

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC UL94V0
- CONTACT MATERIAL: BRASS (SIGNAL CONTACT)
- BRASS (POWERS CONTACT)
- ACCESSORIES: BRASS
- SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 7.5A (SIGNAL CONTACT)
- 30A or 40A (POWER CONTACT)
- CONTACT RESISTANCE: <=7.3 m Ohms(SIGNAL and POWER)
- CONTACT/CONTACT : >=1000 V
- CONTACT/GROUND : >=1200 V
- INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21
- TEMPERATURE RANGE -55°C TO +125°C
- DAMP HEAT STEADY STATE 21 DAYS
- SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m maximum
- Female screw : 0.5 N.m maximum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
  - Signal contacts: Ni + Gold/GxT
  - Power contacts: Ni 1.27µmi+Sn 2.5 to 7.5µ,pure bright
- Active area plating spec:
  - Signal and power contacts: Ni + Gold/GxT
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

Series

Shell size: **E A B C**  
(see sheet 3)

Front accessory definition  
(see sheet 2)

- blank**:without accessory
- L** :threaded insert M3
- O** :threaded insert UNC 4-40
- V** :female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts  
**P** Pin

Termination type  
**5** Right angle/Europe standard

Plating  
**00** 200 matings/unmatings  
**43** 500 matings/unmatings

PCB accessories definition(see sheet 2)  
**A** :without accessory  
**H** :Metal brackets+harpoons for PCB 2.40mm  
**G** :Metal brackets+harpoons for PCB 1.60mm  
**M** :Metal brackets

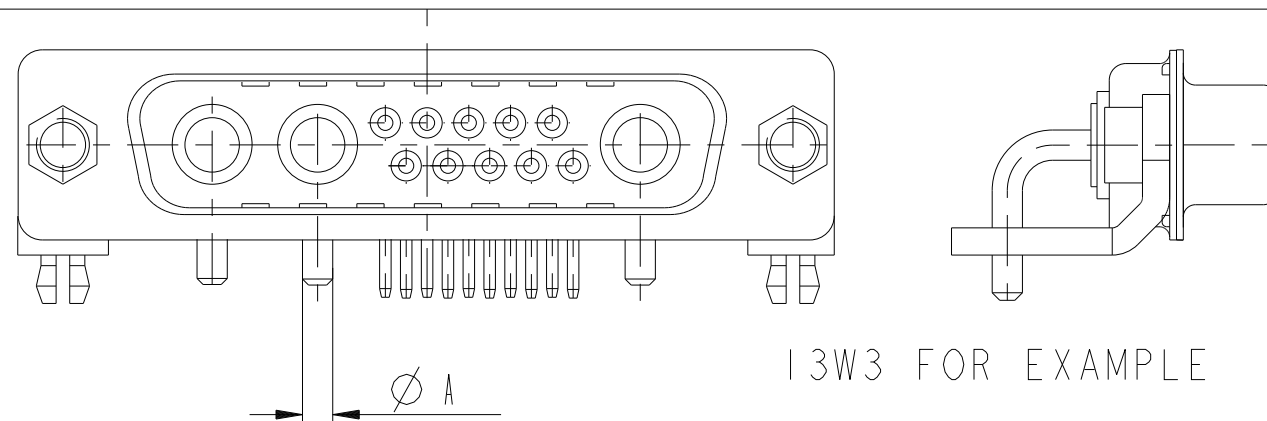
Power contacts  
**30** :Fitted with power contacts 30 Amp.  
**40** :Fitted with power contacts 40 Amp.

