46.02          | 35.33          | 101.60                                 |
| 22         | 41.28          | 14.27     | 21.44     | 49.23          | 38.51          | 101.60                                 |
| 24         | 44.45          | 15.29     | 22.22     | 52.37          | 41.68          | 101.60                                 |

### How To Order 选型指南



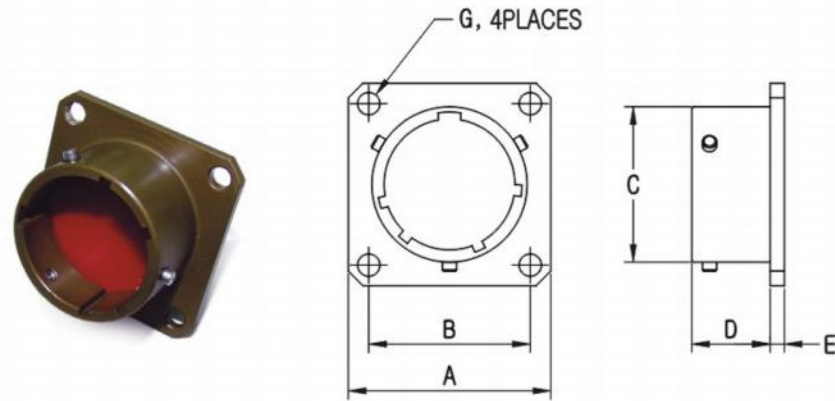


## MIL- C-26482 Series I Style (Accessories)

### Dummy Stowage Receptacle (MS3115)

虚拟母座

HWMS3115



Unit: mm

| Shell Size | A<br>Max. | B<br>±0.10 | C Dia.<br>+0.00<br>-0.15 | D<br>+0.79<br>-0.00 | E<br>±0.41 | G Dia.<br>±0.13 |
|------------|-----------|------------|--------------------------|---------------------|------------|-----------------|
| 8          | 21.03     | 15.09      | 12.04                    | 11.73               | 1.57       | 3.05            |
| 10         | 24.23     | 18.26      | 15.01                    | 11.73               | 1.57       | 3.05            |
| 12         | 26.59     | 20.62      | 19.08                    | 11.73               | 1.57       | 3.05            |
| 14         | 28.98     | 23.01      | 22.25                    | 11.73               | 1.57       | 3.05            |
| 16         | 31.34     | 24.61      | 25.43                    | 11.73               | 1.57       | 3.05            |
| 18         | 33.73     | 26.97      | 28.60                    | 11.73               | 1.57       | 3.05            |
| 20         | 36.91     | 29.36      | 31.78                    | 14.12               | 2.39       | 3.05            |
| 22         | 40.08     | 31.75      | 34.95                    | 14.12               | 2.39       | 3.05            |
| 24         | 43.26     | 34.92      | 38.13                    | 14.96               | 2.39       | 3.73            |

### How To Order 选型指南

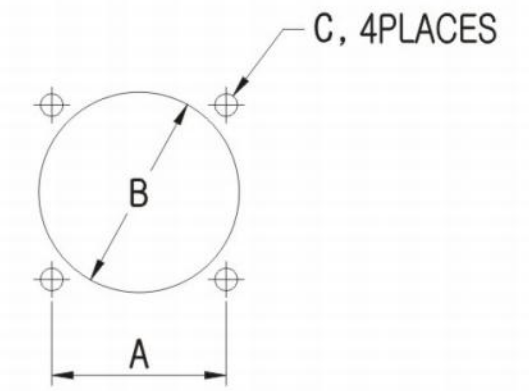
|             |      |          |   |    |   |
|-------------|------|----------|---|----|---|
| Part Number | 产品型号 | HWMS3115 | - | 12 | L |
| Shell Size  | 外壳尺寸 |          |   |    |   |
| Finish      | 表面处理 |          |   |    |   |

A - Hard Anodize 硬质氧化  
 L - Electroless Nickel Palte 化学镀镍  
 W - Olive Drab Cadmium Over Electroless Plate 橄榄绿镀镉  
 04 - Zinc Cobalt Plate 镀锌

## MIL- C-26482 Series I Style Panel Cutouts

### Box and Wall Mounting Receptacle (Front Mounting)

盒式与墙式安装插座开孔尺寸

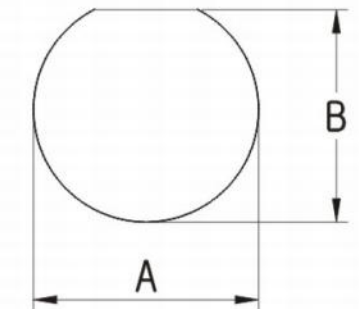


Unit: mm

| Shell Size | A     | B Dia.<br>+0.25<br>-0.00 | C Dia.<br>±0.13 |
|------------|-------|--------------------------|-----------------|
| 8          | 15.09 | 15.70                    | 3.17            |
| 10         | 18.26 | 18.67                    | 3.17            |
| 12         | 20.62 | 21.82                    | 3.17            |
| 14         | 23.01 | 25.02                    | 3.17            |
| 16         | 24.61 | 28.27                    | 3.17            |
| 18         | 26.97 | 31.37                    | 3.17            |
| 20         | 29.36 | 34.57                    | 3.17            |
| 22         | 31.75 | 37.72                    | 3.17            |
| 24         | 34.92 | 40.92                    | 3.94            |

### Jam Nut Receptacle

锁紧螺母插座开孔尺寸



Unit: mm

| Shell Size | A Dia.<br>+0.13<br>-0.00 | B<br>+0.25<br>-0.13 |
|------------|--------------------------|---------------------|
| 8          | 14.68                    | 13.72               |
| 10         | 17.86                    | 16.89               |
| 12         | 22.61                    | 21.03               |
| 14         | 25.78                    | 24.18               |
| 16         | 28.96                    | 27.33               |
| 18         | 32.13                    | 30.51               |
| 20         | 35.31                    | 33.68               |
| 22         | 38.48                    | 36.86               |
| 24         | 41.66                    | 40.03               |

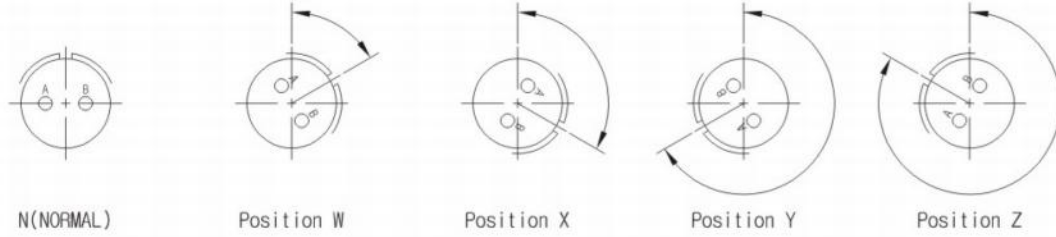


# MIL-C-26482 Series I Style

# (Alternate Insert Positions)

## 防插错表格

### Insert Availability and Identification



View looking into front face of pin insert or rear of socket insert.

| Shell Size | Contact Arrangement | Service Rating | Total Contacts | Contact Size |    |    | Alternate Insert Positions (Degree) |     |     |     |
|------------|---------------------|----------------|----------------|--------------|----|----|-------------------------------------|-----|-----|-----|
|            |                     |                |                | 20           | 16 | 12 | W                                   | X   | Y   | Z   |
| 8          | 8-2                 | I              | 2              | 2            |    |    | 58                                  | 122 |     |     |
|            | 8-3                 | I              | 3              | 3            |    |    | 60                                  | 210 |     |     |
|            | 8-4                 | I              | 4              | 4            |    |    | 45                                  |     |     |     |
|            | 8-33                | I              | 3              | 3            |    |    | 90                                  |     |     |     |
| 10         | 10-6                | I              | 6              | 6            |    |    | 90                                  |     |     |     |
|            | 10-98               | I              | 5              | 5            |    |    | 90                                  | 180 | 240 | 270 |
| 12         | 12-3                | II             | 3              | 3            |    |    |                                     |     | 180 |     |
|            | 12-8                | I              | 8              | 8            |    |    | 90                                  | 112 | 203 | 292 |
|            | 12-10               | I              | 10             | 10           |    |    | 60                                  | 155 | 270 | 295 |
| 14         | 14-5                | II             | 5              |              | 5  |    | 40                                  | 92  | 184 | 273 |
|            | 14-12               | I              | 12             | 8            | 4  |    | 43                                  | 90  |     |     |
|            | 14-15               | I              | 15             | 14           | 1  |    | 17                                  | 110 | 155 | 234 |
|            | 14-18               | I              | 18             | 18           |    |    | 15                                  | 90  | 180 | 270 |
| 16         | 14-19               | I              | 19             | 19           |    |    | 30                                  | 165 | 315 |     |
|            | 16-8                | II             | 8              |              | 8  |    | 54                                  | 152 | 180 | 331 |
|            | 16-23               | I              | 23             | 22           | 1  |    | 158                                 | 270 |     |     |
|            | 16-26               | I              | 26             | 26           |    |    | 60                                  |     | 275 | 338 |
| 18         | 16-99               | I              | 23             | 21           | 2  |    | 66                                  | 156 | 223 | 340 |
|            | 18-11               | II             | 11             |              | 11 |    | 62                                  | 119 | 241 | 340 |
|            | 18-30               | I              | 30             | 29           | 1  |    | 180                                 | 193 | 285 | 350 |
|            | 18-32               | I              | 32             | 32           |    |    | 85                                  | 138 | 222 | 265 |
| 20         | 20-16               | II             | 16             |              | 16 |    | 238                                 | 318 | 333 | 347 |
|            | 20-24               | I              | 24             | 24           |    |    | 70                                  | 145 | 215 | 290 |
|            | 20-27               | I              | 27             | 27           |    |    | 72                                  | 144 | 216 | 288 |
|            | 20-39               | I              | 39             | 37           | 2  |    | 83                                  | 144 | 252 | 333 |
| 22         | 20-41               | I              | 41             | 41           |    |    | 45                                  | 126 | 225 |     |
|            | 22-12               | I              | 12             |              | 12 |    |                                     |     |     |     |
|            | 22-21               | II             | 21             |              | 21 |    | 16                                  | 135 | 175 | 349 |
|            | 22-32               | I              | 32             | 32           |    |    | 72                                  | 145 | 215 | 288 |
|            | 22-34               | I              | 34             | 34           |    |    | 62                                  | 142 | 218 | 298 |
| 24         | 22-41               | I              | 41             | 27           | 14 |    | 39                                  | 135 | 264 | 314 |
|            | 22-55               | I              | 55             | 55           |    |    | 30                                  | 142 | 226 | 314 |
| 24         | 24-61               | I              | 61             | 61           |    |    | 90                                  | 180 | 270 | 324 |

