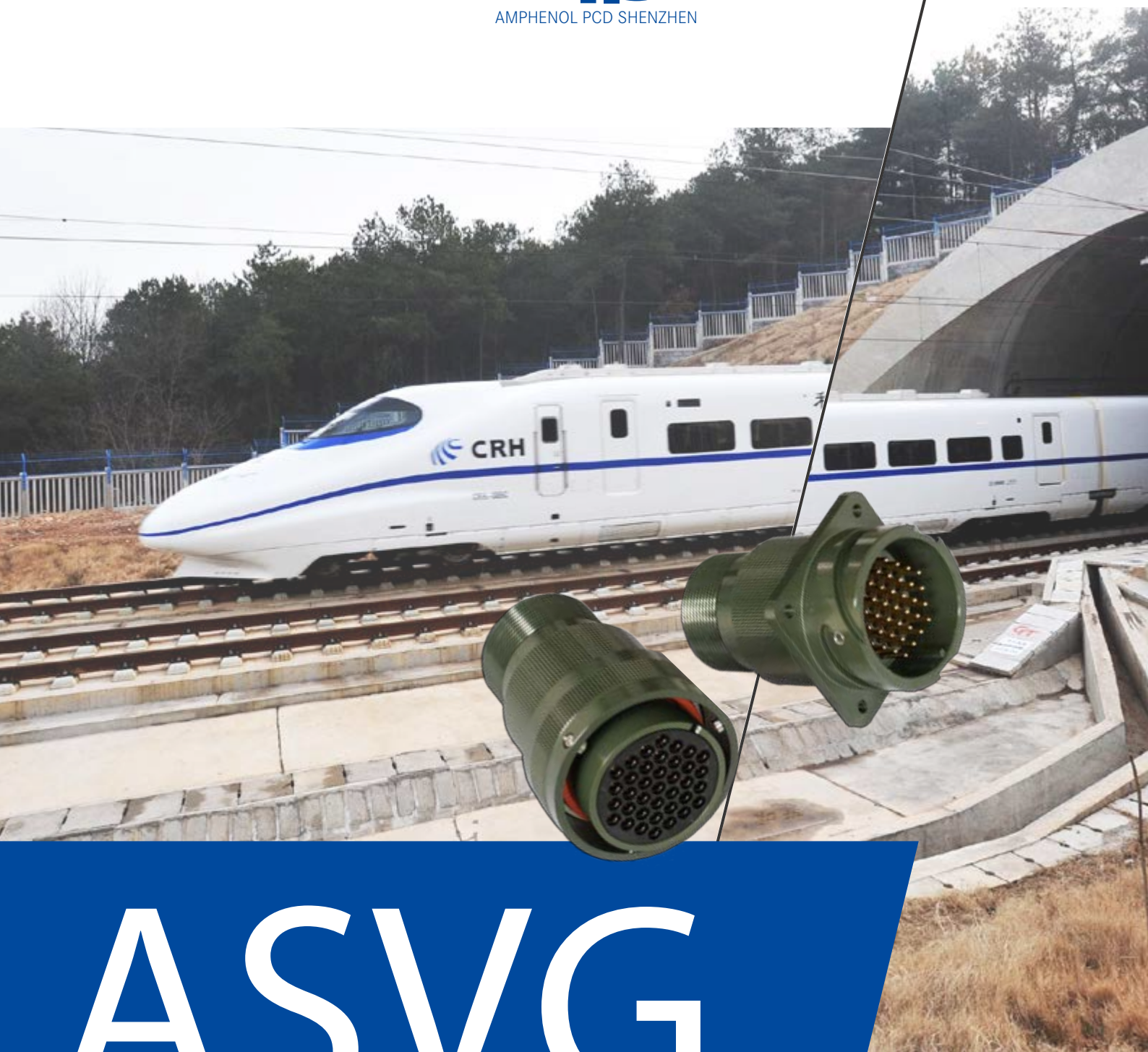




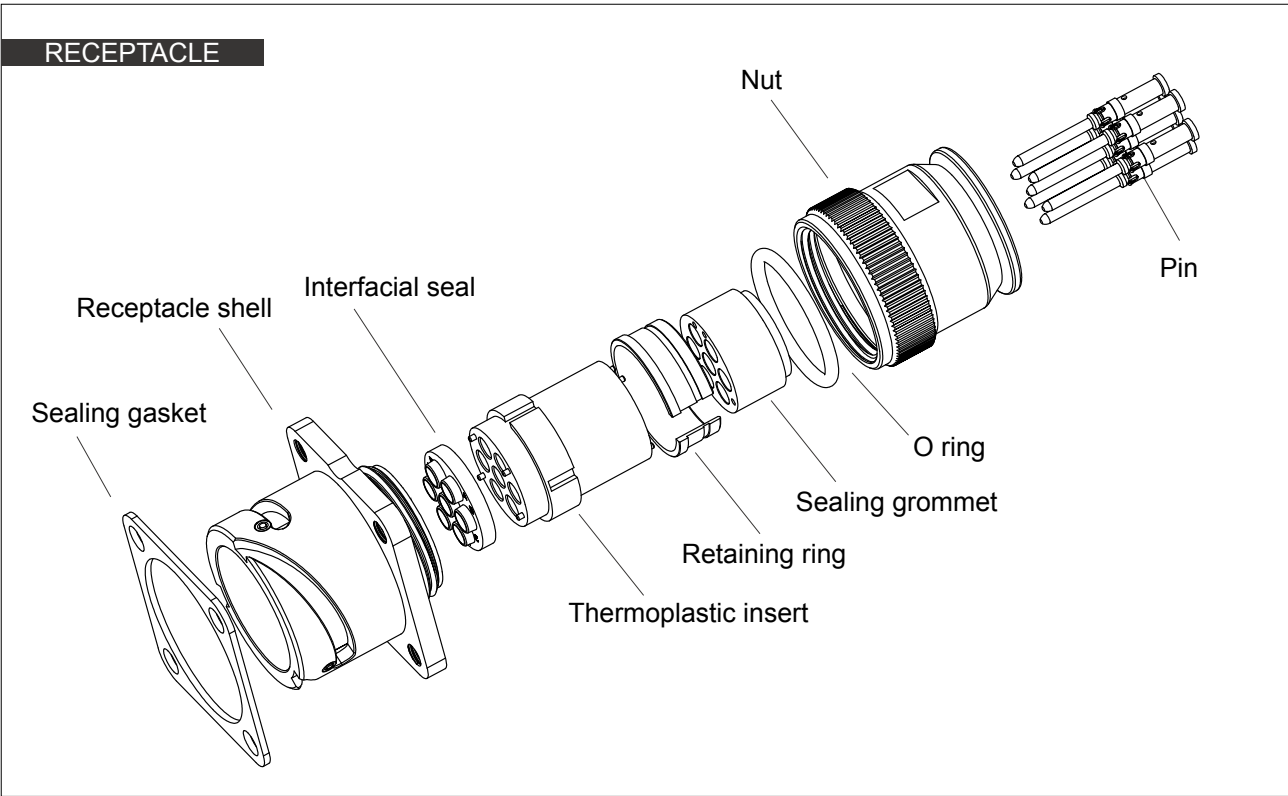
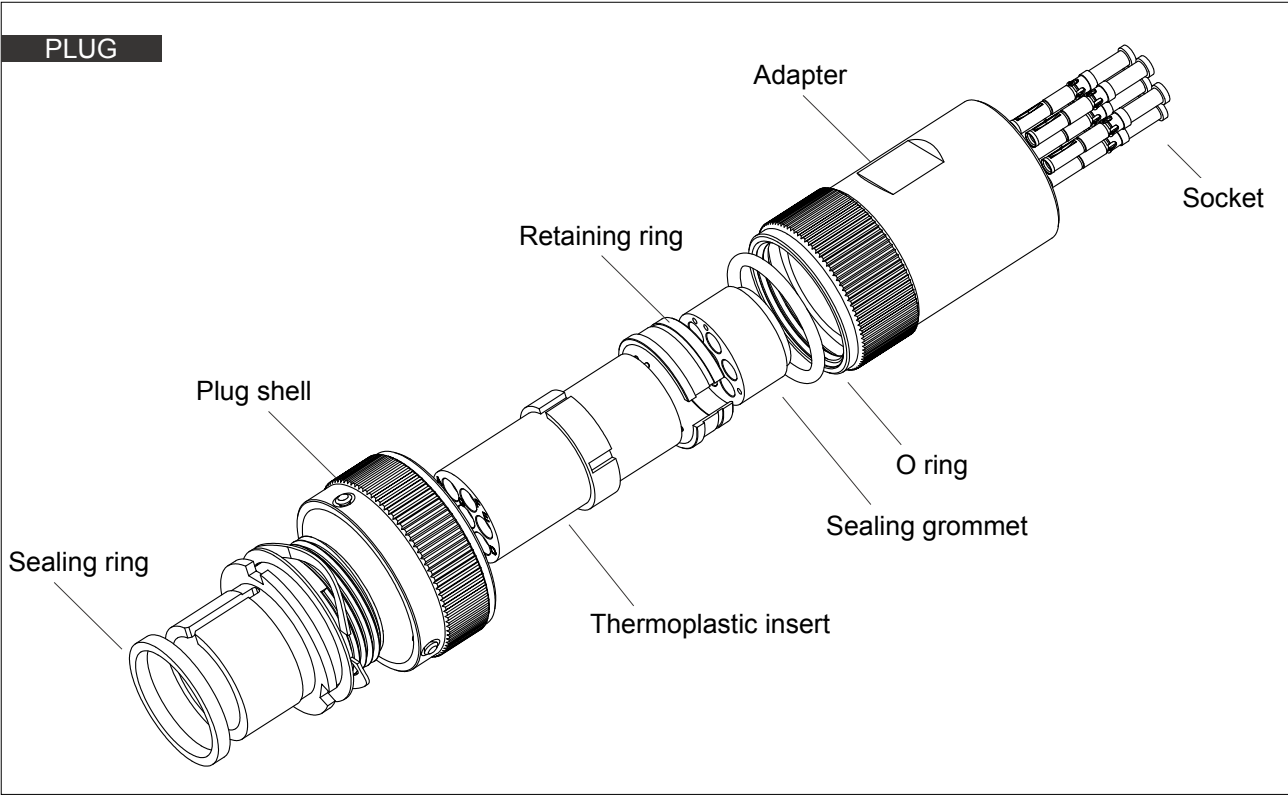
# ASVG

MS5015 Reverse bayonet connector

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# CONNECTOR STRUCTURE





ASVG series has been designed in accordance with the MS5015 specification. This connector is an enhanced version of the MS5015 standard connector but remains completely intermateable with the MS5015 reverse bayonet connectors.

- In conformity with the French railways standard NFF 61030.
- The insulator is in hard thermoplastic, classified UL94V0. It is also in conformity with R22(HL3) according to DIN EN45445 : 2013.
- An interfacial silicon seal is present on the male inserts to extend the creepage distance and to have better sealing when the connector is mated.
- No tools are needed to insert contacts into the insulator. An extraction tool is available to extract the contacts. The tool is engaged by the front face of the connector and the contacts are rear released.
- Contacts are crimped thanks to very common crimping tools.
- The connector is rated IP67 when mated and used with suitable accessories, a grommet or a sealed backshell.
- Offering a variety of additional insert arrangements not described in the MS5015.

The ASVG series offers high reliability and performance for common applications including RMT as well as propulsion technologies, machine tools, measurement and robotics.