DBL13W3P500G30LF

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

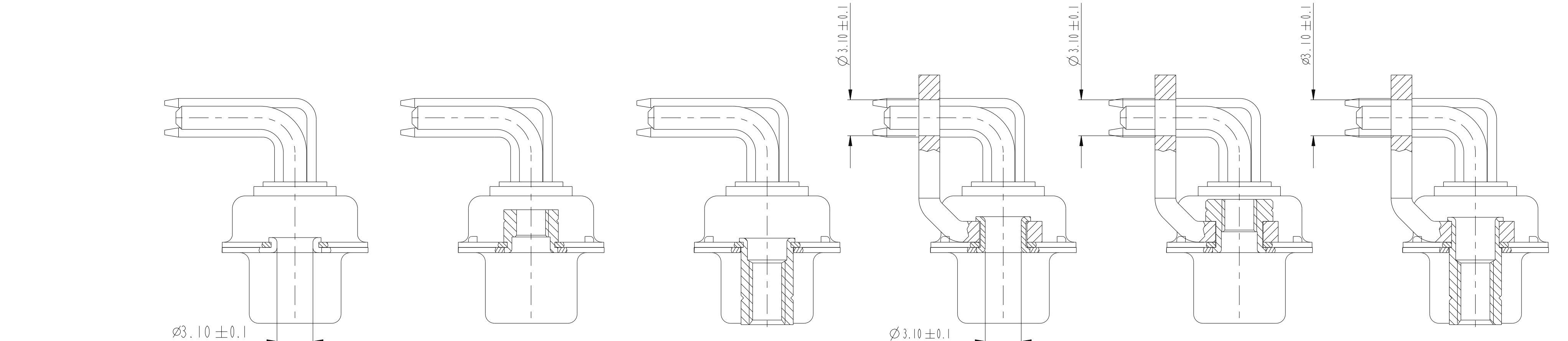
| POWER CONTACTS    |         |                | ACCESSORIES    | SIGNAL CONTACT |
|-------------------|---------|----------------|----------------|----------------|
| 30 A              | 2.00    | Ø2.40          | Ø3.10          | Ø1.00          |
| 40 A              | 2.80    | Ø3.10          |                |                |
| Max current Power | ØA±0.10 | PCB HOLE ±0.10 | PCB HOLE ±0.10 | PCB HOLE ±0.10 |



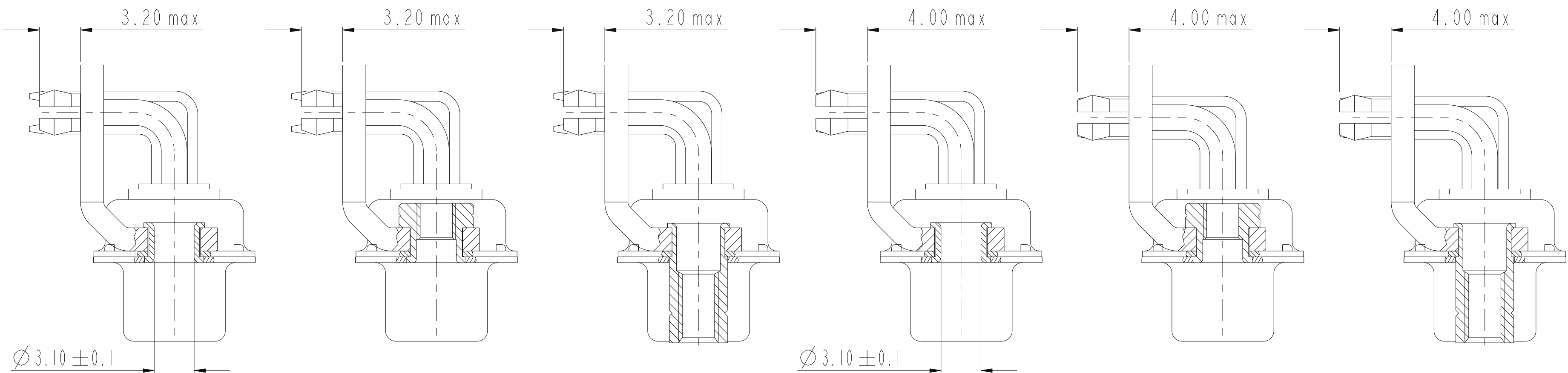
|                     |  |         |       |                |            |                 |                               |        |                        |                |              |     |
|---------------------|--|---------|-------|----------------|------------|-----------------|-------------------------------|--------|------------------------|----------------|--------------|-----|
| spec ref            |  | dr      |       | 1, Product Eng | 2015/06/16 | projection<br>  | mm<br>                        | size   | A2                     | scale          | 1:1          |     |
| tolerance std       |  | eng     |       | Gregar Mathew  | 2019/11/11 |                 |                               | ecn no | ELX-1-33009-1          |                |              |     |
| ISO 1101<br>ISO 406 |  | chr     |       | -              | -          |                 |                               |        | Released               |                |              |     |
|                     |  | appr    |       | Varma Sudhir   | 2019/11/12 | product family  |                               | -      |                        |                |              |     |
| surface             |  | linear  | 0.X   |                | ±0.3       | Amphenol<br>FCI | SUB MALE DW EUROPE FOOT PRINT |        | dwg no                 | C01-8639-2304c |              | rev |
|                     |  |         | 0.XX  |                | ±0.10.10   |                 |                               |        |                        |                |              |     |
|                     |  |         | 0.XXX |                | ±0.05      |                 |                               |        |                        |                |              |     |
| ISO 1302            |  | angular | 0°    |                | ±2°        | cat. no.        |                               | -      | Product - Customer Drw |                | sheet 1 of 7 |     |