# MIL-DLT-26482 Series I Style 插针排布 (Contact Arrangements)

| Shell Size    | Insert Arrangement | Service Rating | Number of Contacts | Contact Size |
|---------------|--------------------|----------------|--------------------|--------------|
| Shell Size 8  | 8-2                | I              | 2                  | 20           |
|               | 8-3                | I              | 3                  | 20           |
|               | 8-4                | I              | 4                  | 20           |
|               | 8-33               | I              | 3                  | 20           |
| Shell Size 10 | 10-6               | I              | 6                  | 20           |
|               | 10-98              | I              | 6                  | 20           |
| Shell Size 12 | 12-3               | I              | 3                  | 16           |
|               | 12-8               | I              | 8                  | 20           |
|               | 12-10              | I              | 10                 | 20           |
| Shell Size 14 | 14-5               | II             | 5                  | 16           |
|               | 14-12              | I              | 8 4                | 20 16        |
|               | 14-15              | I              | 14 1               | 20 16        |
|               | 14-18              | I              | 18                 | 20           |
|               | 14-19              | I              | 19                 | 20           |
|               | 16-8               | II             | 8                  | 16           |
| Shell Size 16 | 16-23              | I              | 22 1               | 20 16        |
|               | 16-26              | I              | 26                 | 20           |
|               | 16-99              | I              | 21 2               | 20 16        |
|               | 18-11              | II             | 11                 | 16           |
|               | 18-30              | I              | 29 1               | 20 16        |
|               | 18-32              | I              | 32                 | 20           |
| Shell Size 18 | 18-11              | II             | 11                 | 16           |
|               | 18-30              | I              | 29 1               | 20 16        |
|               | 18-32              | I              | 32                 | 20           |
|               | 20-16              | II             | 16                 | 16           |
|               | 20-24              | I              | 24                 | 20           |
| Shell Size 20 | 20-16              | II             | 16                 | 16           |
|               | 20-24              | I              | 24                 | 20           |
|               | 20-27              | I              | 27                 | 20           |
|               | 20-39              | I              | 37 2               | 20 16        |
|               | 20-41              | I              | 41                 | 20           |
| Shell Size 22 | 22-12              | I              | 12                 | 12           |
|               | 22-21              | II             | 21                 | 16           |
|               | 22-32              | I              | 32                 | 20           |
|               | 22-34              | I              | 34                 | 20           |
|               | 22-41              | I              | 27 14              | 20 16        |
| Shell Size 24 | 22-55              | I              | 55                 | 20           |
|               | 24-61              | I              | 61                 | 20           |

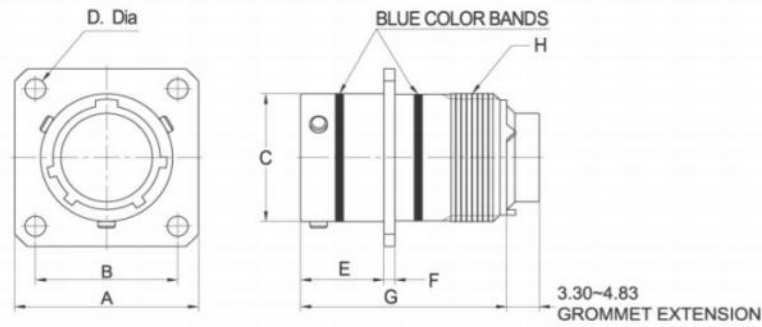
1. View looking into front face of pin insert (+insulator).  
2. Please make a direct inquiry for the information not contained in the table.



# MIL-DTL-26482 Series II Style

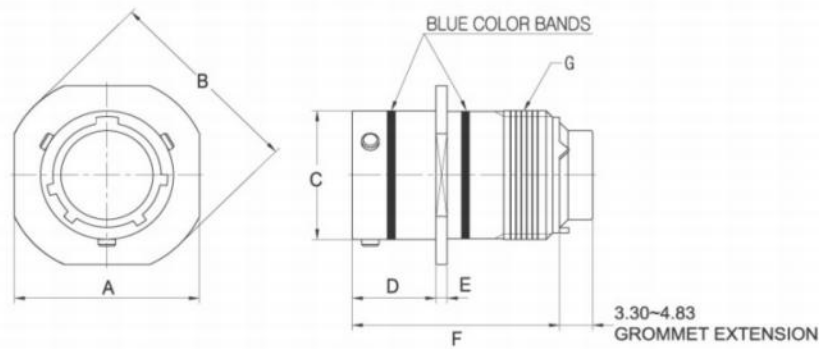
## Connector Dimensions

HW3470  
MS3470  
Narrow Flange Receptacle



| Shell size | □A max | □B ±0.10 | ∅C ±0.08 | ∅D ±0.25 | E     |       | F    |      | G max | H THD-2A      |
|------------|--------|----------|----------|----------|-------|-------|------|------|-------|---------------|
|            |        |          |          |          | min   | max   | min  | max  |       |               |
| 8          | 21.03  | 15.08    | 11.96    | 3.05     | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 1/2-20UNF     |
| 10         | 24.23  | 18.26    | 14.94    | 3.05     | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 5/8-24UNEF    |
| 12         | 26.59  | 20.62    | 19.00    | 3.05     | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 3/4-20UNEF    |
| 14         | 28.98  | 23.01    | 22.17    | 3.05     | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 7/8-20UNEF    |
| 16         | 31.34  | 24.61    | 25.35    | 3.05     | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 1-20UNEF      |
| 18         | 33.73  | 26.97    | 25.52    | 3.05     | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 1 1/16-18UNEF |
| 20         | 36.91  | 29.36    | 31.70    | 3.05     | 14.12 | 14.91 | 1.98 | 2.80 | 32.39 | 1 3/16-18UNEF |
| 22         | 40.08  | 31.75    | 34.87    | 3.05     | 14.12 | 14.91 | 1.98 | 2.80 | 32.39 | 1 5/16-18UNEF |
| 24         | 43.26  | 34.93    | 38.05    | 3.73     | 14.96 | 15.75 | 1.98 | 2.80 | 32.39 | 1 7/16-18UNEF |

HW3471  
MS3471  
Cable Connecting Receptacle

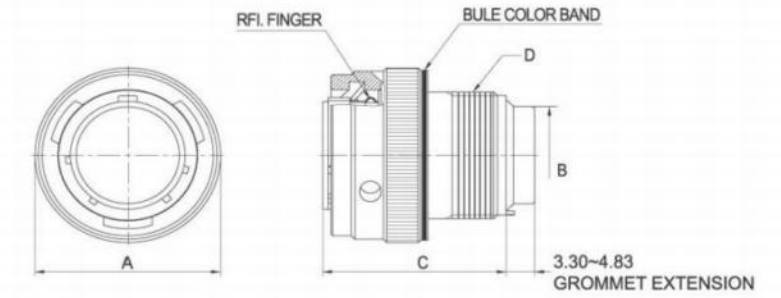


| Shell size | □A max | ∅B    |       | ∅C ±0.08 | D     |       | E    |      | F max | H THD-2A      |
|------------|--------|-------|-------|----------|-------|-------|------|------|-------|---------------|
|            |        | min   | max   |          | min   | max   | min  | max  |       |               |
| 8          | 21.03  | 23.32 | 24.34 | 11.96    | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 1/2-20UNF     |
| 10         | 24.23  | 26.46 | 27.48 | 14.94    | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 5/8-24UNEF    |
| 12         | 26.59  | 28.85 | 29.87 | 19.00    | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 3/4-20UNEF    |
| 14         | 28.98  | 31.24 | 32.26 | 22.17    | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 7/8-20UNEF    |
| 16         | 31.34  | 33.63 | 34.65 | 25.35    | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 1-20UNEF      |
| 18         | 33.73  | 36.02 | 37.04 | 28.52    | 10.95 | 11.74 | 1.16 | 1.98 | 30.86 | 1 1/16-18UNEF |
| 20         | 36.91  | 39.16 | 40.18 | 31.70    | 14.12 | 14.91 | 1.98 | 2.80 | 32.39 | 1 3/16-18UNEF |
| 22         | 40.08  | 42.37 | 43.39 | 34.87    | 14.12 | 14.91 | 1.98 | 2.80 | 32.39 | 1 5/16-18UNEF |
| 24         | 43.26  | 45.51 | 46.53 | 38.05    | 14.96 | 15.75 | 1.98 | 2.80 | 32.39 | 1 7/16-18UNEF |