### KEY FEATURES

MS5015 Reverse bayonet connector

Conforming with the French Railway standard NFF 61030

High density of insert arrangement

Alternate insert position

Sealing, IP67 (mated and used with backshell and grommet)

| MECHANICAL              |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| Durability              | ≥ 500 mating cycles                                                                                         |
| Vibration & shock       | IEC 61373-1999 (GB/T 21563-2008)                                                                            |
| Contact retention force | #16: 70N<br>#12: 90N<br>#8: 110N<br>#4: 150N<br>#0: 200N                                                    |
| ELECTRICAL              |                                                                                                             |
| Rated current           | #16: 13A max<br>#12: 23A max<br>#8 (normal): 46A max<br>#8 (Radsok): 70A max<br>#4: 80A max<br>#0: 150A max |
| Rated voltage           | Comforming with MS5015, please refer to p.5 and p.6                                                         |
| Contact resistance      | #16: 2.5mΩ max<br>#12: 1.3mΩ max<br>#8: 0.9mΩ max<br>#4: 0.5mΩ max<br>#0: 0.3mΩ max                         |
| Insulator resistance    | ≥ 5000MΩ                                                                                                    |
| Temperature rise        | ≤ 60°C                                                                                                      |
| ENVIRONMENTAL           |                                                                                                             |
| Temperature range       | -55°C to 125°C                                                                                              |
| Humidity                | 90% to 95% (40±2°C)                                                                                         |
| Sealing                 | DIN EN 60529, IP67                                                                                          |
| Inflammability          | EN 45545-2 - R22                                                                                            |
| Salt spray              | 48h (nickel plating)<br>96h (zinc plating)<br>200h (anodized plating)<br>500h (Zn-Ni conductive plating)    |
| MATERIAL                |                                                                                                             |
| Shell                   | Alu.alloy, zinc or nickel or anodized or Zn-Ni conductive plating                                           |
| Inserts                 | Thermoplastic                                                                                               |
| Sealing gasket          | Silicon rubber                                                                                              |
| Contact                 | Copper alloy, silver or gold plating                                                                        |



# INSERT ARRANGEMENT

Contacts  16  12  8  4  0  Coaxial

|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                      |  |  |  |  |  |  |  |
| Insert arrangement   | 12-04 *                                                                           | 14S-A1                                                                            | 14S-A5                                                                            | 14S-6                                                                             | 14S-9                                                                             | 16S-1                                                                               | 16-9                                                                                |
| Rated voltage        | 250V AC                                                                           | 900V AC                                                                           | 200V AC                                                                           | 200V AC                                                                           | 500V AC                                                                           | 500V AC                                                                             | 500V AC                                                                             |
| Rated current        | 13A                                                                               | 70A                                                                               | 13A                                                                               | 13A                                                                               | 13A                                                                               | 13A                                                                                 | 13A, 23A                                                                            |
| Number of contacts   | 4                                                                                 | 1                                                                                 | 5                                                                                 | 6                                                                                 | 2                                                                                 | 7                                                                                   | 2X #16, 2X #12                                                                      |
| Contact size         | #16                                                                               | #8                                                                                | #16                                                                               | #16                                                                               | #16                                                                               | #16                                                                                 | #16, #12                                                                            |
| Withstanding voltage | 2000V                                                                             | 2800V                                                                             | 1000V                                                                             | 1000V                                                                             | 2000V                                                                             | 2000V                                                                               | 2000V                                                                               |

|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                      |  |  |  |  |  |  |
| Insert arrangement   | 18-1                                                                              | 18-2                                                                              | 18-19                                                                             | 18-A2                                                                             | 18-11                                                                               | 20-4                                                                                |
| Rated voltage        | 500V AC                                                                           | 500V AC                                                                           | 500V AC                                                                           | 500V AC                                                                           | 200V AC                                                                             | 900V AC                                                                             |
| Rated current        | 13A                                                                               | 46A                                                                               | 13A                                                                               | NA                                                                                | 23A                                                                                 | 23A                                                                                 |
| Number of contacts   | 10                                                                                | 2                                                                                 | 10                                                                                | 2                                                                                 | 5                                                                                   | 4                                                                                   |
| Contact size         | #16                                                                               | #8                                                                                | #16                                                                               | #8                                                                                | #12                                                                                 | #12                                                                                 |
| Withstanding voltage | 2000V                                                                             | 2000V                                                                             | 2000V                                                                             | 2000V                                                                             | 1000V                                                                               | 2800V                                                                               |

|                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                      |  |  |  |  |  |  |
| Insert arrangement   | 20-7                                                                                | 20-15                                                                               | 20-27                                                                               | 20-29                                                                               | 22-14                                                                                 | 22-A17                                                                                |
| Rated voltage        | 500V AC                                                                             | 500V AC                                                                             | 500V AC                                                                             | 500V AC                                                                             | 500V AC                                                                               | 500V AC                                                                               |
| Rated current        | 13A                                                                                 | 23A                                                                                 | 13A                                                                                 | 16A                                                                                 | 13A                                                                                   | 13A, 23A                                                                              |
| Number of contacts   | 8                                                                                   | 7                                                                                   | 14                                                                                  | 17                                                                                  | 19                                                                                    | 13X #16, 4X #12                                                                       |
| Contact size         | #16                                                                                 | #12                                                                                 | #16                                                                                 | #16                                                                                 | #16                                                                                   | #16, #12                                                                              |
| Withstanding voltage | 2000V                                                                               | 2000V                                                                               | 2000V                                                                               | 2000V                                                                               | 2000V                                                                                 | 2000V                                                                                 |

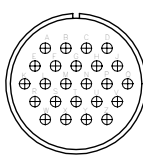
  

|                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                      |  |  |  |  |  |
| Insert arrangement   | 22-22                                                                               | 24-2                                                                                | 24-9                                                                                | 24-10                                                                               | 24-20                                                                                 |
| Rated voltage        | 500V AC                                                                             | 900V AC                                                                             | 500V AC                                                                             | 500V AC                                                                             | 900V AC                                                                               |
| Rated current        | 46A                                                                                 | 23A                                                                                 | 80A                                                                                 | 46A                                                                                 | 13A, 23A                                                                              |
| Number of contacts   | 4                                                                                   | 7                                                                                   | 2                                                                                   | 7                                                                                   | 9X #16, 2X #12                                                                        |
| Contact size         | #8                                                                                  | #12                                                                                 | #4                                                                                  | #8                                                                                  | #16, #12                                                                              |
| Withstanding voltage | 2000V                                                                               | 2800V                                                                               | 2000V                                                                               | 2000V                                                                               | 2800V                                                                                 |

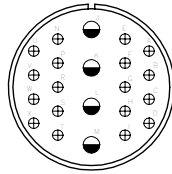
Note:

\* : Special insert arrangement, applicable to some structures. Please refer to the corresponding page for details.  
For more information, please contact us

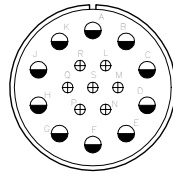
# INSERT ARRANGEMENT



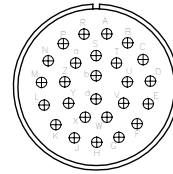
Insert arrangement 24-28  
Rated voltage 500V AC  
Rated current 13A  
Number of contacts 24  
Contact size #16  
Withstanding voltage 2000V



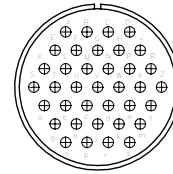
28-11  
Rated voltage 500V AC  
Rated current 13A, 23A  
Number of contacts 18X #16, 4X #12  
Contact size #16, #12  
Withstanding voltage 2000V



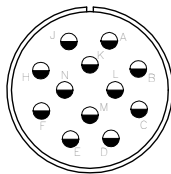
28-A17  
Rated voltage 500V AC  
Rated current 13A, 23A  
Number of contacts 7X #16, 10X #12  
Contact size #16, #12  
Withstanding voltage 2000V



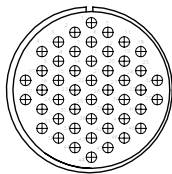
28-12  
Rated voltage 500V AC  
Rated current 13A  
Number of contacts 26  
Contact size #16  
Withstanding voltage 2000V



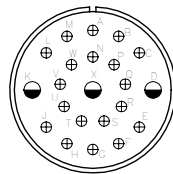
28-21  
Rated voltage 500V AC  
Rated current 13A  
Number of contacts 37  
Contact size #16  
Withstanding voltage 2000V



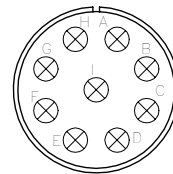
Insert arrangement 28-51  
Rated voltage 900V AC  
Rated current 23A  
Number of contacts 12  
Contact size #12  
Withstanding voltage 2800V



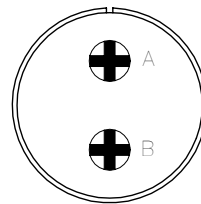
28-48  
Rated voltage 500V AC  
Rated current 13A  
Number of contacts 48  
Contact size #16  
Withstanding voltage 2000V



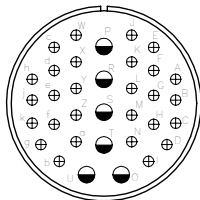
28-A63  
Rated voltage 500V AC  
Rated current 13A, 23A  
Number of contacts 19X #16, 3X #12  
Contact size #16, #12  
Withstanding voltage 2000V



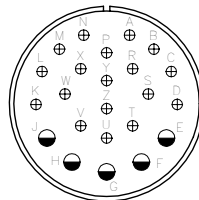
28-84  
Rated voltage 500V AC  
Rated current 46A  
Number of contacts 9  
Contact size #8  
Withstanding voltage 2000V



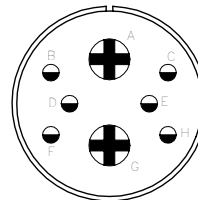
32-5  
Rated voltage 900V AC  
Rated current 150A  
Number of contacts 2  
Contact size #0  
Withstanding voltage 2800V



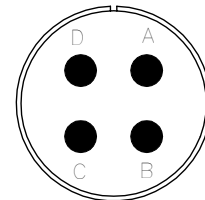
Insert arrangement 32-A7  
Rated voltage 500V AC  
Rated current 13A, 23A  
Number of contacts 28X #16, 6X #12  
Contact size #16, #12  
Withstanding voltage 2000V



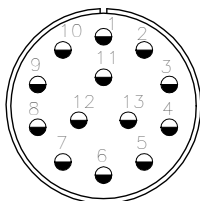
32-13  
Rated voltage 900V AC  
Rated current 13A, 23A  
Number of contacts 18X #16, 5X #12  
Contact size #16, #12  
Withstanding voltage 2800V



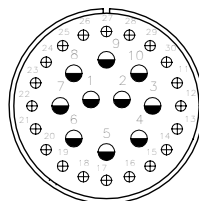
32-15  
Rated voltage 900V AC  
Rated current 23A, 150A  
Number of contacts 6X #12, 2X #0  
Contact size #12, #0  
Withstanding voltage 2800V



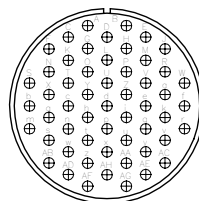
32-17  
Rated voltage 900V AC  
Rated current 70A  
Number of contacts 4  
Contact size #4  
Withstanding voltage 2800V



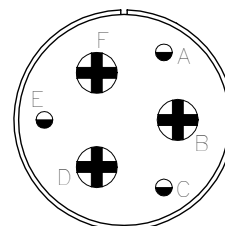
Insert arrangement 32-013  
Rated voltage 900V AC  
Rated current 23A  
Number of contacts 13X #12  
Contact size #12  
Withstanding voltage 2800V



32-A30  
Rated voltage 500V AC  
Rated current 13A, 23A  
Number of contacts 20X #16, 10X #12  
Contact size #16, #12  
Withstanding voltage 2000V

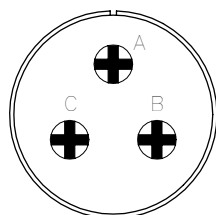


32-A55  
Rated voltage 500V AC  
Rated current 13A  
Number of contacts 55  
Contact size #16  
Withstanding voltage 2000V



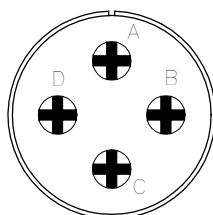
36-3  
Rated voltage 900V AC  
Rated current 23A, 150A  
Number of contacts 3X #12, 3X #0  
Contact size #12, #0  
Withstanding voltage 2800V

# INSERT ARRANGEMENT

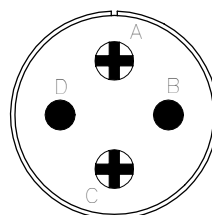


Insert arrangement  
Rated voltage  
Rated current  
Number of contacts  
Contact size  
Withstanding voltage

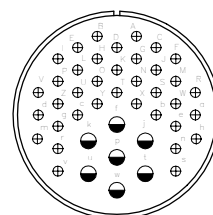
36-4  
500V AC  
150A  
3  
#0  
2000V



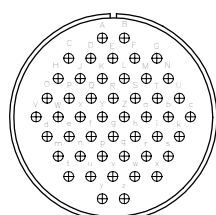
36-5  
500V AC  
150A  
4  
#0  
2000V



36-A6  
500V AC  
70A,150A  
2X #4,2X #0  
#4,#0  
2000V

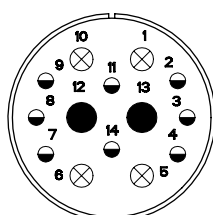


36-A7  
500V AC  
13A,23A  
37X #16,7X #12  
#16,#12  
2000V

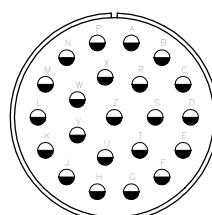


Insert arrangement  
Rated voltage  
Rated current  
Number of contacts  
Contact size  
Withstanding voltage