Amphenol  
FCi

© 2016 AFCI



|                 |               |                                  |                   |                  |                                  |                   |
|-----------------|---------------|----------------------------------|-------------------|------------------|----------------------------------|-------------------|
| FRONT ACCESSORY | Blank Without | L insert M3<br>O insert UNC 4.40 | V insert UNC 4.40 | Blank Without    | L insert M3<br>O insert UNC 4.40 | V insert UNC 4.40 |
| PCB ACCESSORIES | A Without     | A Without                        | A Without         | M Metal brackets | M Metal brackets                 | M Metal bracket   |



|                 |                                               |                                               |                                               |                                               |                                               |                                               |
|-----------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| FRONT ACCESSORY | Blank Without                                 | L insert M3<br>O insert UNC 4.40              | V insert UNC 4.40                             | Blank Without                                 | L insert M3<br>O insert UNC 4.40              | V insert UNC 4.40                             |
| PCB ACCESSORIES | G Metal brackets +<br>harpoons for PCB 1.60mm | G Metal brackets +<br>harpoons for PCB 1.60mm | G Metal brackets +<br>harpoons for PCB 1.60mm | H Metal brackets +<br>harpoons for PCB 2.40mm | H Metal brackets +<br>harpoons for PCB 2.40mm | H Metal brackets +<br>harpoons for PCB 2.40mm |

|               |          |                                       |       |                 |                |                               |                |    |      |    |           |                |                               |   |                       |  |
|---------------|----------|---------------------------------------|-------|-----------------|----------------|-------------------------------|----------------|----|------|----|-----------|----------------|-------------------------------|---|-----------------------|--|
| spec ref      |          |                                       | dr    |                 | 1, Product Eng | 2015/06/16                    | projection     | mm | size | A2 | scale     | 3:1            |                               |   |                       |  |
| tolerance std |          | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng   |                 | Gregar Mathew  | 2019/11/11                    |                |    |      |    | ecn no    | ELX-133009-1   |                               |   |                       |  |
| ISO 1101      |          |                                       | chr   |                 | -              | -                             | product family | -  |      |    | rel level | Released       |                               |   |                       |  |
| ISO 1101      |          |                                       | appr  |                 | Varma Sudhir   | 2019/11/12                    |                |    | -    | -  |           | -              | -                             | - |                       |  |
| ISO 406       |          |                                       |       |                 |                |                               |                |    |      |    |           |                |                               |   |                       |  |
| surface       | linear   | 0.X                                   | ±0.30 | Amphenol<br>FCI | title          | SUB MALE DW EUROPE FOOT PRINT |                |    |      |    | dwg no    | C01-8639-2304c | rev                           |   |                       |  |
|               |          | 0.XX                                  | ±0.10 |                 |                |                               |                |    |      |    |           |                |                               |   |                       |  |
|               |          | 0.XXX                                 | ±0.05 |                 |                |                               |                |    |      |    |           |                |                               |   |                       |  |
|               | ISO 1302 | angular                               | 0°    |                 |                | ±°2                           | cat. no.       |    |      |    |           |                |                               | - | Product- Customer Drw |  |
|               |          |                                       |       |                 |                |                               |                |    |      |    |           |                | MIXED POWER RIGHT ANGL SOLDER |   | E                     |  |

| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxP500A30LF  | 30   | 200                   | without               | without                          |
| D*LxWxP500A30LF | 30   | 200                   | insert M3             | without                          |
| D*OxWxP500A30LF | 30   | 200                   | insert UNC 4.40       | without                          |
| D*VxWxP500A30LF | 30   | 200                   | female screw UNC 4.40 | without                          |
| D*xWxP500H30LF  | 30   | 200                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxP500H30LF | 30   | 200                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxP500H30LF | 30   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxP500H30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxP500G30LF  | 30   | 200                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxP500G30LF | 30   | 200                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxP500G30LF | 30   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxP500G30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxP500M30LF  | 30   | 200                   | without               | metal bracket                    |
| D*LxWxP500M30LF | 30   | 200                   | insert M3             | metal bracket                    |
| D*OxWxP500M30LF | 30   | 200                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxP500M30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket                    |

| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxP500A40LF  | 40   | 200                   | without               | without                          |
| D*LxWxP500A40LF | 40   | 200                   | insert M3             | without                          |
| D*OxWxP500A40LF | 40   | 200                   | insert UNC 4.40       | without                          |
| D*VxWxP500A40LF | 40   | 200                   | female screw UNC 4.40 | without                          |
| D*xWxP500H40LF  | 40   | 200                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxP500H40LF | 40   | 200                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxP500H40LF | 40   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxP500H40LF | 40   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxP500G40LF  | 40   | 200                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxP500G40LF | 40   | 200                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxP500G40LF | 40   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxP500G40LF | 40   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxP500M40LF  | 40   | 200                   | without               | metal bracket                    |
| D*LxWxP500M40LF | 40   | 200                   | insert M3             | metal bracket                    |
| D*OxWxP500M40LF | 40   | 200                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxP500M40LF | 40   | 200                   | female screw UNC 4.40 | metal bracket                    |

shell size  
\*  
E  
A  
A  
B  
B  
B  
C  
C  
C

LAYOUTS  
xWx  
5W1  
11W1  
7W2  
21W1  
17W2  
13W3  
9W4  
25W3  
21WA4  
27W2

| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxP543A30LF  | 30   | 500                   | without               | without                          |
| D*LxWxP543A30LF | 30   | 500                   | insert M3             | without                          |
| D*OxWxP543A30LF | 30   | 500                   | insert UNC 4.40       | without                          |
| D*VxWxP543A30LF | 30   | 500                   | female screw UNC 4.40 | without                          |
| D*xWxP543H30LF  | 30   | 500                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxP543H30LF | 30   | 500                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxP543H30LF | 30   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxP543H30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxP543G30LF  | 30   | 500                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxP543G30LF | 30   | 500                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxP543G30LF | 30   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxP543G30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxP543M30LF  | 30   | 500                   | without               | metal bracket                    |
| D*LxWxP543M30LF | 30   | 500                   | insert M3             | metal bracket                    |
| D*OxWxP543M30LF | 30   | 500                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxP543M30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket                    |