# MIL-DTL-26482 Series II Style

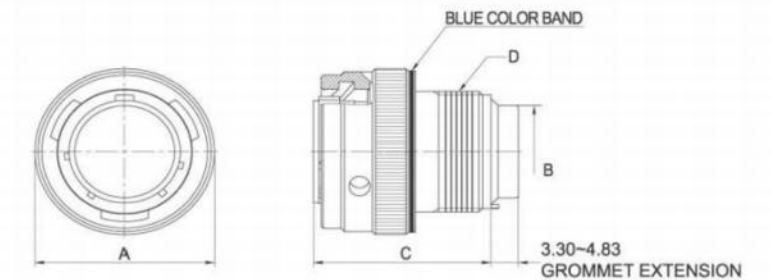
## Connector Dimensions

HW3475  
MS3475  
Straight Plug (RFI Shielded)



| Shell size | ∅A max | ∅B max | C max | D THD-2A      |
|------------|--------|--------|-------|---------------|
| 8          | 19.86  | 7.75   | 31.24 | 1/20-20UNF    |
| 10         | 23.52  | 10.29  | 31.24 | 5/8-24UNEF    |
| 12         | 26.49  | 13.49  | 31.24 | 3/4-20UNEF    |
| 14         | 30.04  | 16.89  | 31.24 | 7/8-20UNEF    |
| 16         | 33.15  | 20.07  | 31.24 | 1-20UNEF      |
| 18         | 35.33  | 22.07  | 31.24 | 1 1/16-18UNEF |
| 20         | 38.89  | 25.25  | 31.24 | 1 3/16-18UNEF |
| 22         | 42.05  | 28.42  | 31.24 | 1 5/16-18UNEF |
| 24         | 45.14  | 31.60  | 31.24 | 1 7/16-18UNEF |

HW3476  
MS3476  
Straight Plug



| Shell size | ∅A max | ∅B max | C max | D THD-2A      |
|------------|--------|--------|-------|---------------|
| 8          | 19.86  | 7.75   | 31.24 | 1/20-20UNF    |
| 10         | 23.52  | 10.29  | 31.24 | 5/8-24UNEF    |
| 12         | 26.49  | 13.49  | 31.24 | 3/4-20UNEF    |
| 14         | 30.04  | 16.89  | 31.24 | 7/8-20UNEF    |
| 16         | 33.15  | 20.07  | 31.24 | 1-20UNEF      |
| 18         | 35.33  | 22.07  | 31.24 | 1 1/16-18UNEF |
| 20         | 38.89  | 25.25  | 31.24 | 1 3/16-18UNEF |
| 22         | 42.05  | 28.42  | 31.24 | 1 5/16-18UNEF |
| 24         | 45.14  | 31.60  | 31.24 | 1 7/16-18UNEF |



## Sealing Plug

| Contact Size | Military No. | Color Code |
|--------------|--------------|------------|
| 20           | MS27488-20   | Red        |
| 16           | MS27488-16   | Blue       |
| 12           | MS27488-12   | Yellow     |

## Insertion / Removal Tools

| Contact Size | Color Code     | Military No. |
|--------------|----------------|--------------|
| 20           | Red / White    | M81969/14-11 |
| 16           | Blue / White   | M81969/14-03 |
| 12           | Yellow / White | M81969/14-04 |

## Contacts

| Contact Size | Wire Range |                 | Contact [Military No.] |              |
|--------------|------------|-----------------|------------------------|--------------|
|              | AWG        | mm <sup>2</sup> | PIN                    | SOCKET       |
| 20           | 20 - 24    | 0.2 - 0.6       | M39029/4-110           | M39029/5-115 |
| 16           | 16 - 20    | 0.5 - 1.4       | M39029/4-111           | M39029/5-116 |
| 12           | 12 - 14    | 2.0 - 3.0       | M39029/4-113           | M39029/5-118 |

## Crimping Tools

| Contact Size | Wire Range |                 | Finished Wire Dia. Range<br>mm <sup>2</sup> | Crimping Tool      | Turner / Positioner |
|--------------|------------|-----------------|---|--------------------|---------------------|
|              | AWG        | mm <sup>2</sup> |   |                    |                     |
| 20           | 20 - 24    | 0.2 - 0.6       | 1.02 - 2.11                                 | M22520/1-01, /2-01 | M22520/1-02, /2-02  |
| 16           | 16 - 20    | 0.5 - 1.4       | 1.34 - 2.62                                 | M22520/1-01        | M22520/1-02         |
| 12           | 12 - 14    | 2.0 - 3.0       | 2.46 - 4.01                                 | M22520/1-01        | M22520/1-02         |

## 概述 (Overview)

HWVG卡口连接器依照VG95234标准制造，实践证明卡口连接方式比螺纹MIL-C-5015系列，更加的简单的装配和拆卸。该系列产品拥有防水，防振动和简单装配和拆卸。产品主要应用于通讯设备、飞机船舶、电动机车等恶劣环境。

The HWVG-Bayonet Connector Series was designed in accordance with the VG95234 specification. The connectors' bayonet coupling method, improved from screw-type MIL-DTL-5015, provide easy mating/unmating. The product was designed to be used for protection from penetration of fluids by vibration and provides easy mating/unmating. It is used as parts and communication devices in aircraft and military vehicles, electric vehicles, and ships.



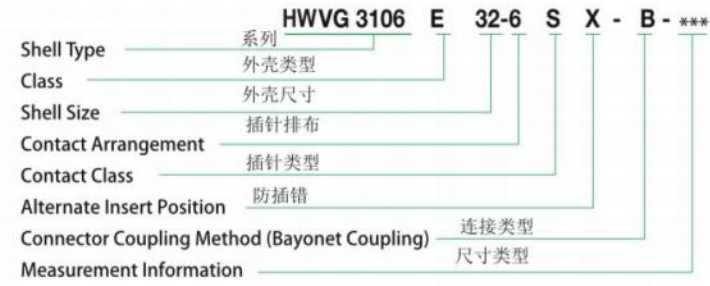


# HWVG Series

VG95234 Style Connector



## 概述 (Ordering Information)



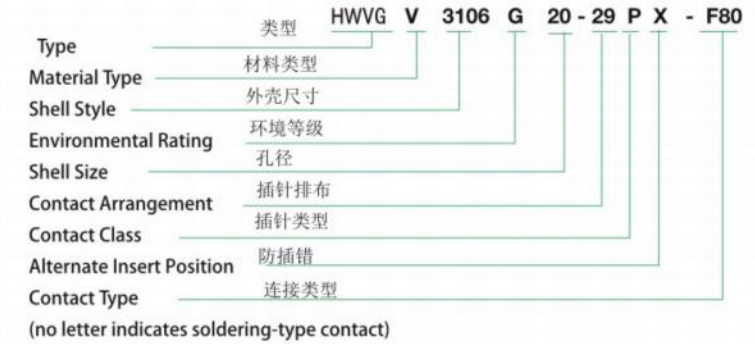
|  |   |
|--|---|
| Shell type   | Connector Coupling Method   |
| VG3100 - Wall Mounting Receptacle<br>墙式安装插座  | Bayonet Coupling 连接方式   |
| VG3101 - Cable Connection Plug<br>电缆连接插座   | Measurement Information   |
| VG3102 - Box Mounting Receptacle<br>盒式安装插座   | 01-Metric clamping contact<br>公制夹紧连接  |
| VG3106 - Plug, Straight<br>直插头   | 02-Uses heat shrink boots in adaptor. AWG clamping contact<br>热缩套管, 美制夹紧连接  |
| TBF - Bulkhead Receptacle<br>隔板式安装插座   | 03-Uses heat shrink boots in adaptor. Metric clamping contact<br>热缩套管, 公制夹紧连接                                     |
| Environmental rating   | 04-Rear Mount. Screw-type hole flange. Metric clamping contact<br>尾部安装, 螺纹孔法兰, 公制夹紧连接                             |
| E - appropriately uses clamp and bushings inflexible rubber insulator and end bell.<br>E -适用尾夹、套管橡胶绝缘体 | 05-Rear Mount. Screw-type hole flange. Soldering type contact (VG3100, VG3102, TBF applied)<br>尾部安装, 螺纹孔法兰, 焊接式连接 |
| Shell size   | 06 - Heat shrink boot adaptor. Screw-type hole flange. Soldering type contact<br>带热缩套管, 螺纹式法兰, 焊接式连接              |
| 10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36   | 08-90° end bell. Screw-type hole flange (VG3100 applied)<br>90° 弯角, 螺纹孔法兰 (适用 VG3100)                             |
| Contact Arrangement  | 09-90° end bell. Through-hole flange (VG3100 applied)<br>90° 弯角, 通孔法兰 (适用 VG3100)                                 |
| Refer to the VG95234 specification and MIL-STD-1651.<br>插针排布   | 13 - shield version. Soldering type contact<br>保护罩种类, 焊接式连接   |
| Contact Class  | 14 - shield version. Metric clamping contact.<br>保护罩种类, 公制夹紧连接  |
| P - Pin Contact<br>插针  | 15 - shield version. AWG clamping contact.<br>保护罩种类, 英制夹紧连接   |
| S - Socket Contact<br>插孔   | 32 - end bell structure for shield system cable. MTV6145-005.<br>屏蔽电缆结构, MTV6145-005                              |
| Alternate Insert Position  | 109-F80. Rear Amount. Screw-type flange (VG3102 applied)<br>压接, 插针后部数量, 螺纹法兰 (适用 VG3102)                          |
| Refer to the VG95234 specification and MIL-STD-1651.<br>防插错表格  | 111- Rear amount. screw-type flange (VG3102 applied). Soldering type contact.<br>插针后部数量, 螺纹连接 (适用 VG3102), 焊接式连接  |
|  | F80-AWG clamping contact<br>压接, 英制夹紧连接  |
|  | A232 - Zinc cobalt plating(black)<br>A232 -锌钴镀层(黑色)   |