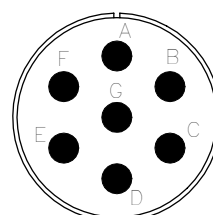
36-10  
500V AC  
13A  
48  
#16  
2000V



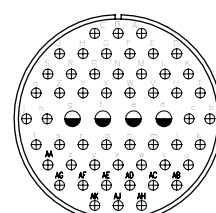
36-A14  
500V  
23A,46A,80A  
8X #12,4X #8,2X #4  
#12,#8,#4  
2000V



36-22  
900V AC  
23A  
22  
#12  
2800V

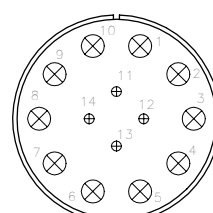


36-77  
900V AC  
70A  
7  
#4  
2800V

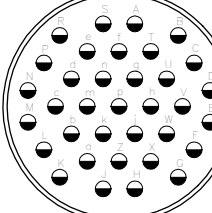


Insert arrangement  
Rated voltage  
Rated current  
Number of contacts  
Contact size  
Withstanding voltage

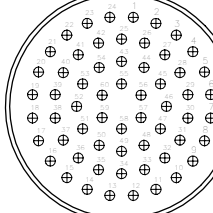
36-66  
500V AC  
16A,23A  
52X #16,4X #12  
#16,#12  
2000V



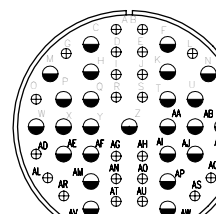
36-A78  
500V  
13A,46A  
4X #16,10X #8  
#16,#8  
2000V



40-35  
900V AC  
23A  
35  
#12  
2800V

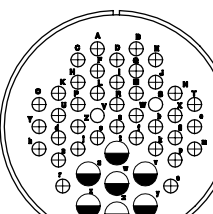


40-53  
500V AC  
13A  
60  
#16  
2000V



Insert arrangement  
Rated voltage  
Rated current  
Number of contacts  
Contact size  
Withstanding voltage

40-951  
500V  
13A,23A  
26X #16,25 X#12  
#16,#12  
2000V



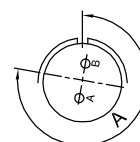
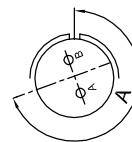
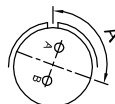
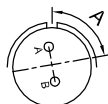
40-A47  
500V AC  
13A,23A  
40X #16,7X #12  
#16,#12  
2000V



## HOW TO ORDER

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASVG | RM | 03 | R | 18 | 19 | PC | X | / |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|----|---|----|----|----|---|---|
| <b>Box mounted receptacle:</b><br><b>RM:</b> Rear panel mount receptacle<br><b>Omit:</b> Front panel mount receptacle                                                                                                                                                                                                                                                                                                                                                                             |      |    |    |   |    |    |    |   |   |
| <b>Connector type:</b><br><b>01:</b> Cable mounted receptacle<br><b>02:</b> Box mounted receptacle,<br><i>for thread mounting holes</i><br><b>020:</b> Box mounted receptacle,<br><i>through mounting holes</i><br><b>03:</b> Box mounted receptacle with backshell,<br><i>for thread mounting holes</i><br><b>030:</b> Box mounted receptacle with backshell,<br><i>through mounting holes</i><br><b>06:</b> Straight plug<br><b>07:</b> Jam nut receptacle, rear mount<br><b>08:</b> R/A plug   |      |    |    |   |    |    |    |   |   |
| <b>Connector service class:</b><br><b>R:</b> With backshell and sealing gromet<br><b>A:</b> With backshell, without sealing gromet<br><b>F:</b> With cable clamp<br><b>AF:</b> With cable clamp, without sealing gromet<br><b>SF:</b> With external scew thread<br><b>ASF:</b> With external scew thread, without sealing gromet<br><b>RS:</b> With sealing gromet<br><b>RMI:</b> With internal scew thread, with sealing gromet<br><b>AMI:</b> With internal scew thread, without sealing gromet |      |    |    |   |    |    |    |   |   |
| <b>Shell size:</b><br>14S, 16S, 18, 20, 22, 24, 28, 32, 36, 40                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |    |   |    |    |    |   |   |
| Insert arrangement, please refer to Page 5 to 7                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |    |   |    |    |    |   |   |
| <b>Contact type:</b><br><b>PC:</b> Pin, crimp<br><b>SC:</b> Socket, crimp                                                                                                                                                                                                                                                                                                                                                                                                                         |      |    |    |   |    |    |    |   |   |
| <b>Alternate insert position:</b><br><b>Omit:</b> Standard position<br><b>W:</b> Please refer to Page 9<br><b>X:</b> Please refer to Page 9<br><b>Y:</b> Please refer to Page 9<br><b>Z:</b> Please refer to Page 9                                                                                                                                                                                                                                                                               |      |    |    |   |    |    |    |   |   |
| <b>Plating:</b><br><b>Omit:</b> Black zinc<br><b>NI:</b> Nickel<br><b>GZ:</b> Olive drab zinc<br><b>BA:</b> Black hard anodized<br><b>ZN:</b> Zn-nickel                                                                                                                                                                                                                                                                                                                                           |      |    |    |   |    |    |    |   |   |

Diagrams show front face of pin insert or rear of socket insert



Standard position

Position W

Position X

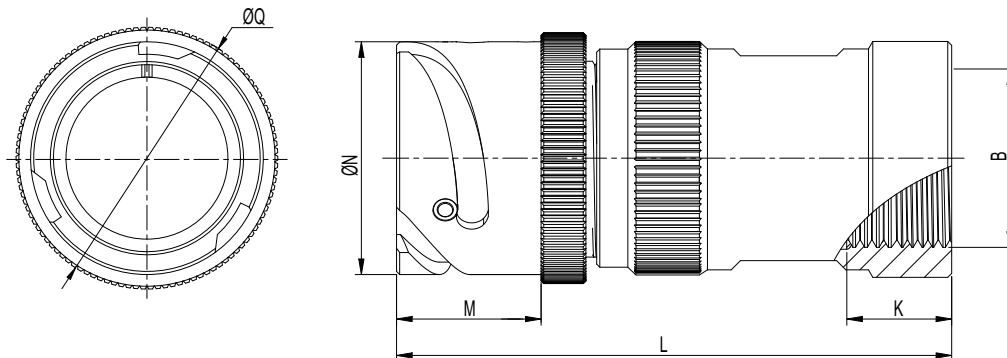
Position Y

Position Z

| Insert arrangement | Degrees for alternate position |     |     |     |
|--------------------|--------------------------------|-----|-----|-----|
|                    | W                              | X   | Y   | Z   |
| 14S-A5             | -                              | 110 | -   | -   |
| 14S-6              | -                              | 110 | -   | -   |
| 14S-9              | 70                             | 145 | 215 | 290 |
| 16S-1              | 80                             | -   | -   | 280 |
| 16-9               | 35                             | 110 | 250 | 325 |
| 18-1               | 70                             | 145 | 215 | 290 |
| 18-2               | 70                             | 145 | 215 | 290 |
| 18-A2              | -                              | -   | -   | -   |
| 18-11              | -                              | 170 | 265 | -   |
| 18-19              | -                              | 120 | 240 | -   |
| 20-3               | 70                             | 145 | 215 | 290 |
| 20-4               | 45                             | 110 | 250 | -   |
| 20-7               | 80                             | 110 | 250 | 280 |
| 20-15              | 80                             | -   | -   | 280 |
| 20-27              | 35                             | 110 | 250 | 325 |
| 20-29              | 80                             | -   | -   | 280 |
| 22-14              | 80                             | -   | -   | 280 |
| 22-A17             | 80                             | 110 | 250 | 280 |
| 22-22              | -                              | 110 | 250 | -   |
| 24-2               | 80                             | -   | -   | 280 |
| 24-9               | 35                             | 110 | 250 | 325 |
| 24-10              | 80                             | -   | -   | 280 |
| 24-20              | 80                             | 110 | 250 | 280 |
| 24-28              | 80                             | 110 | 250 | 280 |
| 28-11              | 80                             | 110 | 250 | 280 |
| 28-12              | 90                             | 180 | 270 | -   |
| 28-A17             | 90                             | -   | -   | -   |
| 28-21              | 80                             | 110 | 250 | 280 |
| 28-A23             | 90                             | -   | -   | -   |
| 28-48              | 80                             | 110 | 250 | 280 |
| 28-51              | 80                             | 135 | 190 | -   |
| 28-A63             | -                              | 100 | 260 | -   |
| 28-84              | 45                             | 90  | 135 | 157 |
| 32-5               | 80                             | 110 | 250 | 325 |
| 32-A7              | 80                             | 125 | 235 | 280 |
| 32-13              | 80                             | 110 | 250 | 280 |
| 32-013             | 65                             | 130 | 230 | 295 |
| 32-15              | 35                             | 110 | 250 | 280 |
| 32-17              | 45                             | 110 | 250 | -   |
| 32-A30             | 90                             | 180 | -   | -   |
| 32-A55             | 80                             | 110 | 250 | 280 |
| 36-3               | 70                             | 145 | 215 | 290 |
| 36-4               | 70                             | 145 | 215 | 290 |
| 36-5               | -                              | 120 | 240 | -   |
| 36-A6              | 35                             | 110 | 250 | 325 |
| 36-A7              | 80                             | 110 | 250 | 280 |
| 36-10              | 80                             | 125 | 235 | 280 |
| 36-A14             | 35                             | 110 | 250 | 325 |
| 36-22              | 80                             | 110 | 250 | 280 |
| 36-66              | 110                            | 250 | 260 | 280 |
| 36-77              | 45                             | 90  | -   | -   |
| 36-A78             | 90                             | -   | -   | -   |
| 40-35              | 70                             | 130 | 230 | 290 |
| 40-53              | 80                             | 110 | 250 | 280 |
| 40-951             | 90                             | 105 | -   | -   |
| 40-A47             | 80                             | 110 | 250 | 280 |

## CABLE MOUNTED RECEPTACLE

ASVG01ASF-With threaded shell to accept backshell, without sealing grommet

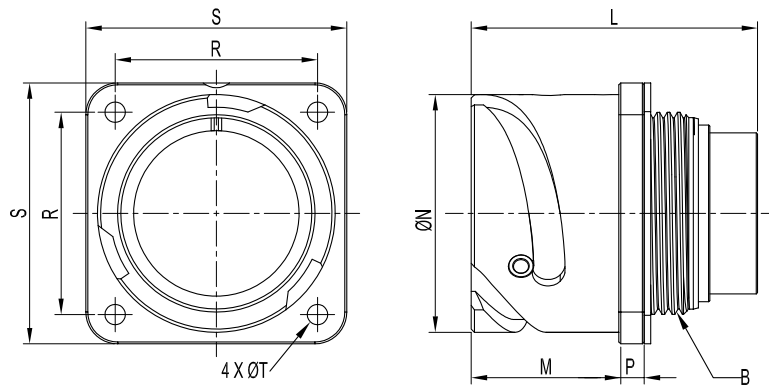


| Shell size | B Thread – 2A | L Ref | M $\pm 0.3$ | N $\pm 0.2$ | Q Max | K $\pm 0.1$ |
|------------|---------------|-------|-------------|-------------|-------|-------------|
| 14S        | 0.7500-20UNEF | 55.0  | 18.4        | 24.6        | 28.0  | 10.0        |
| 16S        | 0.8750-20UNEF | 60.0  | 18.4        | 27.4        | 31.0  | 10.0        |
| 18         | 1.0000-20UNEF | 70.0  | 23.2        | 30.8        | 34.0  | 10.0        |
| 20         | 1.1875-18UNEF | 70.0  | 23.2        | 34.2        | 37.0  | 10.0        |
| 22         | 1.1875-18UNEF | 75.0  | 23.2        | 37.4        | 40.0  | 10.0        |
| 24         | 1.4375-18UNEF | 75.0  | 23.2        | 40.8        | 43.5  | 11.0        |
| 28         | 1.4375-18UNEF | 75.0  | 24.2        | 46.6        | 49.5  | 11.0        |
| 32         | 1.7500-18UNS  | 75.0  | 24.2        | 53.3        | 56.0  | 12.0        |
| 36         | 2.0000-18UNS  | 75.0  | 24.2        | 59.5        | 62.5  | 12.0        |
| 40         | 2.2500-16UNS  | 75.0  | 24.2        | 65.5        | 68.5  | 12.0        |