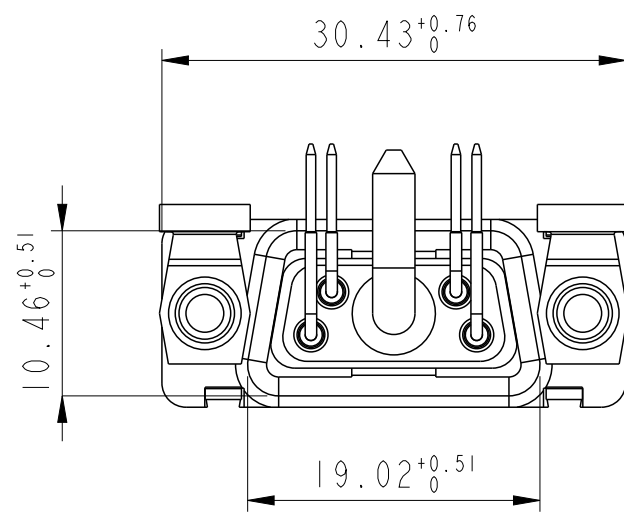
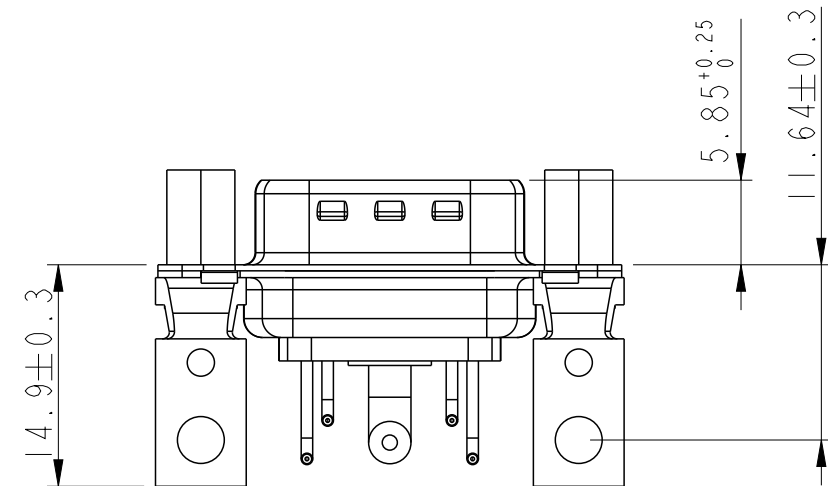
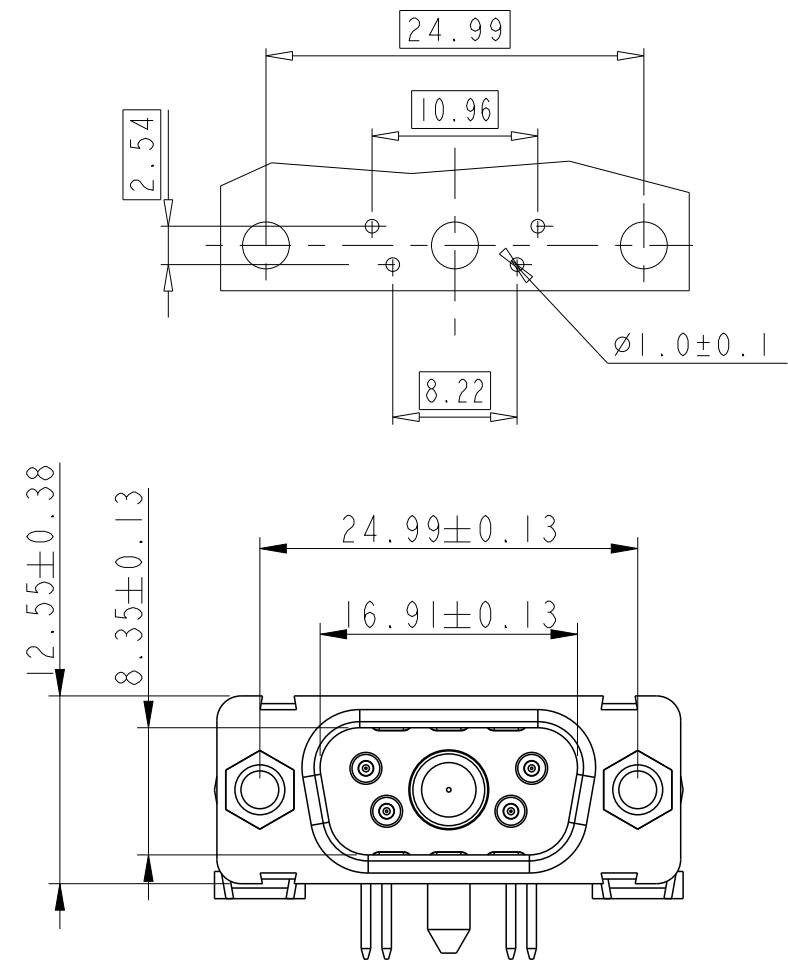
| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxP543A40LF  | 40   | 500                   | without               | without                          |
| D*LxWxP543A40LF | 40   | 500                   | insert M3             | without                          |
| D*OxWxP543A40LF | 40   | 500                   | insert UNC 4.40       | without                          |
| D*VxWxP543A40LF | 40   | 500                   | female screw UNC 4.40 | without                          |
| D*xWxP543H40LF  | 40   | 500                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxP543H40LF | 40   | 500                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxP543H40LF | 40   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxP543H40LF | 40   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxP543G40LF  | 40   | 500                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxP543G40LF | 40   | 500                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxP543G40LF | 40   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxP543G40LF | 40   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxP543M40LF  | 40   | 500                   | without               | metal bracket                    |
| D*LxWxP543M40LF | 40   | 500                   | insert M3             | metal bracket                    |
| D*OxWxP543M40LF | 40   | 500                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxP543M40LF | 40   | 500                   | female screw UNC 4.40 | metal bracket                    |

