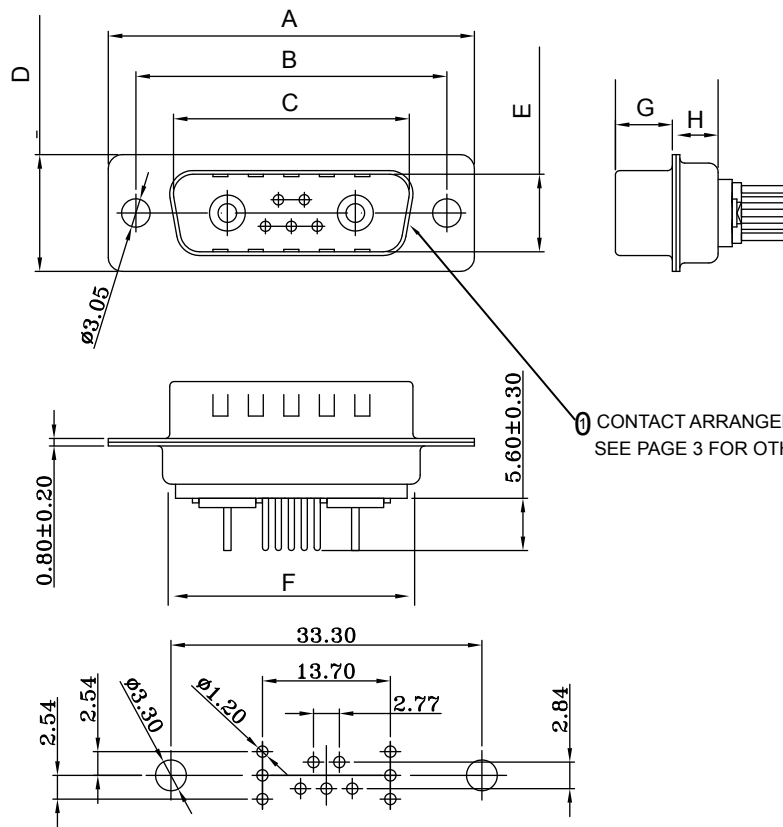
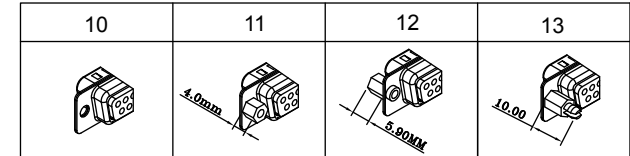




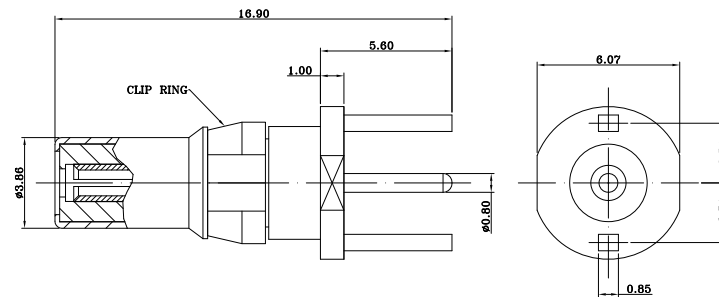
# SHELL SIZES

| Shell Size | A ± 0.20mm | B ± 0.15mm | C ± 0.20mm | D ± 0.20mm | E ± 0.20mm | F ± 0.20mm | G ± 0.20mm | H ± 0.15mm |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 9          | 30.8       | 25         | 16.3       | 12.5       | 7.9        | 19.25      | 5.8        | 4.1        |
| 15         | 39.2       | 33.3       | 24.6       | 12.5       | 7.9        | 27.7       | 5.8        | 4.1        |
| 25         | 53.05      | 47.05      | 38.4       | 12.5       | 7.9        | 41.2       | 5.8        | 4.1        |
| 37         | 69.4       | 63.5       | 54.8       | 12.5       | 7.9        | 57.5       | 5.8        | 4.1        |
| 50         | 67         | 61         | 52.2       | 15.3       | 10.9       | 55         | 6          | 4.1        |

TABLE 1 - MOUNTING OPTIONS - (See Mounting Options - Page 2)



For Mounting Options 11, 12 & 13 with Locktite installed on inside threads - replace the "1" with the letter L.  
Example: Option 11 with Locktite installed - use mounting option L1.



Coax Contact - Male

For Mounting Options 11, 12 & 13 with Locktite installed on inside threads - replace the "1" with the letter L.  
Example: Option 11 with Locktite installed - use mounting option L1.