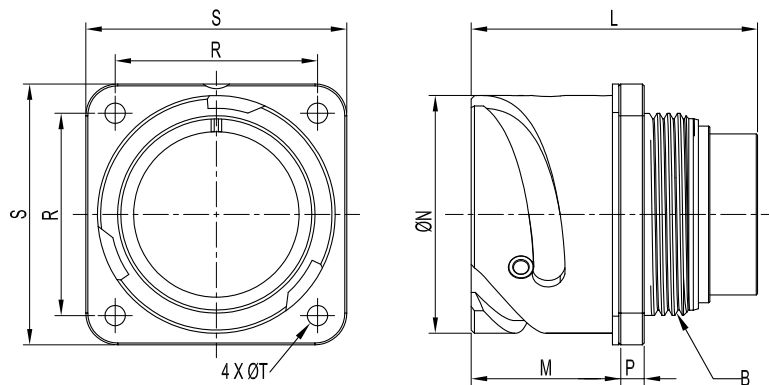
Dimension in mm

# BOX MOUNTED RECEPTACLE ASVG02A / ASVG020A - With threaded shell to accept backshell

## FRONT MOUNTED



## REAR MOUNTED



| Shell size | B Thread - 2A | L Ref | M $\pm 0.3$ | N $\pm 0.2$ | P $\pm 0.2$ | R $\pm 0.1$ | S $\pm 0.15$ | T      |
|------------|---------------|-------|-------------|-------------|-------------|-------------|--------------|--------|
| 12         | N/A           | 27.0  | 14.2        | 19.0        | 3.2         | 20.0        | 26.0         | 3.2    |
| 14S        | 0.7500-20UNEF | 33.0  | 18.4        | 24.6        | 3.2         | 23.0        | 30.0         | 3.2/M4 |
| 16S        | 0.8750-20UNEF | 36.0  | 18.4        | 27.4        | 3.2         | 24.6        | 32.5         | 3.2/M4 |
| 18         | 1.0000-20UNEF | 45.0  | 23.2        | 30.8        | 4.0         | 27.0        | 35.0         | 3.2/M4 |
| 20         | 1.1250-18UNEF | 45.0  | 23.2        | 34.2        | 4.0         | 29.4        | 38.0         | 3.2/M4 |
| 22         | 1.2500-18UNEF | 45.0  | 23.2        | 37.4        | 4.0         | 31.8        | 41.0         | 3.2/M4 |
| 24         | 1.3750-18UNEF | 45.0  | 23.2        | 40.8        | 4.0         | 34.9        | 44.5         | 3.7/M4 |
| 28         | 1.6250-18UNEF | 45.0  | 24.2        | 46.6        | 4.0         | 39.7        | 50.8         | 3.7/M5 |
| 32         | 1.8750-16UNS  | 45.0  | 24.2        | 53.3        | 4.0         | 44.5        | 57.0         | 4.3/M5 |
| 36         | 2.0625-16UNS  | 45.0  | 24.2        | 59.5        | 4.0         | 49.2        | 63.5         | 4.3/M5 |
| 40         | 2.3125-16UNS  | 45.0  | 24.2        | 65.5        | 4.0         | 55.5        | 69.9         | 4.3/M5 |

Dimension in mm

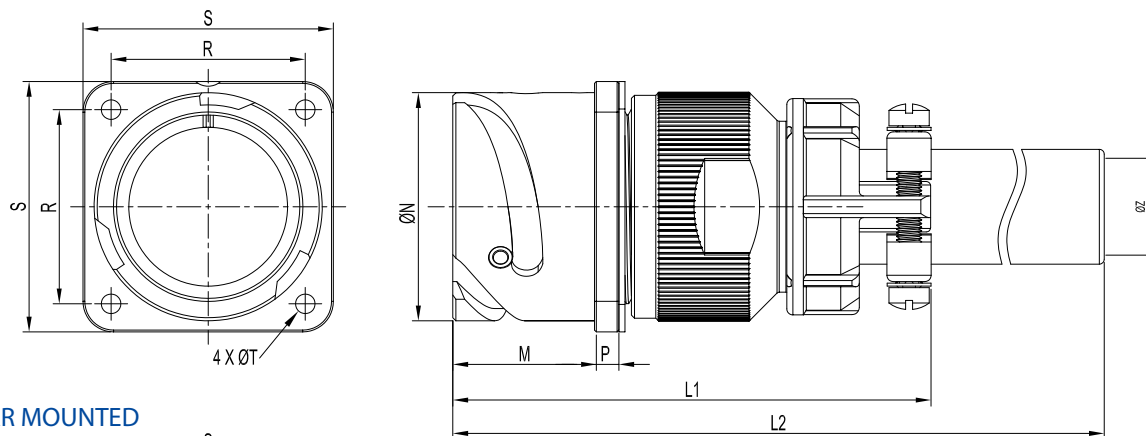
# ASVG03F /ASVG030F ASVG03AF /ASVG030AF

## BOX MOUNTED RECEPTACLE

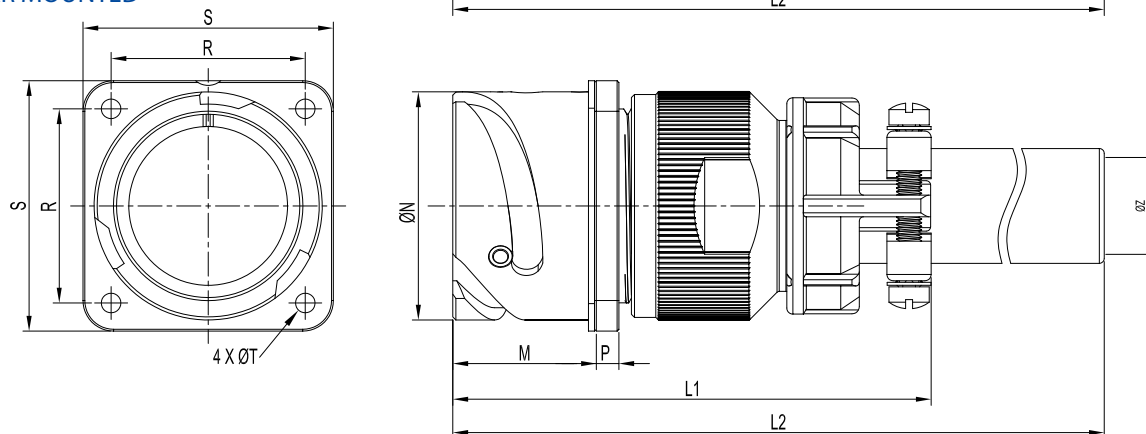
ASVG03F/ASVG030F - For cable, with sealing gromet

ASVG03AF/ASVG030AF - For cable, without sealing gromet

## FRONT MOUNTED



## REAR MOUNTED



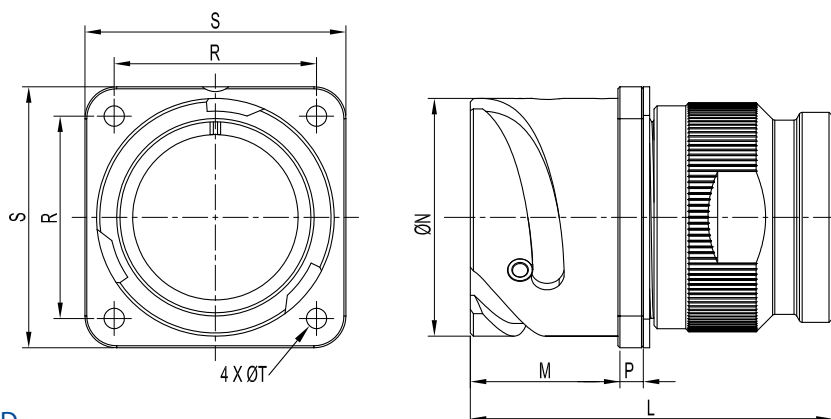
| Shell size | L1 Ref | L2 Ref | M $\pm 0.3$ | N $\pm 0.2$ | P $\pm 0.2$ | R $\pm 0.1$ | S $\pm 0.15$ | T      | Z $\pm 0.2$ |
|------------|--------|--------|-------------|-------------|-------------|-------------|--------------|--------|-------------|
| 14S        | 65.0   | 120.0  | 18.4        | 24.6        | 3.2         | 23.0        | 30.0         | 3.2/M4 | 8.0         |
| 16S        | 65.0   | 120.0  | 18.4        | 27.4        | 3.2         | 24.6        | 32.5         | 3.2/M4 | 11.1        |
| 18         | 81.0   | 130.0  | 23.2        | 30.8        | 4.0         | 27.0        | 35.0         | 3.2/M4 | 14.3        |
| 20         | 81.0   | 125.0  | 23.2        | 34.2        | 4.0         | 29.4        | 38.0         | 3.2/M4 | 15.9        |
| 22         | 81.0   | 125.0  | 23.2        | 37.4        | 4.0         | 31.8        | 41.0         | 3.2/M4 | 15.9        |
| 24         | 81.0   | 120.0  | 23.2        | 40.8        | 4.0         | 34.9        | 44.5         | 3.7/M4 | 19.1        |
| 28         | 85.0   | 120.0  | 24.2        | 46.6        | 4.0         | 39.7        | 50.8         | 3.7/M5 | 19.1        |
| 32         | 85.0   | 120.0  | 24.2        | 53.3        | 4.0         | 44.5        | 57.0         | 4.3/M5 | 23.8        |
| 36         | 85.0   | 120.0  | 24.2        | 59.5        | 4.0         | 49.2        | 63.5         | 4.3/M5 | 31.8        |
| 40         | 85.0   | 120.0  | 24.2        | 65.5        | 4.0         | 55.5        | 69.9         | 4.3/M5 | 35.0        |

Dimension in mm

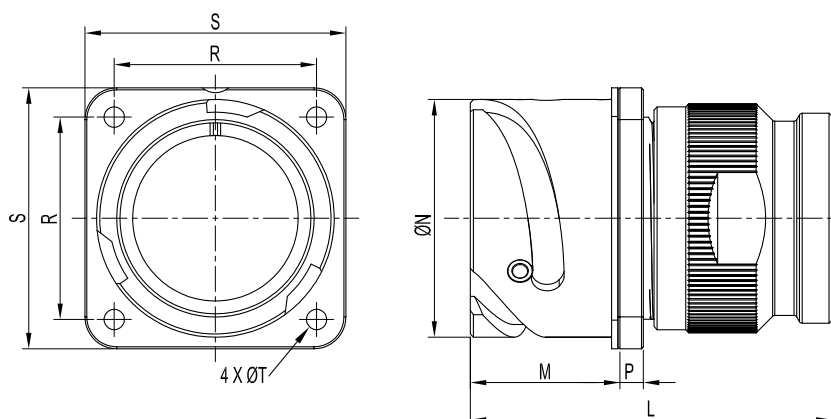


# BOX MOUNTED RECEPTACLE ASVG03RS/ASVG030RS - For single wire

## FRONT MOUNTED



## REAR MOUNTED



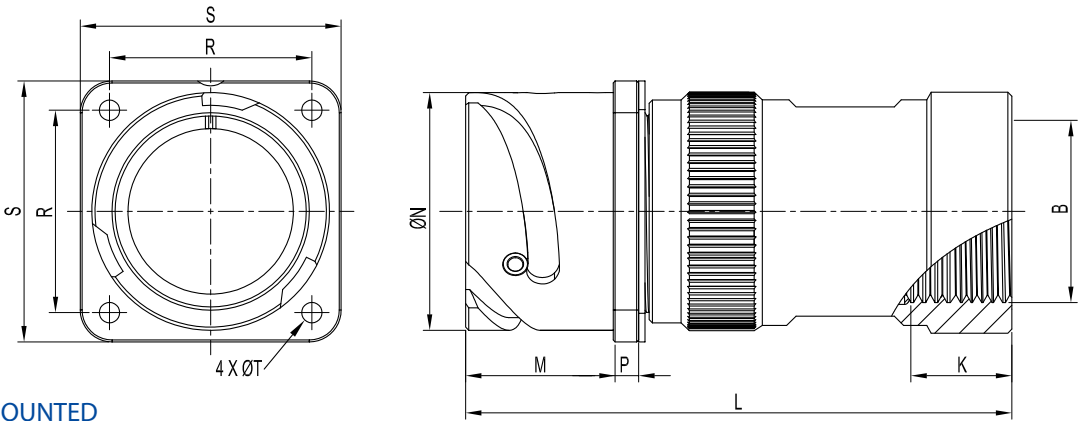
| Shell size | L Ref | M $\pm 0.3$ | N $\pm 0.2$ | P $\pm 0.2$ | R $\pm 0.1$ | S $\pm 0.15$ | T      |
|------------|-------|-------------|-------------|-------------|-------------|--------------|--------|
| 12         | 31.0  | 14.2        | 19.0        | 3.2         | 20.0        | 26.0         | 3.2    |
| 14S        | 45.0  | 18.4        | 24.6        | 3.2         | 23.0        | 30.0         | 3.2/M4 |
| 16S        | 48.0  | 18.4        | 27.4        | 3.2         | 24.6        | 32.5         | 3.2/M4 |
| 18         | 58.0  | 23.2        | 30.8        | 4.0         | 27.0        | 35.0         | 3.2/M4 |
| 20         | 58.0  | 23.2        | 34.2        | 4.0         | 29.4        | 38.0         | 3.2/M4 |
| 22         | 58.0  | 23.2        | 37.4        | 4.0         | 31.8        | 41.0         | 3.2/M4 |
| 24         | 58.0  | 23.2        | 40.8        | 4.0         | 34.9        | 44.5         | 3.7/M4 |
| 28         | 58.0  | 24.2        | 46.6        | 4.0         | 39.7        | 50.8         | 3.7/M5 |
| 32         | 70.0  | 24.2        | 53.3        | 4.0         | 44.5        | 57.0         | 4.3/M5 |
| 36         | 70.0  | 24.2        | 59.5        | 4.0         | 49.2        | 63.5         | 4.3/M5 |
| 40         | 70.0  | 24.2        | 65.5        | 4.0         | 55.5        | 69.9         | 4.3/M5 |