|                                                  |  |         |        |                                                                                       |            |                                                                                       |                                                                                       |                        |               |              |     |       |       |
|--------------------------------------------------|--|---------|--------|---------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------|---------------|--------------|-----|-------|-------|
| spec ref                                         |  | dr      |        | 1, Product Eng                                                                        | 2015/06/16 |  |  | size                   | A2            | scale        | 3:1 |       |       |
| tolerance std                                    |  | eng     |        | Gregar Mathew                                                                         | 2019/11/11 |                                                                                       |                                                                                       | ecn no                 | ELX-I-33009-1 |              |     |       |       |
| ISO 1101                                         |  | chr     |        | -                                                                                     | -          |                                                                                       |                                                                                       | rel level              |               |              |     |       |       |
| ISO 406                                          |  | appr    |        | Varma Sudhir                                                                          | 2019/11/12 |                                                                                       |                                                                                       | Released               |               |              |     |       |       |
| <div>TOLERANCES UNLESS OTHERWISE SPECIFIED</div> |  | surface | linear |  |            | SUB MALE DW EUROPE FOOT PRINT                                                         |                                                                                       | C01-8639-2304c         |               | rev          |     |       |       |
|                                                  |  |         |        |                                                                                       |            |                                                                                       |                                                                                       |                        |               |              |     | 0.X   | ±0.30 |
|                                                  |  |         |        |                                                                                       |            |                                                                                       |                                                                                       |                        |               |              |     | 0.XX  | ±0.10 |
|                                                  |  |         |        |                                                                                       |            |                                                                                       |                                                                                       |                        |               |              |     | 0.XXX | ±0.05 |
| ISO 1302                                         |  | angular | 0°     | ±2°                                                                                   | cat. no.   |                                                                                       | -                                                                                     | Product - Customer Drw |               | sheet 3 of 7 |     |       |       |