# HWVG Series

VG95234 Style Connector



## 概述 (Ordering Information)



|  |   |
|--|---|
| Product Type   | Environmental Rating  |
| VG-General connector 一般连接  | It is based on the accessories and backshell that seal according to each rating.  |
| VGG-EMI Ground Finger type connector<br>接触型连接器   | 根据各服务等级的配件和尾部密封   |
| Material Type  | G - heat shrink boots are used for end bell accessories.<br>includes grommet and bushing. (applicable to 01,00,030,06)<br>带热缩套管的尾附件, 包含金属扣和套管 |
| Blank - Standard(CR) insulator 空白-氯丁橡胶   | AG - excludes grommet and bushing from G rating<br>不包含垫圈和套管   |
| V - Silicon(SR) insulator V-硅胶   | R - other accessories are used for end bell accessories.<br>includes grommet and bushing. (08-90 end bell)<br>一般尾附件, 包含垫片和套管                  |
| Shell Style  | SB - EMI blade and heat shrink boots used.<br>includes grommet and bushing.<br>防电磁干扰和热缩套管, 包含垫片和套管  |
| 01 - In-Line Receptacle<br>电缆连接插座  | SBT - EMI blade, heat shrink ring and heat shrink boots used.<br>includes grommet and bushing.<br>防电磁干扰, 高温扣环和热缩套管, 包含垫片和套管                   |
| 02/00 - Front Panel Mount Receptacle<br>盒式安装插座   | F - includes cable clamp and rubber bushing.<br>包含电缆夹和橡胶套管  |
| 03/030 - Rear Panel Mount Receptacle<br>后面安装插座   | AF - excludes grommet and bushing from F rating<br>不含电缆夹和套管   |
| 06 - Straight Plug<br>直插头  | FP - the panel mounting hole is a through-hole type<br>面板安装带法兰  |
| 07 - Single Hole Mount Jamnut Receptacle,<br>No Rear Thread<br>单孔安装, 前螺母连接, 没有后螺母      | RG - EMI coil ground finger type (applicable to 07, 070)<br>防电磁干扰接地式  |
| 070 - Single Hole Mount Jamnut Receptacle,<br>With Rear Thread<br>单孔安装, 前锁紧螺母安装, 后螺纹连接 | Contact class   |
| 08 - 90° Plug<br>90° 插头  | P - Pin Contact 插针  |
| Shell Size   | S - Socket Contact 插孔   |
| 10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36   | Alternate Insert Position   |
| Contact Arrangement  | Refer to the VG95234 specification and MIL-STD-1651.  |
| Refer to the VG95234 specification and MIL-STD-1651.                                   | Contact Type  |
|  | F80-AWG clamping contact<br>美制插针  |
|  | CR-Metric clamping contact<br>公制插针  |
|  | Blank - soldering contact<br>焊接   |



# HWVG Series

## VG95234 Style Connector

### 技术参数 (Technical Data)

#### Electrical Information

Electrical Information (+20°C)

| Contact Rating |        | Max. Current |
|----------------|--------|--------------|
| Metric         | AWG    | A            |
| 10             | -      | 8            |
| 15/15S         | 16/16S | 22           |
| 25             | 12     | 41           |
| 60/100         | 8      | 74           |
| 160            | 4      | 135          |
| 500            | 0      | 245          |

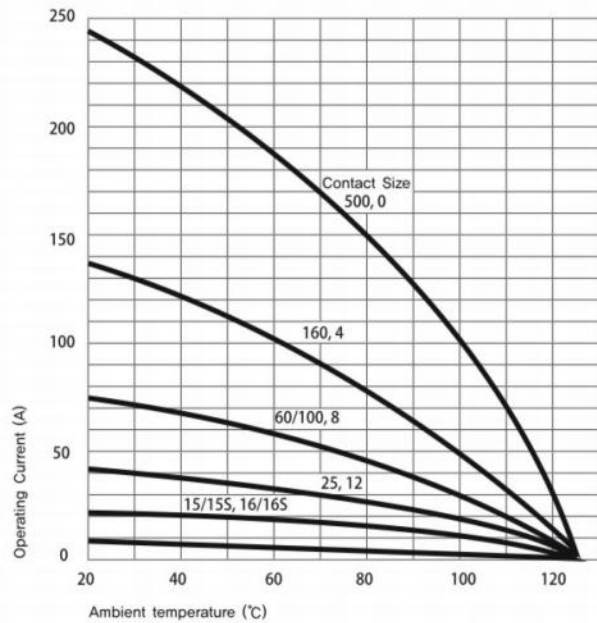
#### Contact Resistance

满足测试VG95319好测试条件VG95210标准  
标准绝缘体>1000MΩ  
硅胶绝缘体>5000MΩ

Required to meet the testing no. 5.12 in Part 2 of VG95319 and testing condition B in Part 32 of VG95210.

Standard(CR) insulator > 1000MΩ  
Silicon(SR) insulator > 5000MΩ

#### Current Rating (according to ambient temperature)



#### Contact Resistance (Milivolt testing)

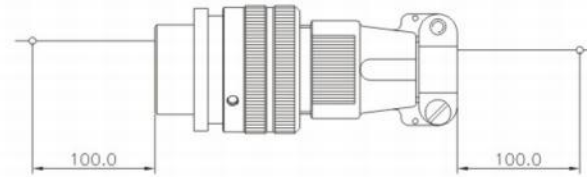
| Voltage testing per service rating |                        |
|------------------------------------|------------------------|
| Service Rating                     | Testing Voltage (Vrms) |
| Instruments                        | 1050                   |
| A                                  | 1600                   |
| B                                  | 4000                   |
| D                                  | 2500                   |
| E                                  | 3000                   |

Required to meet the testing no. 5.13 in Part 2 of VG95319 and Part 31 of VG95210

Air and Creepage Paths(Min.) (UNIT: mm)

| Voltage Rating         | Instr. | A    | D    | E    |
|------------------------|--------|------|------|------|
| Air and Creepage Paths | 0.70   | 1.10 | 2.80 | 4.80 |

#### Contact Resistance (Milivolt testing)



Contact Resistance is tested according to the testing no. 5.10.1 in Part 2 of VG95234 and Part 37 of VG95210. It represents the actually measured point.

| Contact Rating |        | Max. Current |
|----------------|--------|--------------|
| Metric         | AWG    | mΩ           |
| 10             | -      | 12           |
| 15S/15         | 16/16S | 6            |
| 25             | 12     | 3            |
| 60/100         | 8      | 1            |
| 160            | 4      | 0.5          |
| 500            | 0      | 0.2          |

# HWVG Series

## VG95234 Style Connector

### 技术参数 (Technical Data)

#### Mechanical characteristics

Ambient temperature

| Material               | Temperature range |
|------------------------|-------------------|
| Standard(CR) insulator | -55°C ~ +125°C    |
| Silicon(SR) insulator  | -30°C ~ +200°C    |

Vibration testing 20 10~2000Hz

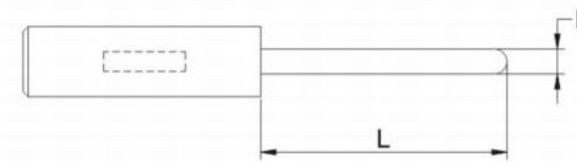
Coupling testing Min. 500 times

#### Contact Separating Force

| Contact Size |        | Separating Force(Min) |        |
|--------------|--------|-----------------------|--------|
| Metric       | AWG    | N                     | Gauge  |
| 10           | -      | 0.30                  | G 0.99 |
| 15S/15       | 16S/16 | 1.00                  | G 1.56 |
| 25           | 12     | 1.50                  | G 2.36 |
| 60/100       | 8      | 3.00                  | G 3.58 |
| 160          | 4      | 4.00                  | G 5.69 |
| 500          | 0      | 8.50                  | G 9.04 |

Separating force needs to be measured accurately according to the testing no. 5.7 in Part 2 of VG95319. A testing gauge is used.

#### Gauge (VG95234, Part 1)



| Gauge  | D              | L              |
|--------|----------------|----------------|
|        | +0.01<br>-0.00 | +0.00<br>-1.00 |
| G 0.99 | 0.99           | 7.00           |
| G 1.56 | 1.56           | 9.00           |
| G 2.36 | 2.36           | 12.00          |
| G 3.58 | 3.58           | 13.00          |
| G 5.69 | 5.69           | 13.00          |
| G 9.04 | 9.04           | 13.00          |

#### Coupling Torque

| Shell Size | Approved Coupling Torque         |                     |
|------------|----------------------------------|---------------------|
|            | Locking and unlocking<br>Nm Max. | unlocking<br>Nm Min |
| 10SL       | 1.70                             | 0.15                |
| 14S        | 3.60                             | 0.35                |
| 16S/16     | 5.50                             | 0.46                |
| 18         | 8.00                             | 0.58                |
| 20         | 9.00                             | 0.70                |
| 22         | 11.00                            | 0.80                |
| 24         | 14.00                            | 0.80                |
| 28         | 17.00                            | 0.92                |
| 32         | 19.00                            | 1.03                |
| 36         | 23.00                            | 1.03                |

Coupling torque is tested according to the testing no. 5.8.2 in Part 2 of VG95319.

#### Contact Retention Force

| Contact Size |        | Testing power |
|--------------|--------|---------------|
| Metric       | AWG    | N             |
| 10           | -      | 30            |
| 15S/15       | 16S/16 | 35            |
| 25           | 12     | 55            |
| 60/100       | 8      | 80            |
| 160          | 4      | 90            |
| 500          | 0      | 95            |

Contact Retention Testing must meet the testing no. 5.4 in Part 2 of VG95319. Testing power direction = locking direction.