## MATERIAL & FINISH:

Shell: Steel Material, Front Shell Tin Finished  
Back Shell Tin Finished  
Dimples on plug only  
Insulator: PBT Thermoplastic, 30% Glass Filled  
Signal Contact: Copper Alloy, Full Gold  
High Power Contact: Copper Alloy, 15u" Gold Plated

## ELECTRICAL:

High Power Contact Current Rating: 10,20,30,40 AMPS  
High Power Contact Resistance: 2.7 Milliohms MAX.  
Dielectric Withstanding Voltage: 1000 VAC For 1 Minute  
Insulation Resistance: 5000 Megaohms

## HOW TO ORDER:

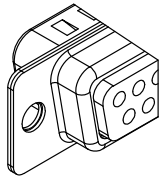
|                                                                          |          |                                                                     |          |          |   |                                                                                                                       |          |          |          |                                              |          |                                                                                                                               |          |                                     |          |          |   |                                                                                  |  |
|--------------------------------------------------------------------------|----------|---------------------------------------------------------------------|----------|----------|---|-----------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------|----------|----------|---|----------------------------------------------------------------------------------|--|
| <u>S</u>                                                                 | <u>X</u> | <u>4</u>                                                            | <u>2</u> | <u>0</u> | - | <u>X</u>                                                                                                              | <u>X</u> | <u>X</u> | <u>X</u> | -                                            | <u>X</u> | <u>X</u>                                                                                                                      | <u>X</u> | <u>X</u>                            | <u>X</u> | <u>0</u> | - | <u>Z</u>                                                                         |  |
| <u><b>COAX CONTACT</b></u><br>1 - 50 Ohm Coax<br>2 - 75Ohm Coax          |          | <u><b>ORIENTATION / FOOTPRINT</b></u><br>2 - Straight - PCB Mounted |          |          |   |                                                                                                                       |          |          |          | <u><b>MOUNTING OPTION</b></u><br>See Table 1 |          |                                                                                                                               |          |                                     |          |          |   | <u><b>RoHS COMPLIANT</b></u>                                                     |  |
| <u><b>SIGNAL &amp; COAX CONTACT</b></u><br>4 - Female Signal & Male Coax |          |                                                                     |          |          |   | <u><b>CONTACT ARRANGEMENT</b></u><br><u><b>SEE PAGE 3</b></u><br>Example: 2W2 = 02W2<br>Arrangement 7W2 Shown Above 0 |          |          |          |                                              |          | <u><b>SIGNAL CONTACT PLATING</b></u><br>1 - Full Au Flash<br>2 15 u" Au Over Ni<br>3 - 30 u"Au Over Ni<br>4 - 50 u"Au Over Ni |          | <u><b>POWER CONTACT PLATING</b></u> |          |          |   | <u><b>INSULATOR COLOR</b></u><br>1 - Black<br>2 - White<br>3 - Green<br>4 - Blue |  |

| Rev                                                                   | Drawn  | Checked | Approved | Date | SMP TECHNOLOGY, INC.                                   |  |
|-----------------------------------------------------------------------|--------|---------|----------|------|--------------------------------------------------------|--|
| 0                                                                     | Issued | B.S.    | S.M.     | S.M. |                                                        |  |
|                                                                       |        |         |          |      | Combo Coax + Signal D - Sub Connector; Vertical Mount, |  |
|                                                                       |        |         |          |      | Female Signal, Male Coax Contact                       |  |
| TOL. DEC. .X +/- 0.3 .XX +/- 0.20 .XXX +/- 0.10 ANGLE +/- 3° UNIT: mm |        |         |          |      | P/N: SX420-XXXX-XXXXX0-Z                               |  |

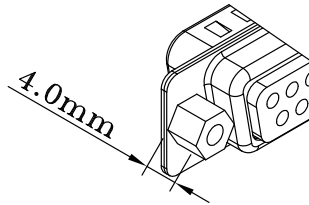
# MOUNTING OPTIONS

## POWER / COAX COMBO SERIES

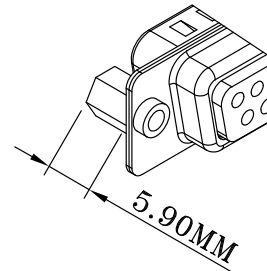
**MOUNTING OPTION 10:**  
3.05MM DIAMETER MOUNTING HOLE



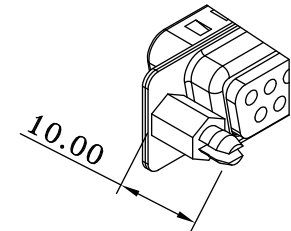
**MOUNTING OPTION 11 :**  
RIVETED 4-40 SCREW LOCK ON  
BACK SIDE OF SHELL



**MOUNTING OPTION 12 :**  
RIVETED 4-40 SCREW LOCK ON  
FRONT SIDE OF SHELL



**MOUNTING OPTION 13:**  
RIVETED 4-40 SCREW LOCK ON  
BACK SIDE OF SHELL



## SHELL SIZE

## CONTACT ARRANGEMENT

09



2WK2 (MALE)



2WK2 (FEMALE)



2W2



5W1

15



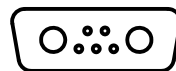
3WK3 (FEMALE)



3WK3 (MALE)