Dimension in mm

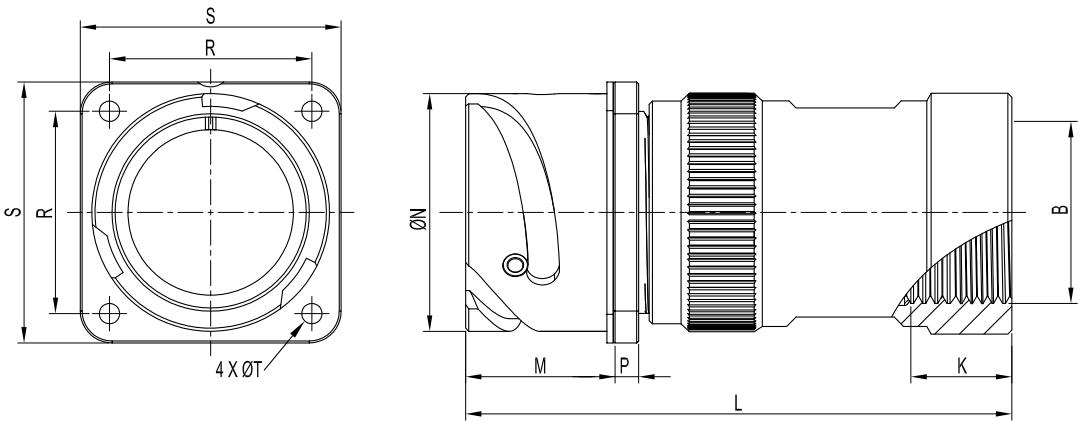
# ASVG03SF/ASVG030SF ASVG030ASF/ASVG030ASF

**BOX MOUNTED RECEPTACLE**  
 ASVG03SF/ ASVG030SF- With threaded shell to accept backshell & sealing grommet  
 ASVG03ASF/ ASVG030ASF- With threaded shell to accept backshell, without sealing grommet

## FRONT MOUNTED



## REAR MOUNTED



| Shell size | B Thread – 2B | L Ref | M ±0.3 | N ±0.2 | P ±0.2 | R ±0.1 | S ±0.15 | T      | K ±0.1 |
|------------|---------------|-------|--------|--------|--------|--------|---------|--------|--------|
| 14S        | 0.7500-20UNEF | 55.0  | 18.4   | 24.6   | 3.2    | 23.0   | 30.0    | 3.2/M4 | 10.0   |
| 16S        | 0.8750-20UNEF | 60.0  | 18.4   | 27.4   | 3.2    | 24.6   | 32.5    | 3.2/M4 | 10.0   |
| 18         | 1.0000-20UNEF | 70.0  | 23.2   | 30.8   | 4.0    | 27.0   | 35.0    | 3.2/M4 | 10.0   |
| 20         | 1.1875-18UNEF | 70.0  | 23.2   | 34.2   | 4.0    | 29.4   | 38.0    | 3.2/M4 | 10.0   |
| 22         | 1.1875-18UNEF | 75.0  | 23.2   | 37.4   | 4.0    | 31.8   | 41.0    | 3.2/M4 | 10.0   |
| 24         | 1.4375-18UNEF | 75.0  | 23.2   | 40.8   | 4.0    | 34.9   | 44.5    | 3.7/M4 | 11.0   |
| 28         | 1.4375-18UNEF | 75.0  | 24.2   | 46.6   | 4.0    | 39.7   | 50.8    | 3.7/M5 | 11.0   |
| 32         | 1.7500-18UNS  | 75.0  | 24.2   | 53.3   | 4.0    | 44.5   | 57.0    | 4.3/M5 | 12.0   |
| 36         | 2.0000-18UNS  | 75.0  | 24.2   | 59.5   | 4.0    | 49.2   | 63.5    | 4.3/M5 | 12.0   |
| 40         | 2.2500-16UNS  | 75.0  | 24.2   | 65.5   | 4.0    | 55.5   | 69.9    | 4.3/M5 | 12.0   |

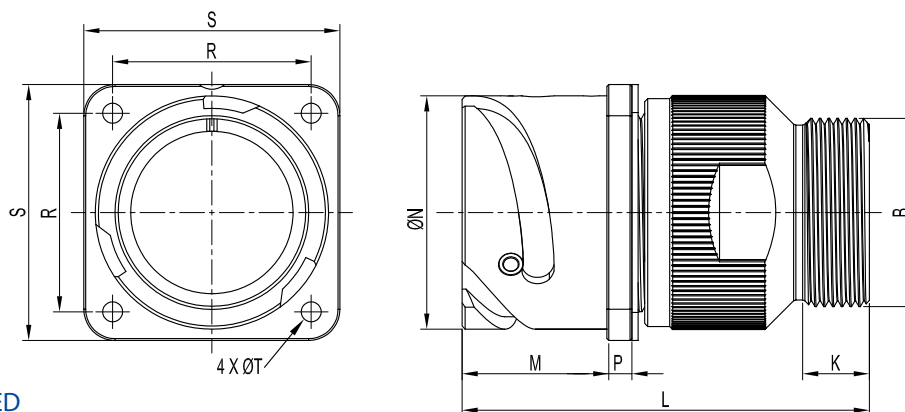
Dimension in mm

# BOX MOUNTED RECEPTACLE

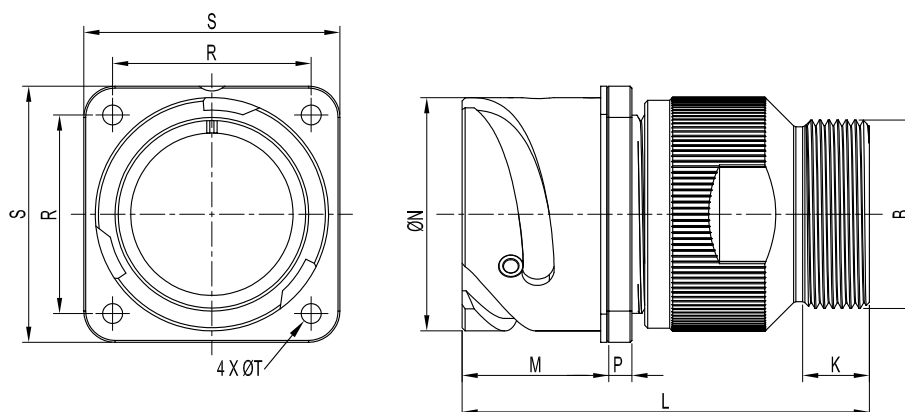
ASVG03A/ASVG030A - With threaded shell to accept backshell, without sealing grommet

ASVG03R/ASVG030R - With threaded shell to accept backshell & sealing grommet

## FRONT MOUNTED



## REAR MOUNTED



| Shell size | B Thread - 2A | L Ref | M $\pm 0.3$ | N $\pm 0.2$ | P $\pm 0.2$ | R $\pm 0.1$ | S $\pm 0.15$ | T      | K $\pm 0.2$ |
|------------|---------------|-------|-------------|-------------|-------------|-------------|--------------|--------|-------------|
| 14S        | 0.7500-20UNEF | 55.0  | 18.4        | 24.6        | 3.2         | 23.0        | 30.0         | 3.2/M4 | 10          |
| 16S        | 0.8750-20UNEF | 60.0  | 18.4        | 27.4        | 3.2         | 24.6        | 32.5         | 3.2/M4 | 10          |
| 18         | 1.0000-20UNEF | 62.0  | 23.2        | 30.8        | 4.0         | 27.0        | 35.0         | 3.2/M4 | 10          |
| 20         | 1.1875-18UNEF | 65.0  | 23.2        | 34.2        | 4.0         | 29.4        | 38.0         | 3.2/M4 | 10          |
| 22         | 1.1875-18UNEF | 65.0  | 23.2        | 37.4        | 4.0         | 31.8        | 41.0         | 3.2/M4 | 10          |
| 24         | 1.4375-18UNEF | 65.0  | 23.2        | 40.8        | 4.0         | 34.9        | 44.5         | 3.7/M4 | 10          |
| 28         | 1.4375-18UNEF | 70.0  | 24.2        | 46.6        | 4.0         | 39.7        | 50.8         | 3.7/M5 | 10          |
| 32         | 1.7500-18UNS  | 70.0  | 24.2        | 53.3        | 4.0         | 44.5        | 57.0         | 4.3/M5 | 10          |
| 36         | 2.0000-18UNS  | 70.0  | 24.2        | 59.5        | 4.0         | 49.2        | 63.5         | 4.3/M5 | 10          |
| 40         | 2.2500-16UNS  | 70.0  | 24.2        | 65.5        | 4.0         | 55.0        | 69.8         | 4.3/M5 | 10          |