5W1

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

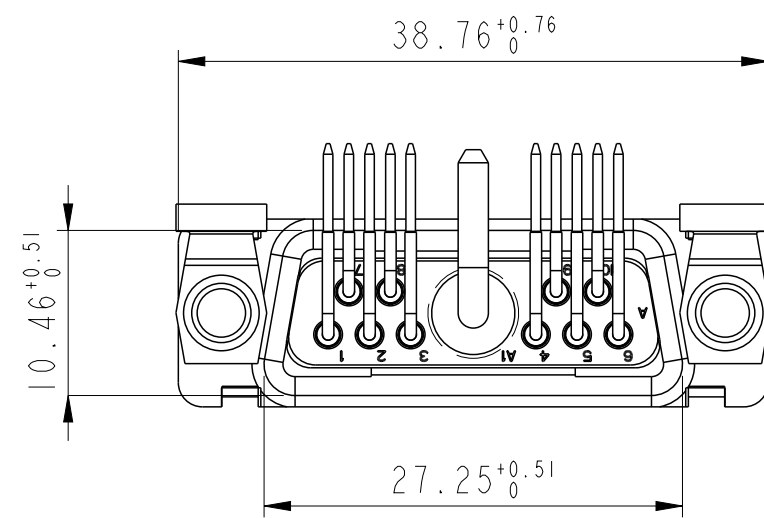
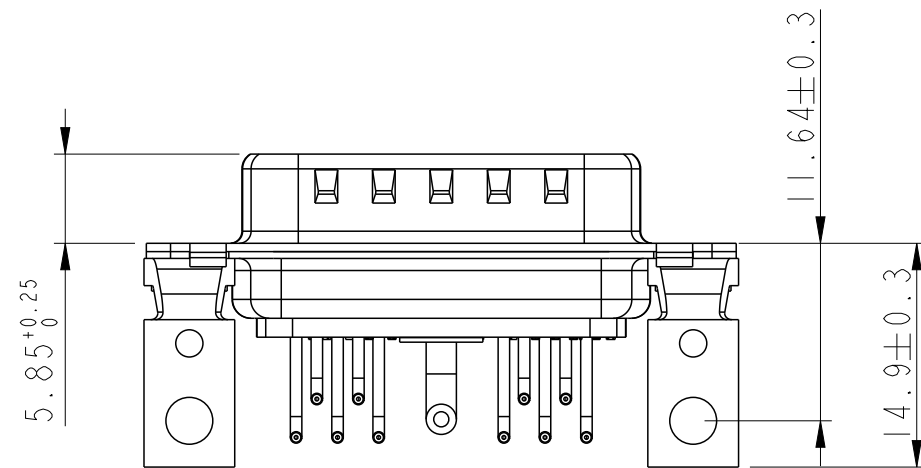
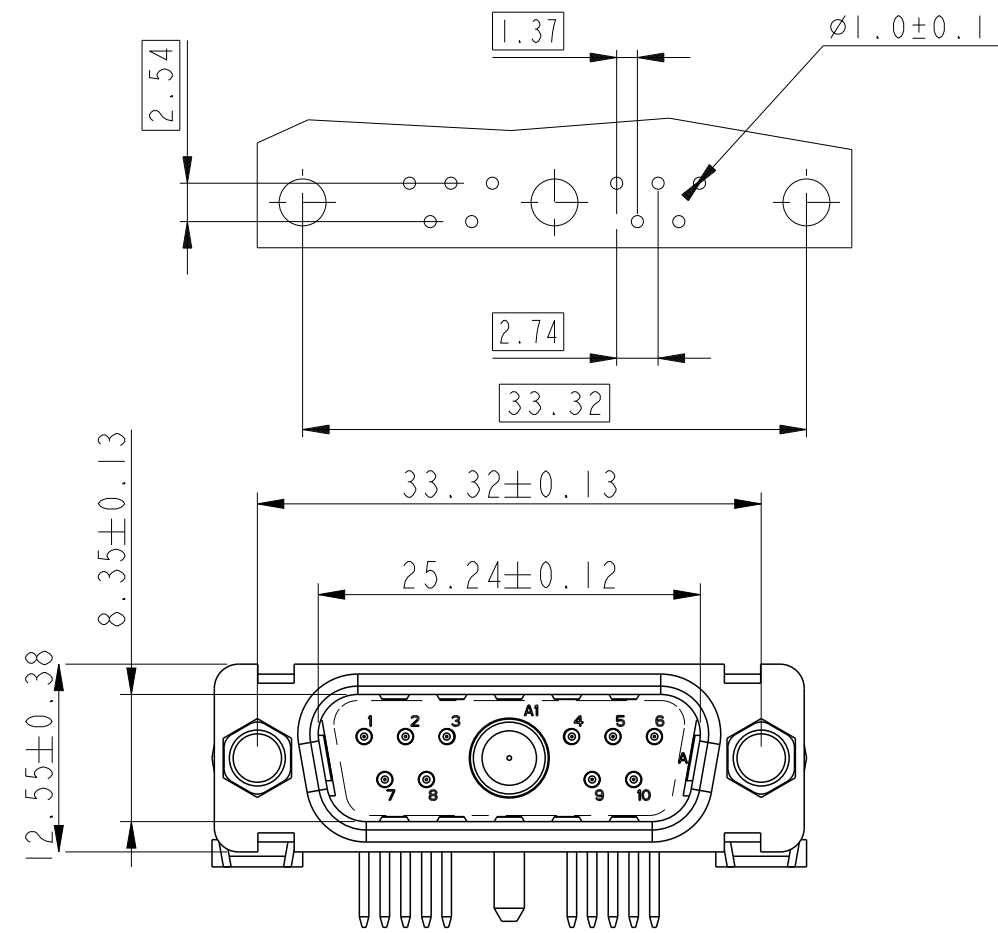