#### Material and protection coating

|                               |   |
|-------------------------------|---|
| Body                          | aluminum alloy  |
| Standard protection coating   | cadmium plating(viridescent color) on top                             |
| Substitute protection coating | Zinc cobalt plating(black)  |
| Insulator and grommet         | Chloroprene Rubber(standard)<br>Silicone Rubber(for high temperature) |
| Contact                       | Copper alloy  |
| Protection coating            | Hard silver plating   |

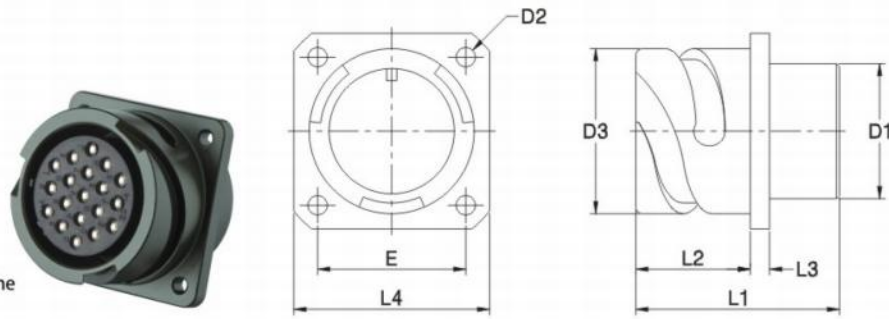


# HWVG Series(VG95234)

## Box Mounting Receptacle 盒式安装插座

### VG95234 Style A

尺寸测量信息:  
VG3102E-B和(-04, -109, -111)系列  
后部方形法兰安装  
面板(法兰固定在面板前)  
面板安装是螺纹式  
Refer to the measurement information following  
VG3102E-B and options. Square flange type and  
mounted in front of the panel (panel is positioned at the  
back of angle). Panel mounting hole is a hole type.



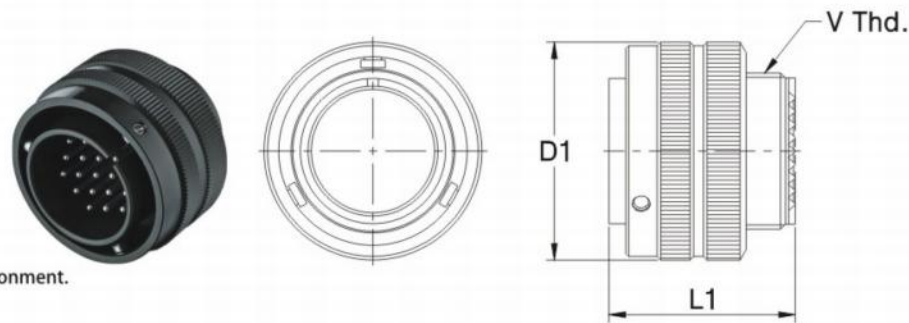
UNIT: mm

| Part Number            | D1<br>Max. | D2<br>H13 | D3<br>+0.00<br>-0.15 | E<br>±0.1 | L1<br>±0.3 | L2<br>+0.4<br>-0.0 | L3<br>±0.2 | L4<br>±0.3 |
|------------------------|------------|-----------|----------------------|-----------|------------|--------------------|------------|------------|
| HWVG3102E10SL-**-B-*** | 16.2       | 3.2       | 18.20                | 18.2      | 24.7       | 14.2               | 2.8        | 25.4       |
| HWVG3102E125-**-B-***  | 16.2       | 3.2       | 21.40                | 20.6      | 24.7       | 14.2               | 3.2        | 28.0       |
| HWVG3102E145-**-B-***  | 19.2       | 3.2       | 24.60                | 23.0      | 24.7       | 14.2               | 3.2        | 30.0       |
| HWVG3102E165-**-B-***  | 22.4       | 3.2       | 27.40                | 24.6      | 24.7       | 14.2               | 3.2        | 32.5       |
| HWVG3102E16-**-B-***   | 22.4       | 3.2       | 27.40                | 24.6      | 33.8       | 19.0               | 3.2        | 32.5       |
| HWVG3102E18-**-B-***   | 25.6       | 3.2       | 30.80                | 27.0      | 33.8       | 19.0               | 4.0        | 35.0       |
| HWVG3102E20-**-B-***   | 29.0       | 3.2       | 34.20                | 29.4      | 33.8       | 19.0               | 4.0        | 38.4       |
| HWVG3102E22-**-B-***   | 32.0       | 3.2       | 37.40                | 31.8      | 33.8       | 19.0               | 4.0        | 41.0       |
| HWVG3102E24-**-B-***   | 35.3       | 3.7       | 40.90                | 34.9      | 33.8       | 20.6               | 4.0        | 44.5       |
| HWVG3102E28-**-B-***   | 41.4       | 3.7       | 46.70                | 39.7      | 33.8       | 20.6               | 4.0        | 50.8       |
| HWVG3102E32-**-B-***   | 47.8       | 4.3       | 53.40                | 44.5      | 33.8       | 22.2               | 4.0        | 57.0       |
| HWVG3102E36-**-B-***   | 52.6       | 4.3       | 59.60                | 49.2      | 33.8       | 22.2               | 4.0        | 63.5       |

## Straight Plug 直插头

尺寸测量信息:  
VG06系列  
直插头。没有配件  
可以使用不同环境的配件

Refer to the measurement information following  
VG06 and options.  
VGG06 - EMI finger type plug.  
A plug connector and with no accessories.  
Can use separate accessories suitable for the environment.



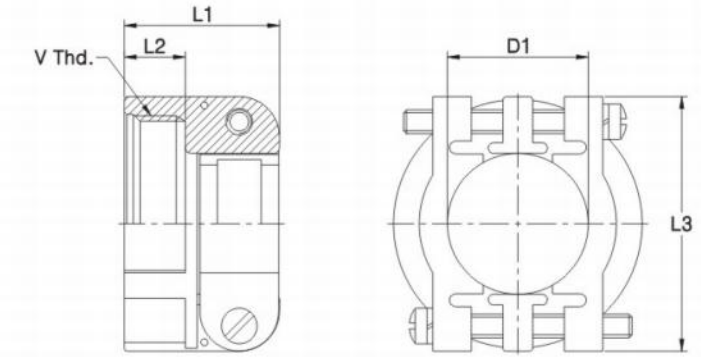
UNIT: mm

| Part Number           | D1<br>Max. | L1<br>±0.3 | V Thread.<br>(Class : 2A) |
|-----------------------|------------|------------|---------------------------|
| HWVG*06-10SL-**-B-*** | 22.8       | 24.6       | 5/8-24UNEF                |
| HWVG*06-145-**-B-***  | 29.2       | 24.6       | 3/4-20UNEF                |
| HWVG*06-165-**-B-***  | 33.0       | 24.6       | 7/8-20UNEF                |
| HWVG*06-16-**-B-***   | 33.0       | 34.1       | 7/8-20UNEF                |
| HWVG*06-18-**-B-***   | 36.5       | 34.1       | 1-20UNEF                  |
| HWVG*06-20-**-B-***   | 39.9       | 34.1       | 1 1/8-18UNEF              |
| HWVG*06-22-**-B-***   | 43.1       | 34.1       | 1 1/4-18UNEF              |
| HWVG*06-24-**-B-***   | 46.6       | 35.7       | 1 3/8-18UNEF              |
| HWVG*06-28-**-B-***   | 53.4       | 35.7       | 1 5/8-18UNEF              |
| HWVG*06-32-**-B-***   | 60.1       | 37.3       | 1 7/8-16UN                |
| HWVG*06-36-**-B-***   | 66.3       | 37.3       | 2 1/16-16UN               |

# Accessories

## Cable Clamps 尾夹

### VG95234 Style KK



UNIT: mm

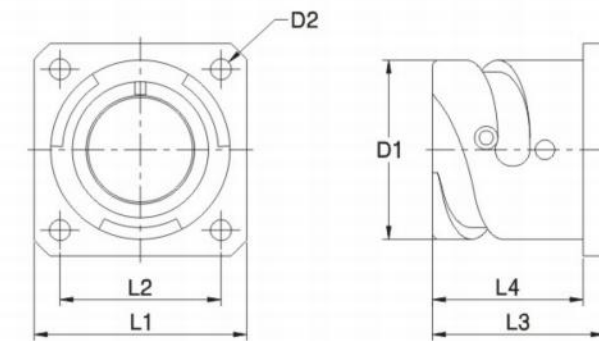
| Shell size | Part Number   | D1<br>Max. | L1<br>Max. | L2<br>Max. | L3<br>Max. | V Thread.<br>(Class : 2B) |
|------------|---------------|------------|------------|------------|------------|---------------------------|
| 105L       | HWVG 3057-4A  | 7.9        | 20.8       | 10.5       | 22.5       | 5/8-24UNEF                |
| 145        | HWVG 3057-6A  | 11.1       | 22.4       | 10.5       | 27.4       | 3/4-20UNEF                |
| 165 & 16   | HWVG 3057-8A  | 14.2       | 24.0       | 10.5       | 29.8       | 7/8-20UNEF                |
| 18         | HWVG 3057-10A | 15.8       | 24.0       | 10.5       | 32.2       | 1-20UNEF                  |
| 20 & 22    | HWVG 3057-12A | 19.0       | 24.0       | 10.5       | 37.4       | 1 3/16-18UNEF             |
| 24 & 28    | HWVG 3057-16A | 23.7       | 26.4       | 10.5       | 43.5       | 1 7/16-18UNEF             |
| 32         | HWVG 3057-20A | 31.8       | 28.0       | 12.0       | 51.7       | 1 3/4-18UNS               |
| 36         | HWVG 3057-24A | 34.6       | 29.6       | 13.7       | 57.8       | 2-18UNS                   |

## Dummy Receptacle 虚拟母座

### VG95234 Style BOD

安装在面板的前面。  
面板安装孔孔。

Installed in front of the panel.  
Panel mounting hole is a through-hole.