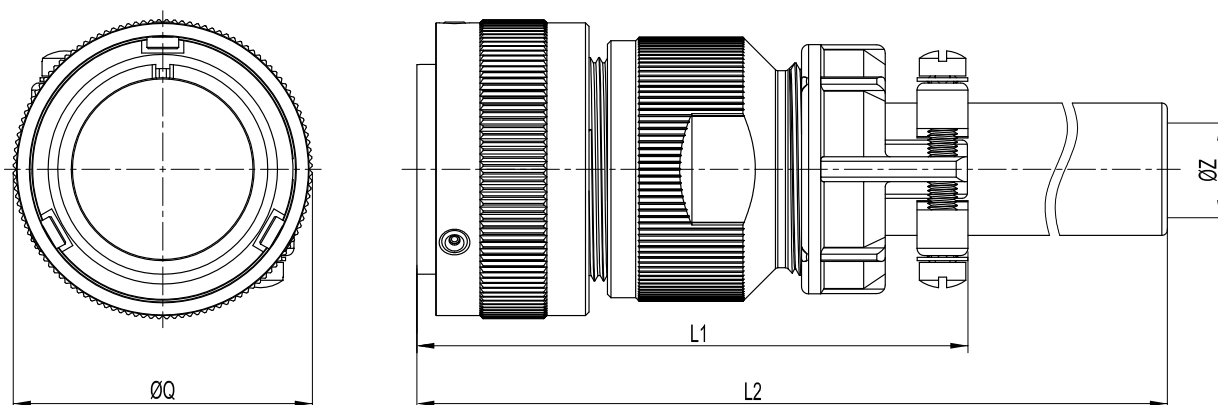
Dimension in mm

# ASVG06F ASVG06AF

## STRAIGHT PLUG

ASVG06F - For cable, with sealing grommet

ASVG06AF - For cable, without sealing grommet



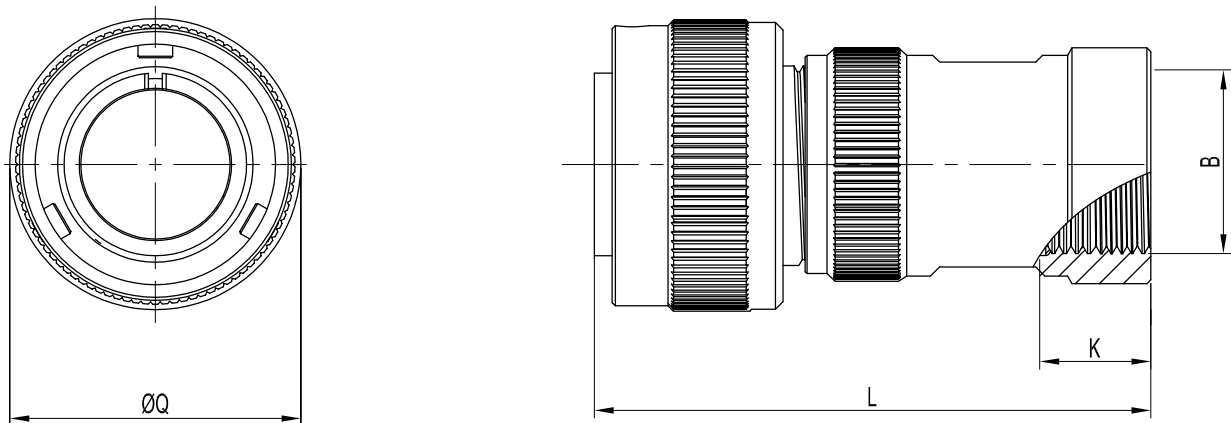
| Shell size | L1 Ref | L2 Ref | Q Max | Z ±0.2 |
|------------|--------|--------|-------|--------|
| 14S        | 65.0   | 120.0  | 29.5  | 9.0    |
| 16S        | 65.0   | 120.0  | 32.0  | 11.1   |
| 18         | 81.0   | 130.0  | 36.5  | 14.3   |
| 20         | 81.0   | 125.0  | 39.9  | 15.9   |
| 22         | 81.0   | 125.0  | 43.1  | 15.9   |
| 24         | 81.0   | 120.0  | 46.6  | 19.1   |
| 28         | 85.0   | 120.0  | 53.4  | 19.1   |
| 32         | 85.0   | 120.0  | 60.1  | 23.8   |
| 36         | 85.0   | 120.0  | 66.3  | 31.8   |
| 40         | 85.0   | 120.0  | 72.4  | 35.0   |

Dimension in mm

# STRAIGHT PLUG

ASVG06SF - With threaded shell to accept backshell & sealing grommet

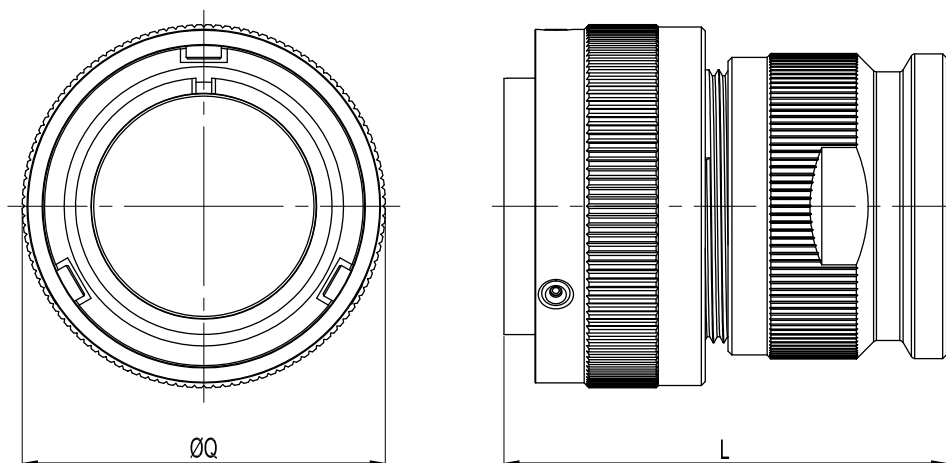
ASVG06ASF - With threaded shell to accept backshell, without sealing grommet



| Shell size | B Thread – 2B | L Ref | Q Max | K ±0.2 |
|------------|---------------|-------|-------|--------|
| 14S        | 0.7500-20UNEF | 60.0  | 29.5  | 10.0   |
| 16S        | 0.8750-20UNEF | 65.0  | 32.0  | 10.0   |
| 18         | 1.0000-20UNEF | 75.0  | 36.5  | 10.0   |
| 20         | 1.1875-18UNEF | 75.0  | 39.9  | 10.0   |
| 22         | 1.1875-18UNEF | 75.0  | 43.1  | 10.0   |
| 24         | 1.4375-18UNEF | 75.0  | 46.6  | 11.0   |
| 28         | 1.4375-18UNEF | 75.0  | 53.4  | 11.0   |
| 32         | 1.7500-18UNS  | 75.0  | 60.1  | 12.0   |
| 36         | 2.0000-18UNS  | 75.0  | 66.3  | 12.0   |
| 40         | 2.2500-16UNS  | 75.0  | 72.4  | 12.0   |

Dimension in mm

## STRAIGHT PLUG, RESISTANT TO HARSH ENVIRONMENT ASVG06RS - For single core cable



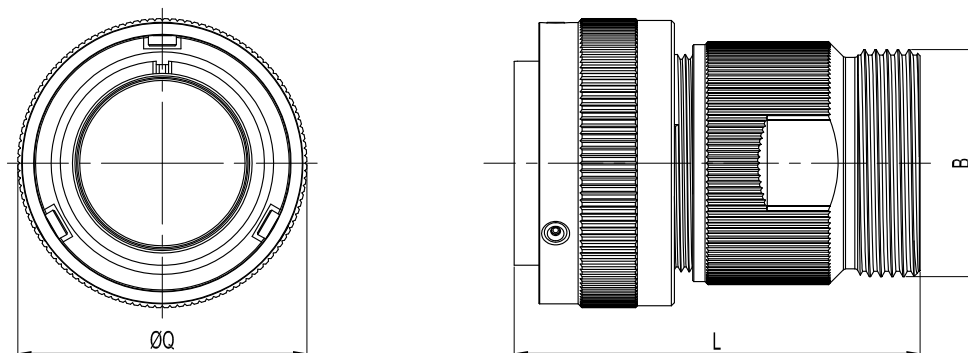
| Shell size | L Ref | Q Max |
|------------|-------|-------|
| 12         | 30.0  | 23.0  |
| 14S        | 45.0  | 29.5  |
| 16S        | 48.0  | 32.0  |
| 18         | 58.0  | 36.2  |
| 20         | 58.0  | 39.8  |
| 22         | 58.0  | 43.0  |
| 24         | 58.0  | 46.5  |
| 28         | 58.0  | 53.2  |
| 32         | 70.0  | 59.6  |
| 36         | 70.0  | 66.1  |
| 40         | 70.0  | 72.2  |

Dimension in mm

# STRAIGHT PLUG, RESISTANT TO HARSH ENVIRONMENT

ASVG06A - With threaded shell to accept backshell, without sealing grommet

ASVG06R - With threaded shell to accept backshell & sealing grommet



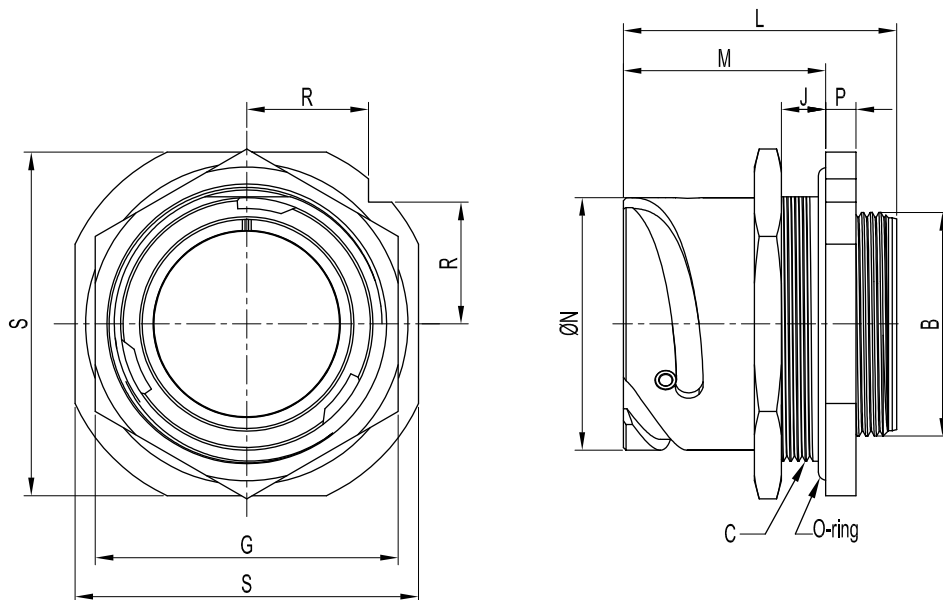
| Shell size | B Thread – 2A | L Ref | Q Max |
|------------|---------------|-------|-------|
| 14S        | 0.7500-20UNEF | 55.0  | 29.5  |
| 16S        | 0.8750-20UNEF | 60.0  | 32.0  |
| 18         | 1.0000-20UNEF | 65.0  | 36.2  |
| 20         | 1.1875-18UNEF | 65.0  | 39.8  |
| 22         | 1.1875-18UNEF | 65.0  | 43.0  |
| 24         | 1.4375-18UNEF | 65.0  | 46.5  |
| 28         | 1.4375-18UNEF | 70.0  | 53.2  |
| 32         | 1.7500-18UNS  | 70.0  | 59.6  |
| 36         | 2.0000-18UNS  | 70.0  | 66.1  |
| 40         | 2.2500-16UNS  | 70.0  | 72.2  |

Dimension in mm



Jam nut receptacle, rear mount

ASVG07A - With threaded shell to accept backshell, without sealing grommet



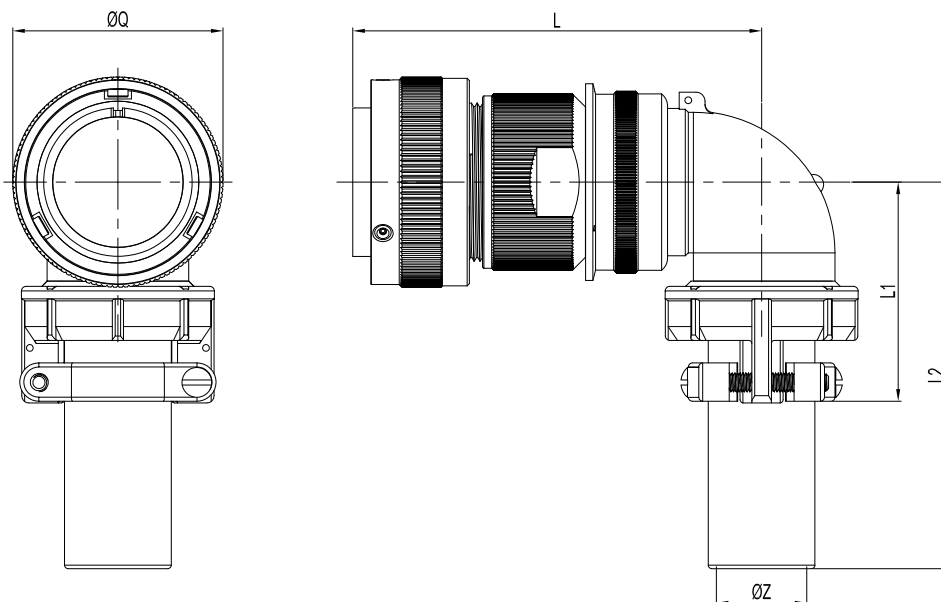
| Shell size | B Thread – 2A | C Thread – 2A | G ±0.5 | L Ref | M ±0.3 | N ±0.2 | J Wall thickness |      | P ±0.2 | R ±0.1 | S ±0.15 |
|------------|---------------|---------------|--------|-------|--------|--------|------------------|------|--------|--------|---------|
|            |               |               |        |       |        |        | Min.             | Max. |        |        |         |
| 12         | N/A           | 0.8750-20UNEF | 27.0   | 34.0  | 24.5   | 19.0   | 2.4              | 5.2  | 4.0    | N/A    | 31.8    |
| 14S        | 0.7500-20UNEF | 1.1250-18UNEF | 33.0   | 45.0  | 31.0   | 24.6   | 2.4              | 7.5  | 4.8    | 14.6   | 41.3    |
| 16S        | 0.8750-20UNEF | 1.2500-18UNEF | 38.0   | 45.0  | 31.0   | 27.4   | 2.4              | 7.5  | 4.8    | 15.7   | 44.4    |
| 18         | 1.0000-20UNEF | 1.3750-18UNEF | 40.0   | 55.0  | 34.0   | 30.8   | 2.4              | 9.0  | 4.8    | 16.8   | 47.6    |
| 20         | 1.1250-18UNEF | 1.5000-18UNEF | 44.0   | 55.0  | 34.0   | 34.2   | 2.4              | 9.0  | 4.8    | 18.0   | 50.8    |
| 22         | 1.2500-18UNEF | 1.6250-18UNEF | 51.0   | 55.0  | 34.0   | 37.4   | 2.4              | 9.0  | 4.8    | 20.2   | 54.2    |
| 24         | 1.3750-18UNEF | 1.7500-18UNEF | 51.0   | 55.0  | 34.0   | 40.8   | 2.4              | 9.0  | 4.8    | 20.2   | 57.2    |
| 28         | 1.6250-18UNEF | 2.0000-18UNS  | 56.0   | 58.0  | 35.5   | 46.6   | 2.4              | 9.0  | 5.6    | 22.5   | 63.5    |
| 32         | 1.8750-16UN   | 2.2500-16UN   | 62.0   | 58.0  | 35.5   | 53.3   | 2.4              | 9.0  | 5.6    | 24.7   | 69.8    |
| 36         | 2.0625-16UN   | 2.5000-16UN   | 71.0   | 58.0  | 35.5   | 59.5   | 2.4              | 8.0  | 5.6    | 26.9   | 76.2    |
| 40         | 2.3125-16UN   | 2.7500-16UN   | 75.0   | 58.0  | 35.5   | 65.5   | 2.4              | 8.0  | 5.6    | 29.6   | 82.5    |