3W3

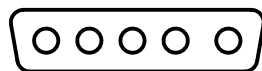


7W2

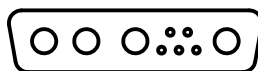


11W1

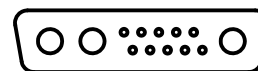
25



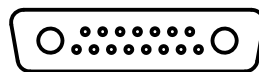
5W5



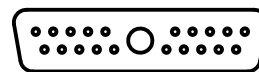
9W4



13W3



17W2



21W1

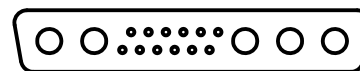
37



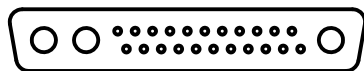
8W8



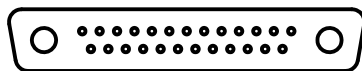
13W6



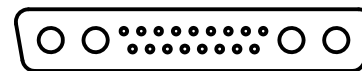
17W5



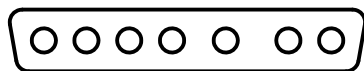
25W3



27W2

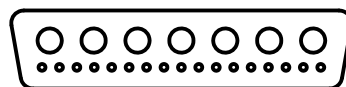


21W4

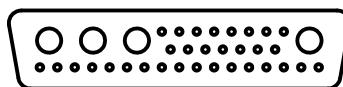


7W7

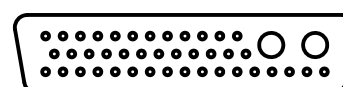
50



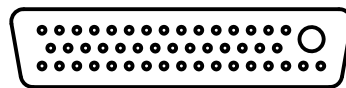
24W7



36W4



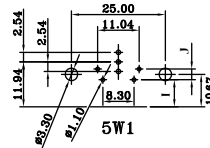
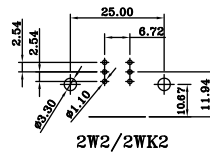
43W2



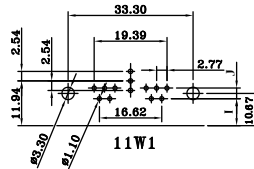
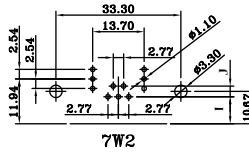
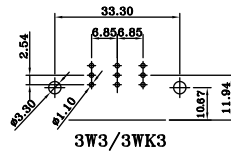
47W1

| Footprint (I) | J    |
|---------------|------|
| 9.4           | 2.54 |
| 7.2           | 2.84 |

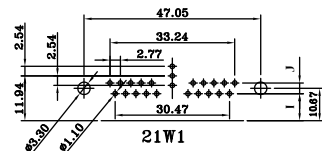
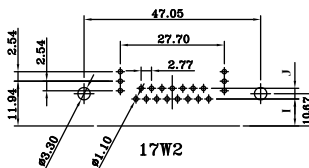
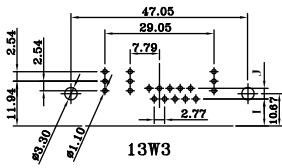
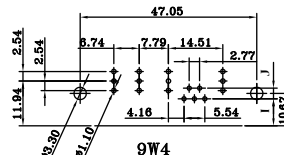
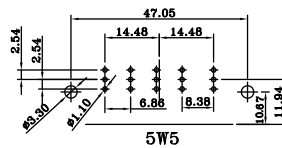
## SHELL 09



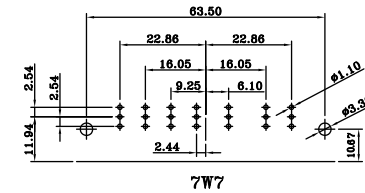
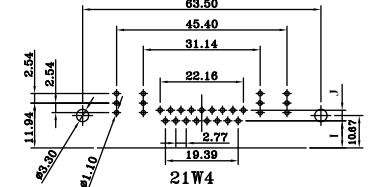
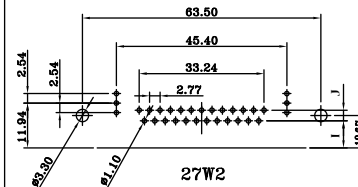
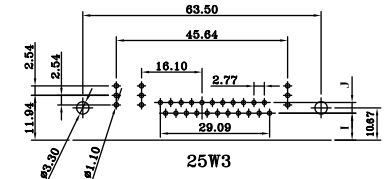
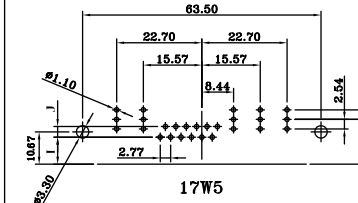
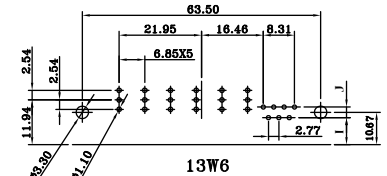
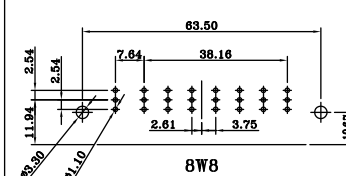
## SHELL 15



## SHELL 25



## SHELL 37



## SHELL 50