UNIT: mm

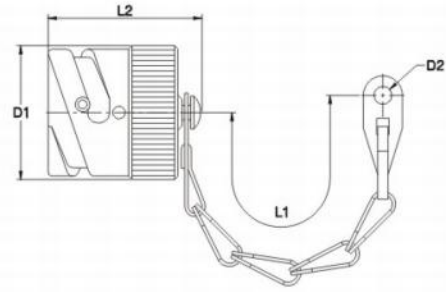
| Shell size | Part Number      | D1<br>+0.00<br>-0.15 | D2<br>±0.2 | L1<br>±0.3 | L2<br>±0.1 | L3<br>Max. | L4<br>+0.3<br>-0.0 |
|------------|------------------|----------------------|------------|------------|------------|------------|--------------------|
| 105L       | HWVG 3105E10SL.B | 18.20                | 3.2        | 25.4       | 18.2       | 17.5       | 14.2               |
| 145        | HWVG 3105E145-B  | 24.60                | 3.2        | 30.0       | 23.0       | 18.0       | 14.2               |
| 165        | HWVG 3105E165-B  | 27.40                | 3.2        | 32.5       | 24.6       | 18.0       | 14.2               |
| 16         | HWVG 3105E16-B   | 27.40                | 3.2        | 32.5       | 24.6       | 23.5       | 19.0               |
| 18         | HWVG 3105E18-B   | 30.80                | 3.2        | 35.0       | 27.0       | 23.5       | 19.0               |
| 20         | HWVG 3105E20-B   | 34.20                | 3.2        | 38.0       | 29.4       | 23.5       | 19.0               |
| 22         | HWVG 3105E22-B   | 37.40                | 3.2        | 41.0       | 31.8       | 23.5       | 19.0               |
| 24         | HWVG 3105E24-B   | 40.90                | 3.7        | 44.5       | 34.9       | 25.5       | 20.6               |
| 28         | HWVG 3105E28-B   | 46.70                | 3.7        | 50.8       | 39.7       | 25.5       | 20.6               |
| 32         | HWVG 3105E32-B   | 53.40                | 4.3        | 57.0       | 44.5       | 27.0       | 22.2               |
| 36         | HWVG 3105E36-B   | 59.60                | 4.3        | 63.5       | 49.2       | 27.0       | 22.2               |



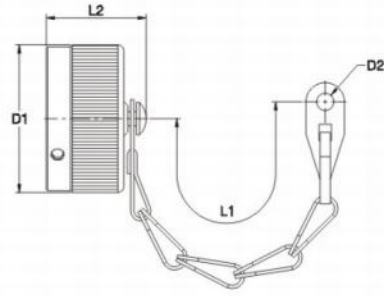
## Accessories

### Metal Dust Caps With Chain 带链金属防尘盖

#### VG95234KB Style



#### VG95234KR Style



UNIT: mm

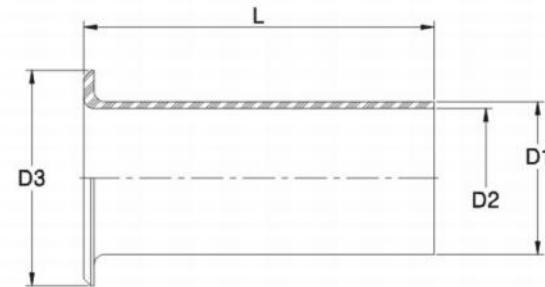
| Part Number     | D1<br>Max. | D2<br>+0.5<br>-0.2 | L1    | L2<br>Max. |
|-----------------|------------|--------------------|-------|------------|
| HWVG95234KB10SL | 21.0       | 4.3                | 90.0  | 29.0       |
| HWVG95234KB14S  | 27.5       | 4.3                | 100.0 | 29.0       |
| HWVG95234KB16S  | 30.0       | 4.3                | 100.0 | 29.0       |
| HWVG95234KB16   | 30.0       | 4.3                | 115.0 | 37.0       |
| HWVG95234KB18   | 33.5       | 4.3                | 115.0 | 37.0       |
| HWVG95234KB20   | 37.5       | 4.7                | 130.0 | 37.0       |
| HWVG95234KB22   | 40.0       | 4.7                | 130.0 | 37.0       |
| HWVG95234KB24   | 43.5       | 4.7                | 130.0 | 37.0       |
| HWVG95234KB28   | 49.5       | 4.7                | 190.0 | 37.0       |
| HWVG95234KB32   | 56.0       | 5.5                | 190.0 | 37.0       |
| HWVG95234KB36   | 62.5       | 5.5                | 190.0 | 37.0       |

| Part Number     | D1<br>Max. | D2<br>+0.5<br>-0.2 | L1    | L2<br>Max. |
|-----------------|------------|--------------------|-------|------------|
| HWVG95234KB10SL | 23.5       | 4.3                | 90.0  | 20.0       |
| HWVG95234KB14S  | 30.5       | 4.3                | 90.0  | 20.0       |
| HWVG95234KB16S  | 33.0       | 4.3                | 90.0  | 20.0       |
| HWVG95234KB16   | 33.0       | 4.3                | 100.0 | 25.0       |
| HWVG95234KB18   | 37.5       | 4.3                | 100.0 | 25.0       |
| HWVG95234KB20   | 41.0       | 4.3                | 115.0 | 25.0       |
| HWVG95234KB22   | 44.0       | 4.3                | 115.0 | 25.0       |
| HWVG95234KB24   | 47.5       | 4.3                | 115.0 | 25.0       |
| HWVG95234KB28   | 54.5       | 5.5                | 160.0 | 25.0       |
| HWVG95234KB32   | 61.0       | 5.5                | 160.0 | 25.0       |
| HWVG95234KB36   | 67.5       | 5.5                | 160.0 | 25.0       |

### Rubber Bushing 套管

使用MS3057电缆夹。

used with LMS3057 cable clamp.



UNIT: mm

| Part Number | D1   | D2    | D3   | L    |
|-------------|------|-------|------|------|
| HWVG3420-4  | 7.7  | 5.58  | 12.8 | 69.8 |
| HWVG3420-6  | 10.8 | 7.92  | 15.7 | 66.8 |
| HWVG3420-8  | 14.0 | 11.09 | 18.8 | 63.5 |
| HWVG3420-10 | 15.6 | 14.27 | 22.6 | 60.3 |
| HWVG3420-12 | 18.8 | 15.87 | 27.5 | 57.1 |
| HWVG3420-16 | 23.5 | 19.05 | 33.3 | 53.9 |
| HWVG3420-20 | 31.5 | 23.79 | 40.5 | 50.8 |
| HWVG3420-24 | 34.7 | 31.75 | 46.9 | 47.6 |

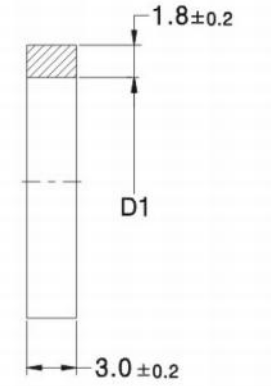
| Part Number      | D1   | D2   | D3   | L    |
|------------------|------|------|------|------|
| HWVG95234KT10SL  | 8.0  | 6.6  | 10.0 | 70.0 |
| HWVG95234KT14S   | 10.9 | 9.1  | 12.7 | 67.0 |
| HWVG95234KT24&28 | 23.6 | 21.5 | 33.3 | 54.0 |
| HWVG95234KT32    | 31.5 | 26.8 | 40.4 | 51.0 |

## Accessories

### Angular O-Ring for sealing O型密封圈

插头

For plugs



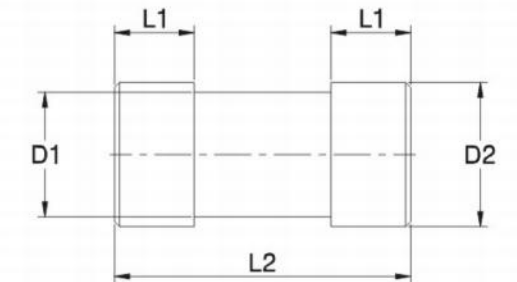
UNIT: mm

| Size | D1   |
|------|------|
| 10SL | 9.0  |
| 14S  | 14.0 |
| 16S  | 17.0 |
| 16   | 17.0 |
| 18   | 19.5 |
| 20   | 22.5 |
| 22   | 25.4 |
| 24   | 28.5 |
| 28   | 34.0 |
| 32   | 40.0 |
| 36   | 45.0 |

### Sealing plug 橡胶套管

用于尾夹的套管

Used for sealing holes that are not connected with wires at the back of connector.