Dimension in mm

**R/A PLUG**

ASVG08F - For cable, with sealing grommet

ASVG08AF - For cable, without sealing grommet



| Shell size | L Ref | L1 Ref | L2 Ref | Q Max | Z ±0.2 |
|------------|-------|--------|--------|-------|--------|
| 14S        | 70.0  | 30.0   | 90.0   | 29.5  | 9.0    |
| 16S        | 85.0  | 40.0   | 90.0   | 32.0  | 11.1   |
| 18         | 95.0  | 40.0   | 90.0   | 36.5  | 14.3   |
| 20         | 95.0  | 40.0   | 90.0   | 39.9  | 15.9   |
| 22         | 95.0  | 40.0   | 90.0   | 43.1  | 15.9   |
| 24         | 95.0  | 50.0   | 85.0   | 46.6  | 19.1   |
| 28         | 95.0  | 50.0   | 90.0   | 53.4  | 19.1   |
| 32         | 100.0 | 55.0   | 100.0  | 60.1  | 23.8   |
| 36         | 100.0 | 60.0   | 100.0  | 66.3  | 31.8   |
| 40         | 100.0 | 60.0   | 100.0  | 72.4  | 35.0   |

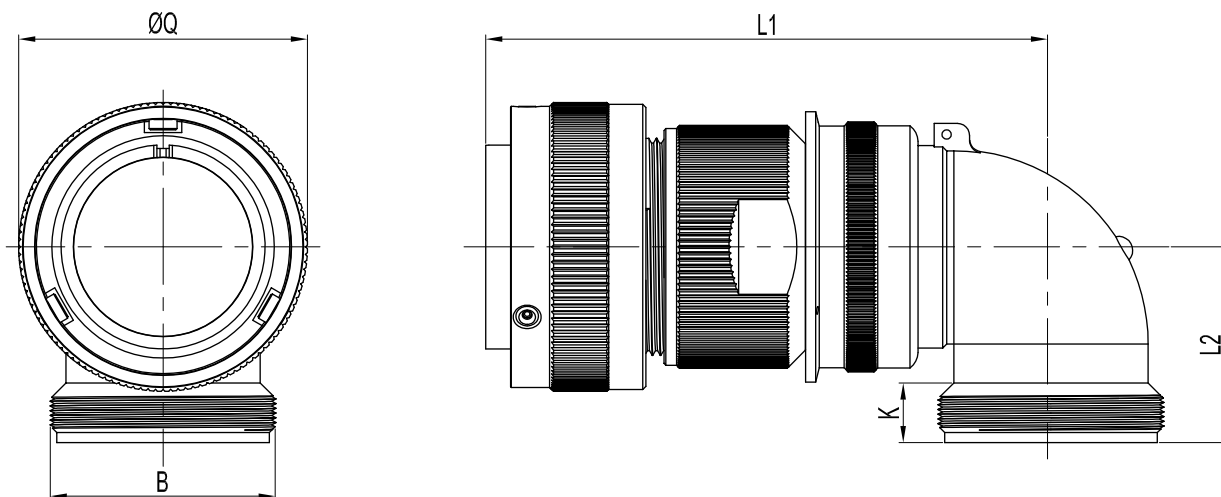
Dimension in mm

# ASVG08A ASVG08R

## R/A PLUG

ASVG08A - With threaded shell to accept backshell, without sealing grommet

ASVG08R - With threaded shell to accept backshell & sealing grommet

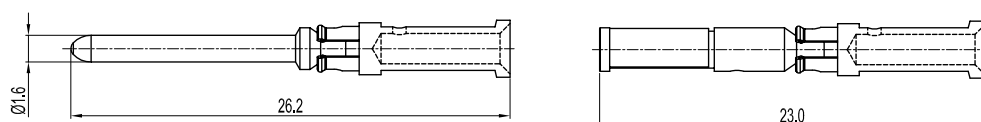


| Shell size | B Thread – 2A | L1 Ref | L2 Ref | Q Max | K ±0.2 |
|------------|---------------|--------|--------|-------|--------|
| 14S        | 0.7500-20UNEF | 70.0   | 30.0   | 29.5  | 9.0    |
| 16S        | 0.8750-20UNEF | 85.0   | 25.0   | 32.0  | 9.5    |
| 18         | 1.0000-20UNEF | 90.0   | 30.0   | 36.5  | 9.5    |
| 20         | 1.1875-18UNEF | 90.0   | 30.0   | 39.9  | 9.5    |
| 22         | 1.1875-18UNEF | 90.0   | 30.0   | 43.1  | 9.5    |
| 24         | 1.4375-18UNEF | 90.0   | 30.0   | 46.6  | 9.5    |
| 28         | 1.4375-18UNEF | 95.0   | 35.0   | 53.4  | 9.5    |
| 32         | 1.7500-18UNS  | 100.0  | 40.0   | 60.1  | 11.0   |
| 36         | 2.0000-18UNS  | 100.0  | 45.0   | 66.3  | 12.6   |
| 40         | 2.2500-16UNS  | 100.0  | 45.0   | 72.4  | 12.6   |

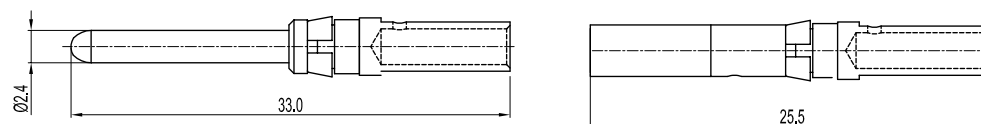
Dimension in mm

## CONTACTS

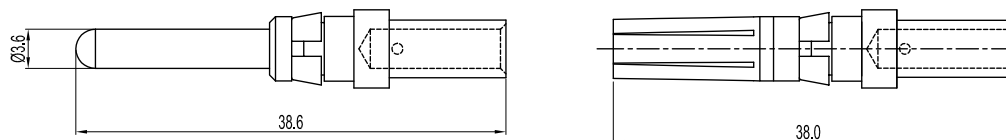
#16



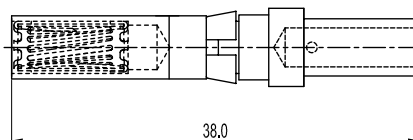
#12



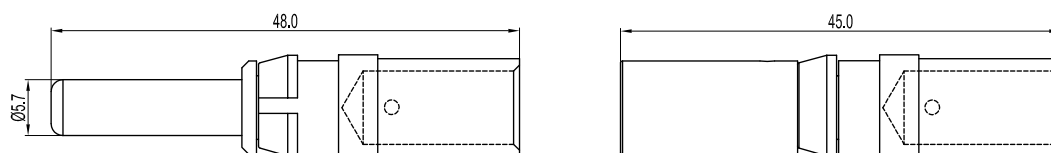
#8



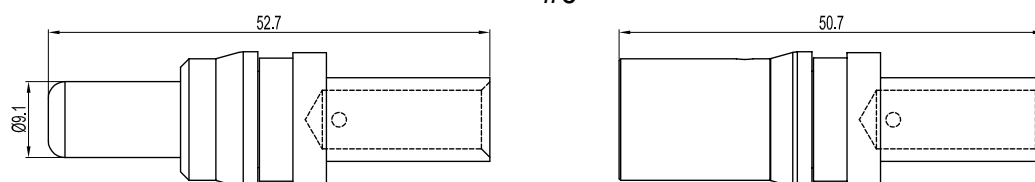
#8 (Radsok)



#4



#0



# CONTACTS

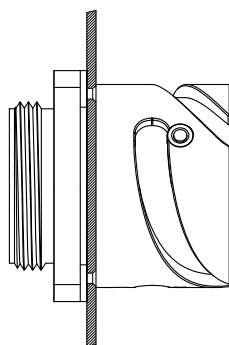
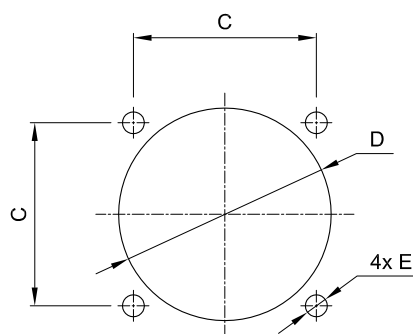


| Contact size | Pin contact P/N | Socket contact P/ N | Section of conductor (mm <sup>2</sup> ) | Plating | Crimp tools | Extraction tools |
|--------------|-----------------|---------------------|-----------------------------------------|---------|-------------|------------------|
| #16S **      | P01DM00222      | P01DM00223          | 0.5~1.0                                 | GOLD    | M22520/1-01 | ASVG-R-16        |
|              | P01DM0022201    | P01DM0022301        | 1.0~1.5                                 |         |             |                  |
| #16          | C52001305203    | C52001305303        | 0.15~0.6                                | GOLD    |             |                  |
|              | C52001305205    | C52001305305        | 0.5~1.0                                 |         |             |                  |
|              | C52001305206    | C52001305306        | 0.5~1.0                                 |         |             |                  |
|              | C52001305213    | C52001305313        | 0.15~0.6                                | SILVER  |             |                  |
|              | C52001305215    | C52001305315        | 0.5~1.0                                 |         |             |                  |
|              | C52001305216    | C52001305316        | 1.0~1.5                                 |         |             |                  |
| #12          | C42001305606    | C42001305706        | 1.0~1.5                                 | SILVER  | M22520/1-01 | ASVG-R-12        |
|              | C42001305601    | C42001305701        | 1.5~2.0                                 |         |             |                  |
|              | C420013056      | C420013057          | 2.5~4.0                                 |         |             |                  |
|              | C42001305605    | C42001305705        | 6.0                                     |         |             |                  |
|              | C42001305606G   | C42001305706G       | 1.0~1.5                                 | GOLD    | M22520/1-01 |                  |
|              | C42001305601G   | C42001305701G       | 1.5~2.0                                 |         |             |                  |
|              | C42001305603G   | C42001305704G       | 2.5~4.0                                 |         |             |                  |
|              | C42001305605G   | C42001305705G       | 6.0                                     |         |             |                  |
| #8           | C42001306201    | C42001306301        | 5.0~7.0                                 | SILVER  | M317        | ASVG-R-8         |
|              | C42001306202    | C42001306302        | 2.5~4.0                                 |         |             |                  |
|              | C42001306203    | C42001306303        | 10                                      |         |             |                  |
| #8(Radsok)   | -               | C420013058          | 5.0~7.0                                 | SILVER  | M317        | ASVG-R-8         |
| #4           | C42001309001    | C42001309101        | 22~25                                   | SILVER  | APHWA23KIT  | ASVG-R-4         |
|              | C42001309002    | C42001309102        | 10                                      |         |             |                  |
| #0           | C42001309402    | C42001309502        | 16                                      | SILVER  | APHWA23KIT  | ASVG-R-0         |
|              | C420013094      | C420013095          | 25                                      |         |             |                  |
|              | C42001309403    | C42001309503        | 35                                      |         |             |                  |
|              | C42001309401    | C42001309501        | 50                                      |         | APH1130-C2  |                  |
|              |                 |                     |                                         |         |             |                  |

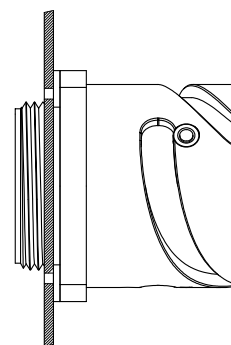
Note:

\*\* : Contact size 16S only for insert arrangement 12-04 & 14S-6.