UNIT: mm

| Size | Part Number  | Contact size |        | D1<br>±0.1 | D2<br>±0.2 | L1<br>±0.1 | L2<br>±0.3 | Color  |
|------|--------------|--------------|--------|------------|------------|------------|------------|--------|
|      |              | Metric       | AWG    |            |            |            |            |        |
| 20   | HWVG95234B20 | 10           | -      | 2.3        | 3.0        | 2.4        | 9.7        | Red    |
| 16   | HWVG95234B16 | 15S/15       | 16S/16 | 2.8        | 3.7        | 3.2        | 11.9       | Blue   |
| 12   | HWVG95234B12 | 25           | 12     | 3.7        | 4.6        | 3.2        | 11.9       | Yellow |
| 8    | HWVG95234B08 | 60/100       | 8      | 5.0        | 5.8        | 3.2        | 11.9       | White  |
| 4    | HWVG95234B04 | 160          | 4      | 7.6        | 8.5        | 3.2        | 11.9       | Green  |
| 0    | HWVG95234B00 | 500          | 0      | 12.8       | 13.5       | 3.2        | 11.9       | Black  |



# Information about Insulator Contact Arrangement 插针排布表格

| Contact Arrangement | VG. Contact Arrangement | Service Rating | Total No. of Contact | Contact Size |       |       |   |   |        |    |     |     |     | Alternate Insert Position |     |     |   |     |
|---------------------|-------------------------|----------------|----------------------|--------------|-------|-------|---|---|--------|----|-----|-----|-----|---------------------------|-----|-----|---|-----|
|                     |                         |                |                      | Metric/AWG   |       |       |   |   | Metric |    |     |     |     | W                         | X   | Y   | Z |     |
|                     |                         |                |                      | 15S/16S      | 15/16 | 25/12 | 8 | 4 | 0      | 60 | 100 | 160 | 500 |                           |     |     |   |     |
| 10SL-3              | 10SL-3                  | A              | 3                    | 3            |       |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 10SL-4              | 10SL-4                  | A              | 2                    | 2            |       |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 14S-1               |                         | A              | 3                    | 3            |       |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 14S-5               |                         | I              | 5                    | 5            |       |       |   |   |        |    |     |     | 110 |                           |     |     |   |     |
| 14S-6               | 14S-6                   | I              | 6                    | 6            |       |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 14S-12              |                         | A              | 3                    | 3            |       |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 16S-1               | 16S-1                   | A              | 7                    | 7            |       |       |   |   |        |    |     |     | 80  |                           |     |     |   | 280 |
| 16-10               | 16-10                   | A              | 3                    |              | 3     |       |   |   |        |    |     |     | 90  | 180                       | 270 |     |   |     |
| 16-11               |                         | A              | 2                    |              | 2     |       |   |   |        |    |     |     | 35  | 110                       | 250 | 325 |   |     |
| 16-12               | 16-12                   | A              | 1                    |              |       |       |   | 1 |        |    | 1   |     |     |                           |     |     |   |     |
| 18-1                | 18-1                    | A,I            | 10                   |              | 10    |       |   |   |        |    |     |     | 70  | 145                       |     |     |   | 290 |
| 18-5                |                         | D              | 3                    |              | 1     | 2     |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 18-8                |                         | A              | 8                    |              | 7     | 1     |   |   |        |    |     |     | 70  |                           |     |     |   | 290 |
| 18-10               |                         | A              | 4                    |              | 4     |       |   |   |        |    |     |     |     | 120                       | 240 |     |   |     |
| 18-11               | 18-11                   | A              | 5                    |              | 5     |       |   |   |        |    |     |     |     | 170                       | 265 |     |   |     |
| 18-12               |                         | A              | 6                    |              | 6     |       |   |   |        |    |     |     | 80  |                           |     |     |   | 280 |
| 18-19               |                         | A              | 10                   |              | 10    |       |   |   |        |    |     |     |     | 120                       | 240 |     |   |     |
| 18-21               |                         | A              | 3                    |              | 3     |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 20-2                | 20-2                    | D              | 1                    |              |       |       |   | 1 |        |    |     | 1   |     |                           |     |     |   |     |
| 20-3                |                         | D              | 3                    |              | 3     |       |   |   |        |    |     |     | 70  | 145                       | 215 | 290 |   |     |
| 20A9                | 20A9                    | D,I            | 9                    |              | 9     |       |   |   |        |    |     |     |     | 110                       | 250 |     |   |     |
| 20-11               |                         | I              | 13                   |              | 13    |       |   |   |        |    |     |     |     |                           |     |     |   |     |
| 20-19               |                         | A              | 3                    |              |       | 3     |   |   |        |    |     |     | 90  | 180                       | 270 |     |   |     |
| 20-22               |                         | A              | 6                    |              | 3     | 3     |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 20-23               |                         | A              | 2                    |              |       | 2     |   |   |        |    |     |     | 35  | 110                       | 250 | 325 |   |     |
| 20-29               |                         | A              | 17                   |              | 17    |       |   |   |        |    |     |     | 80  |                           |     |     |   | 280 |
| 20A48               | 20A48                   | I              | 19                   |              | 19    |       |   |   |        |    |     |     |     | 80                        | 280 |     |   |     |
| 22-2                | 22-2                    | D              | 3                    |              |       | 3     |   |   |        |    |     |     | 70  | 145                       | 215 | 290 |   |     |
| 22-12               | 22-12                   | D              | 5                    |              | 3     | 2     |   |   |        | 2  |     |     | 80  | 110                       | 250 | 280 |   |     |
| 22-14               | 22-14                   | A              | 19                   |              | 19    |       |   |   |        |    |     |     | 80  |                           |     |     |   | 280 |
| 22-21               |                         | A              | 3                    |              | 2     |       |   | 1 |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 22-22               | 22-22                   | A              | 4                    |              |       | 4     |   |   |        | 4  |     |     |     | 110                       | 250 |     |   |     |
| 22-23               |                         | A,D            | 8                    |              | 8     |       |   |   |        |    |     |     | 35  |                           | 250 |     |   |     |
| 24-9                |                         | A              | 2                    |              |       |       |   | 2 |        |    |     |     | 35  | 110                       | 250 | 325 |   |     |
| 24-10               | 24-10                   | A              | 7                    |              |       | 7     |   |   |        | 7  |     |     | 80  |                           |     |     |   | 280 |
| 24-11               | 24-11                   | A              | 9                    |              | 6     | 3     |   |   |        | 3  |     |     | 35  | 110                       | 250 | 325 |   |     |
| 24-12               | 24-12                   | A              | 5                    |              | 3     | 2     |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 24-20               |                         | D              | 11                   |              | 9     | 2     |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 24-22               |                         | D              | 4                    |              |       | 4     |   |   |        |    |     |     | 45  | 110                       | 250 |     |   |     |
| 24-28               |                         | I              | 24                   |              | 24    |       |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 24-67               |                         | A              | 19                   |              | 19    |       |   |   |        |    |     |     | 80  |                           |     |     |   | 335 |
| 24A28               |                         | I              | 28                   |              | 28    |       |   |   |        |    |     |     |     | 65                        | 146 | 235 |   |     |
| 28-5                |                         | D              | 5                    |              | 2     | 1     |   | 2 |        |    |     |     | 35  | 110                       | 250 | 325 |   |     |
| 28-6                |                         | D              | 3                    |              |       |       |   | 3 |        |    |     |     | 70  | 145                       | 215 | 290 |   |     |
| 28-9                |                         | D              | 12                   |              | 6     | 6     |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 28-10               |                         | A,D            | 7                    |              | 3     | 2     | 2 |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 28-11               | 28-11                   | A              | 22                   |              | 18    | 4     |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 28-15               |                         | A              | 35                   |              | 35    |       |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 28-21               | 28-21                   | A              | 37                   |              | 37    |       |   |   |        |    |     |     | 80  | 110                       | 250 | 280 |   |     |
| 28-22               |                         | D              | 6                    |              | 3     |       |   | 3 |        |    |     |     | 70  | 145                       | 215 | 290 |   |     |
| 28A16               |                         | A,I            | 9                    |              | 5     |       |   | 4 |        |    |     |     |     |                           |     |     |   |     |
| 32-1                | 32-1                    | E,D            | 5                    |              | 3     |       |   | 2 |        |    |     | 2   | 80  | 110                       | 250 | 280 |   |     |
| 32-5                |                         | D              | 2                    |              |       |       |   | 2 |        |    |     |     | 35  | 110                       | 250 | 325 |   |     |
| 32-7                | 32-7                    | A,I            | 35                   |              | 28    | 7     |   |   |        |    |     |     | 80  | 125                       | 235 | 280 |   |     |
| 32-15               |                         | D              | 8                    |              | 6     |       |   | 2 |        |    |     |     | 35  | 110                       | 250 | 325 |   |     |
| 32-17               |                         | D              | 4                    |              |       |       |   | 4 |        |    |     |     | 45  | 110                       | 250 |     |   |     |
| 32A-5               |                         | A              | 5                    |              |       |       |   | 5 |        |    |     |     | 90  | 180                       | 270 |     |   |     |
| 32A-22              |                         | A              | 22                   |              | 20    |       |   | 2 |        |    |     |     | 55  | 135                       | 230 | 295 |   |     |
| 36-3                |                         | D              | 6                    |              | 3     |       |   | 3 |        |    |     |     | 70  | 145                       | 215 | 290 |   |     |
| 36-5                | 36-5                    | A              | 4                    |              |       |       |   | 4 |        |    |     | 4   | 120 | 240                       |     |     |   |     |
| 36-6                | 36-6                    | A              | 6                    |              |       |       |   | 4 | 2      |    |     |     | 35  | 110                       | 250 | 325 |   |     |

The above arrangement has been developed by the Company for VG95234 specification and MIL-STD-1651 arrangement.  
 \* For other necessary arrangement than the above arrangement, refer to the MIL-STD-1651 arrangement and contact the Company for development of other arrangements.

# VG95234 插针排布 (Contact Arrangements)

### Shell Size 10

10SL-3 #16 A  
10SL-4 #16 A

### Shell Size 14

14S-1 #16 A  
14S-5 #16 instr.  
14S-6 #16 instr.  
14S-12 #16 A

### Shell Size 16

16S-1 #16 A  
16-10 #12 A

### Shell Size 16

16-11 #12 A  
16-12 #4 A

### Shell Size 18

18-1 #16 A  
18-5 #12-2, #16-1 D  
18-8 #12-1, #16-7 A  
18-10 #12 A  
18-11 #12 A  
(B,C,F,G) instr. (all others)

### Shell Size 18

18-12 #16 A  
18-19 #16 A  
18-21 #12 A

### Shell Size 20

20-2 #0 D  
20-3 #12 D  
20A9 #12 D(J) instr. (all others)

### Shell Size 20

20-11 #16 instr.  
20-19 #8 A  
20-22 #8-3, #16-3 A  
20-23 #8 A  
20-29 #17 #16 A  
20A48 #19 #16 instr.