# MOUNTING DIMENSIONS



REAR MOUNTED



FRONT MOUNTED

## FRONT MOUNTED (RECOMMENDED DIMENSIONS)

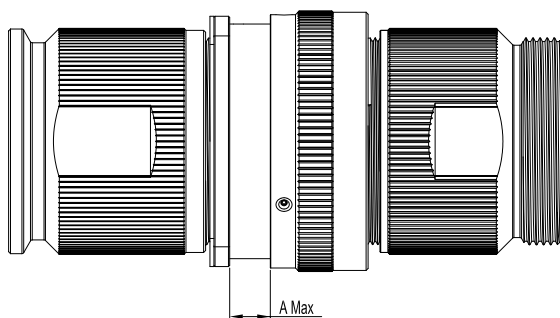
| Size                             | 12   | 14S | 16S  | 18   | 20   | 22   | 24   | 28   | 32   | 36   | 40   |
|----------------------------------|------|-----|------|------|------|------|------|------|------|------|------|
| C $\pm 0.2$                      | 20   | 23  | 24.6 | 27   | 29.4 | 31.8 | 34.9 | 39.7 | 44.5 | 49.2 | 55.5 |
| $\Phi D$                         | 16.5 | 20  | 23   | 26.5 | 30   | 33   | 36   | 42   | 48.5 | 55   | 61   |
| $\Phi E$<br>through-hole flange  | 3.4  | 3.4 | 3.4  | 3.4  | 3.4  | 3.4  | 3.9  | 3.9  | 4.5  | 4.5  | 4.5  |
| $\Phi E$<br>threaded-hole flange | N/A  | 4.5 | 4.5  | 4.5  | 4.5  | 4.5  | 5.5  | 5.5  | 5.5  | 5.5  | 5.5  |

## REAR MOUNTED (RECOMMENDED DIMENSIONS)

| Size                             | 12  | 14S  | 16S  | 18   | 20   | 22   | 24   | 28   | 32   | 36   | 40   |
|----------------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| C $\pm 0.2$                      | 20  | 23   | 24.6 | 27   | 29.4 | 31.8 | 34.9 | 39.7 | 44.5 | 49.2 | 55.5 |
| $\Phi D$                         | 20  | 25.5 | 28.3 | 31.7 | 35   | 38.3 | 41.8 | 47.6 | 54.3 | 60.5 | 66.4 |
| $\Phi E$<br>through-hole flange  | 3.4 | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 3.9  | 3.9  | 4.5  | 4.5  | 4.5  |
| $\Phi E$<br>threaded-hole flange | N/A | 4.5  | 4.5  | 4.5  | 4.5  | 4.5  | 4.5  | 5.5  | 5.5  | 5.5  | 5.5  |

Dimension in mm

## THICKNESS OF MOUNT PLATE (RECOMMENDED DIMENSIONS)



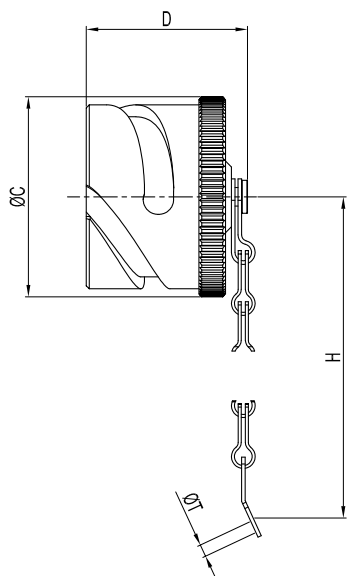
| Size | Thickness* | A max |
|------|------------|-------|
| 14S  | 5.0        | 8.5   |
| 16S  | 5.0        | 8.5   |
| 18   | 5.0        | 8.5   |
| 20   | 5.0        | 8.5   |
| 22   | 5.0        | 8.5   |
| 24   | 5.0        | 8.5   |
| 28   | 6.0        | 9.5   |
| 32   | 4.5        | 8.5   |
| 36   | 4.5        | 8.5   |
| 40   | 4.5        | 8.5   |

\* Note: The thickness of mount plate is affected by the specification of locking screw, recommended according to GB / T70.2-2008

## DUST CAPS

### Dust cap for plug (metal)

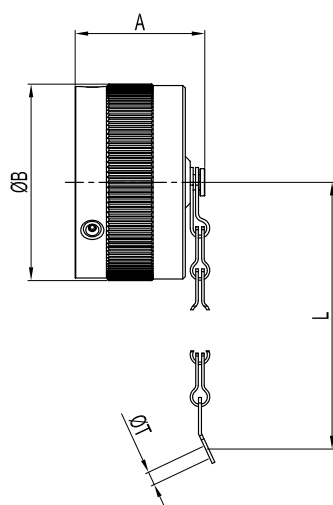
Dimension in mm



| Shell size | Dust caps for plug (metal) | H   | C    | D    | T   |
|------------|----------------------------|-----|------|------|-----|
| 14S        | ASVG2504214SCAPBA          | 125 | 27.5 | 26.0 | 3.5 |
| 16S        | ASVG2504216SCAPBA          | 125 | 30.0 | 26.0 | 3.5 |
| 18         | ASVG2504218CAPBA           | 125 | 34.0 | 27.0 | 3.5 |
| 20         | ASVG2504220CAPBA           | 125 | 37.0 | 27.0 | 3.5 |
| 22         | ASVG2504222CAPBA           | 125 | 40.3 | 27.0 | 3.5 |
| 24         | ASVG2504224CAPBA           | 125 | 44.0 | 28.6 | 4.5 |
| 28         | ASVG2504228CAPBA           | 125 | 50.0 | 28.6 | 4.5 |
| 32         | ASVG2504232CAPBA           | 125 | 56.0 | 30.2 | 5.5 |
| 36         | ASVG2504236CAPBA           | 125 | 63.0 | 30.2 | 5.5 |
| 40         | ASVG2504240CAPBA           | 125 | 68.5 | 30.2 | 5.5 |

Remark: black plating anodized. For other requirements, please contact us.

### Dust caps for receptacle (metal)



| Shell size | Dust cap for receptacle (metal) | L   | A    | B    | T   |
|------------|---------------------------------|-----|------|------|-----|
| 14S        | ASVG2504314SCAPBA               | 125 | 20.0 | 29.5 | 3.5 |
| 16S        | ASVG2504316SCAPBA               | 125 | 20.0 | 32.0 | 3.5 |
| 18         | ASVG2504318CAPBA                | 125 | 27.0 | 36.5 | 3.5 |
| 20         | ASVG2504320CAPBA                | 125 | 27.0 | 39.9 | 3.5 |
| 22         | ASVG2504322CAPBA                | 125 | 27.0 | 43.1 | 3.5 |
| 24         | ASVG2504324CAPBA                | 125 | 27.0 | 46.6 | 4.5 |
| 28         | ASVG2504328CAPBA                | 125 | 27.0 | 53.4 | 4.5 |
| 32         | ASVG2504332CAPBA                | 125 | 27.0 | 60.1 | 5.5 |
| 36         | ASVG2504336CAPBA                | 125 | 27.0 | 66.3 | 5.5 |
| 40         | ASVG2504340CAPBA                | 125 | 27.0 | 72.4 | 5.5 |

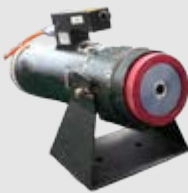
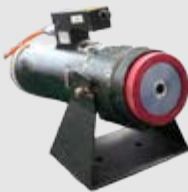


## SEALING PLUGS

| Contact size | Rear seal plug | Color | Insert seal plug | Color |
|--------------|----------------|-------|------------------|-------|
| #16          | C422013060     | Black | C422013050       | Black |
| #12          | C422013061     | Black | C427013052       | Black |
| #8           | C422013062     | Black | C422013051       | Black |
| #4           | C422013063     | Black | C422013053       | Black |
| #0           | C422013064     | Black | C427013054       | Black |

TOOLS

| Contact size | Section of conductor       | Crimping tool           | Extraction tool |
|--------------|----------------------------|-------------------------|-----------------|
| #16S, #16    | 0.15 to 1.5mm <sup>2</sup> | M22520/1-01             | ASVG-R-16       |
| #12          | 1.0 to 6.0mm <sup>2</sup>  | M317 or M22520/1-01     | ASVG-R-12       |
| #8           | 5.0 to 10.0mm <sup>2</sup> | APHWA23KIT or M317      | ASVG-R-8        |
| #4           | 10.0 to 25mm <sup>2</sup>  | APHWA23KIT              | ASVG-R-4        |
| #0           | 16 to 50mm <sup>2</sup>    | AHP1130C2 or APHWA23KIT | ASVG-R-0        |

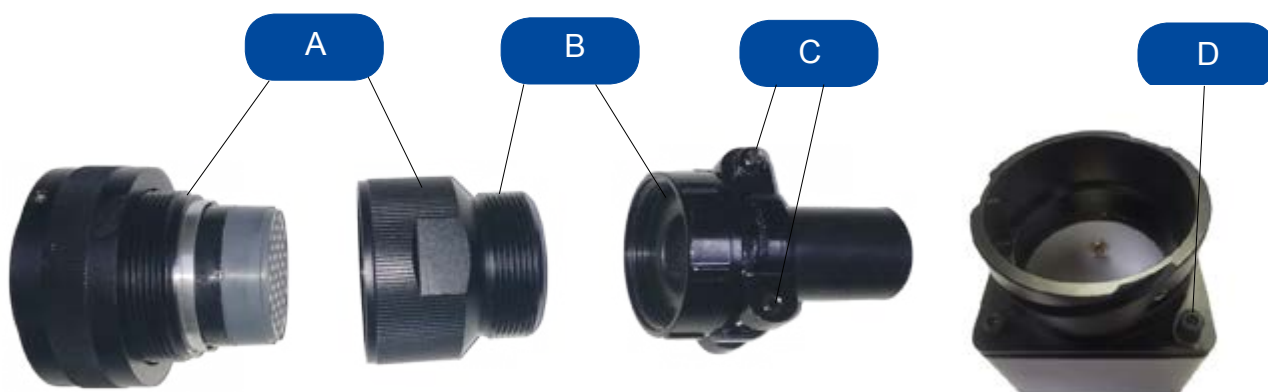
|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| #16 Crimping tool M22520/1-01                                                       | #16 Extraction tool ASVG-R-16                                                        |
|    |    |
| #12 Crimping tool M317                                                              | #12 Extraction tool ASVG-R-12                                                        |
|  |  |
| #8 Crimping tool APHWA23KIT                                                         | #8 Extraction tool ASVG-R-8                                                          |
|  |  |
| #4 Crimping tool APHWA23KIT                                                         | #4 Extraction tool ASVG-R-4                                                          |
|  |  |
| #0 Crimping tool AHP1130C2                                                          | #0 Extraction tool ASVG-R-0                                                          |
|  |  |



# TORQUE

## Torque

| Connector assembly torque / Nm |         |         |             |                                              |
|--------------------------------|---------|---------|-------------|----------------------------------------------|
| Shell size                     | A       | B       | C           | D                                            |
| 14S                            | 5 - 8   | 5 - 8   | 0.47 (M3)   | 0.5 (M3)<br>1.0 - 1.2 (M4)<br>2.0 - 2.3 (M5) |
| 16S                            | 6 - 9   | 6 - 9   | 0.73 (M3.5) |                                              |
| 18                             | 8 -10   | 10 - 12 |             |                                              |
| 20                             | 8 -10   | 10 - 12 | 1.08 (M4)   |                                              |
| 22                             | 10- 12  | 10 - 12 |             |                                              |
| 24                             | 12 -14  | 12 - 15 |             |                                              |
| 28                             | 14 - 16 | 12 - 15 |             |                                              |
| 32                             | 16 -18  | 12 - 15 | 2.28 (M5)   |                                              |
| 36                             | 18 -20  | 12 - 15 |             |                                              |
| 40                             | 20 -22  | 12 - 15 |             |                                              |





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### Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.