### Shell Size 22

22-2 #8 D  
22-12 #8-2, #16-3 D  
22-14 #19 #16 A  
22-21 #0-1, #16-2 A  
22-22 #4 #8 A

### Shell Size 22

22-23 #8 #12 D(H) A (all others)

### Shell Size 24

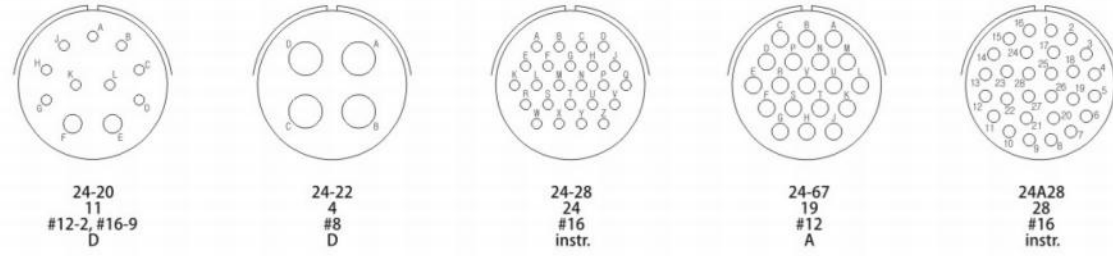
24-9 #2 #4 A  
24-10 #7 #8 A  
24-11 #8-3, #12-6 A  
24-12 #4-2, #12-3 A

1. viewed from the front of Pin insert (+ insulator)  
 2. Contact the Company for other information not contained in the above figure.

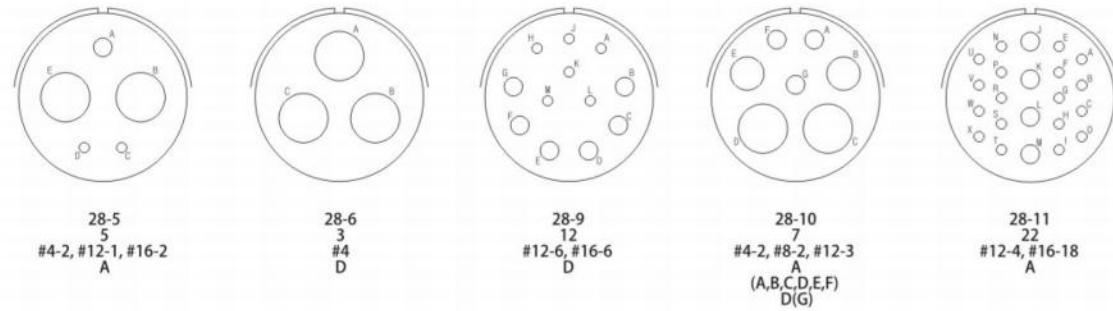


## VG95234 插针排布 (Contact Arrangements)

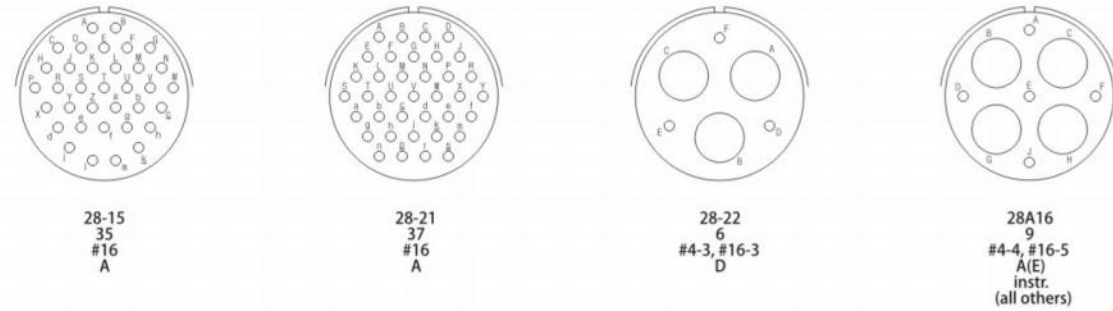
### Shell Size 24



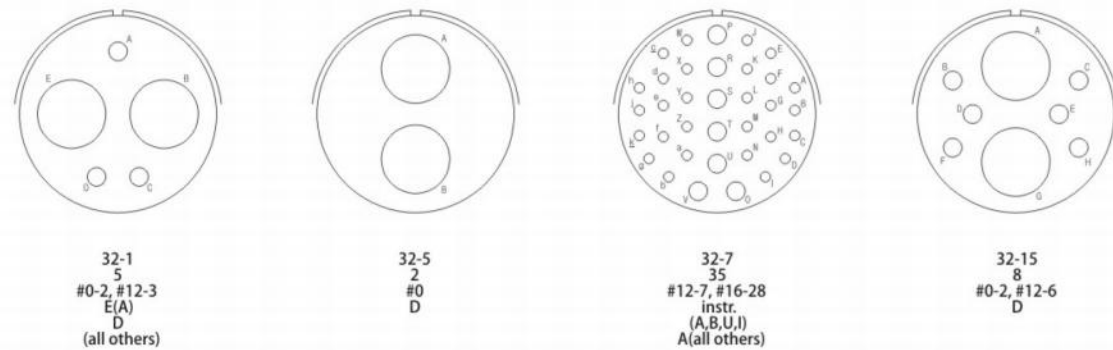
### Shell Size 28



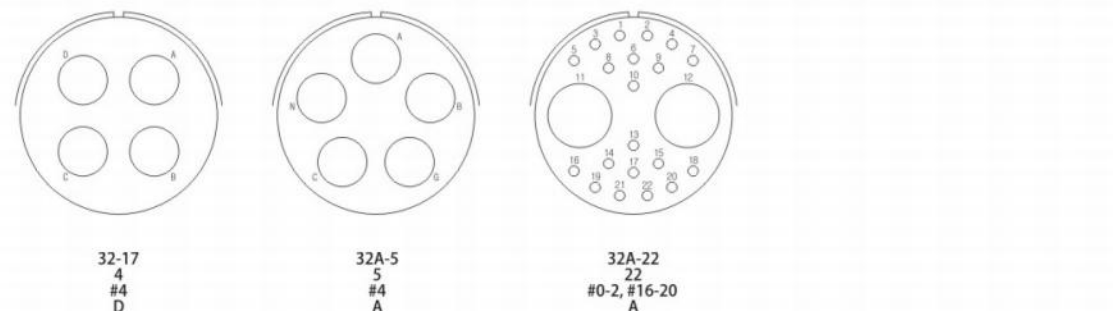
### Shell Size 28



### Shell Size 32



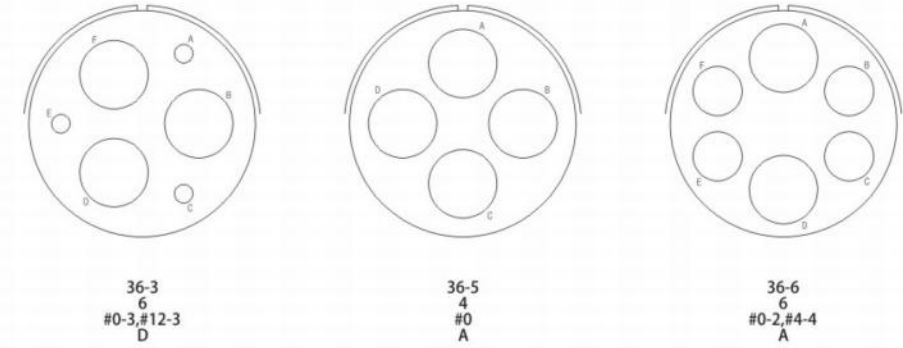
### Shell Size 32



1. viewed from the front of Pin insert (+ insulator)  
2. Contact the Company for other information not contained in the above figure.

## VG95234 插针排布 (Contact Arrangements)

### Shell Size 36



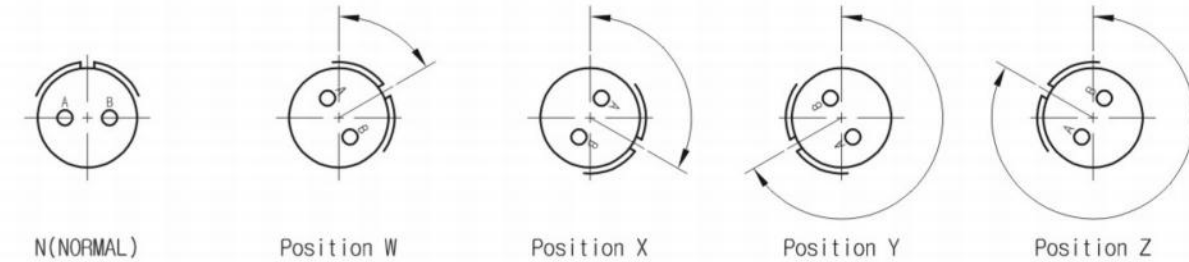
Insert Arrangement  
Number of Contacts  
Contact Size  
Service Rating

1. viewed from the front of Pin insert (+ insulator)  
2. Contact the Company for other information not contained in the above figure.

## 防插错 (Alternate Insert Positions)

不同的旋转锁头，W, X, Y, Z。没有字母绝缘体，锁头位于中心线。  
VG95234和MIL-STD-1651绝缘体装置和旋转角度  
如有替他要求，请联系

It rotates following the key rotation letters W, X, Y, and Z. If there is no letter or the letter is N, insulator key hole is located at the center line.  
Insulator arrangement and rotation position of the connector follows VG95234 specification and MIL-STD-1651.  
Contact the Company for other possible arrangement that can be developed.



View looking into front face of pin insert or rear of socket insert.