Floating signal contacts

11W1

LAYOUT AND CONNECTOR DIMENSIONS

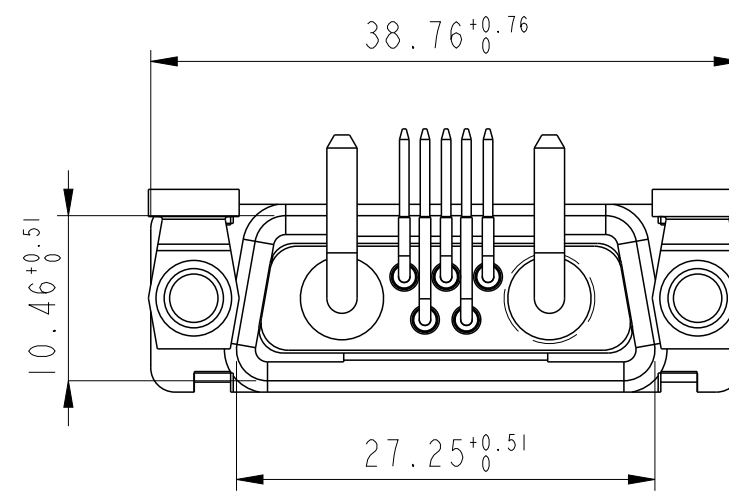
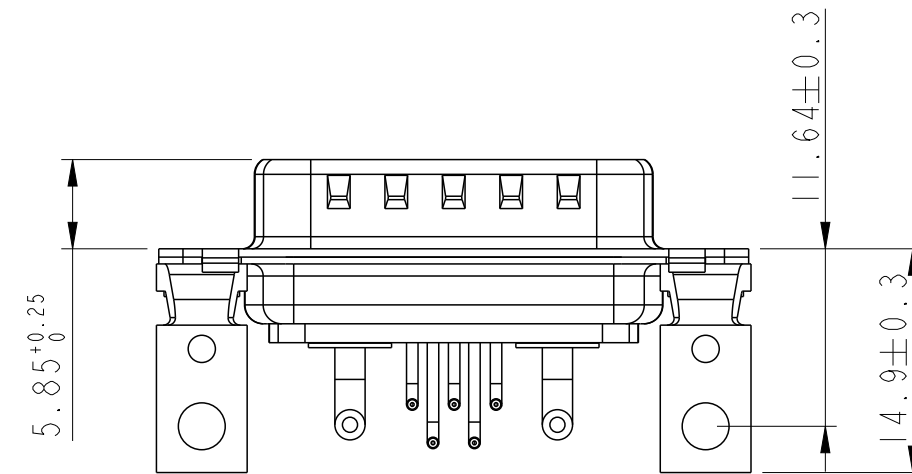
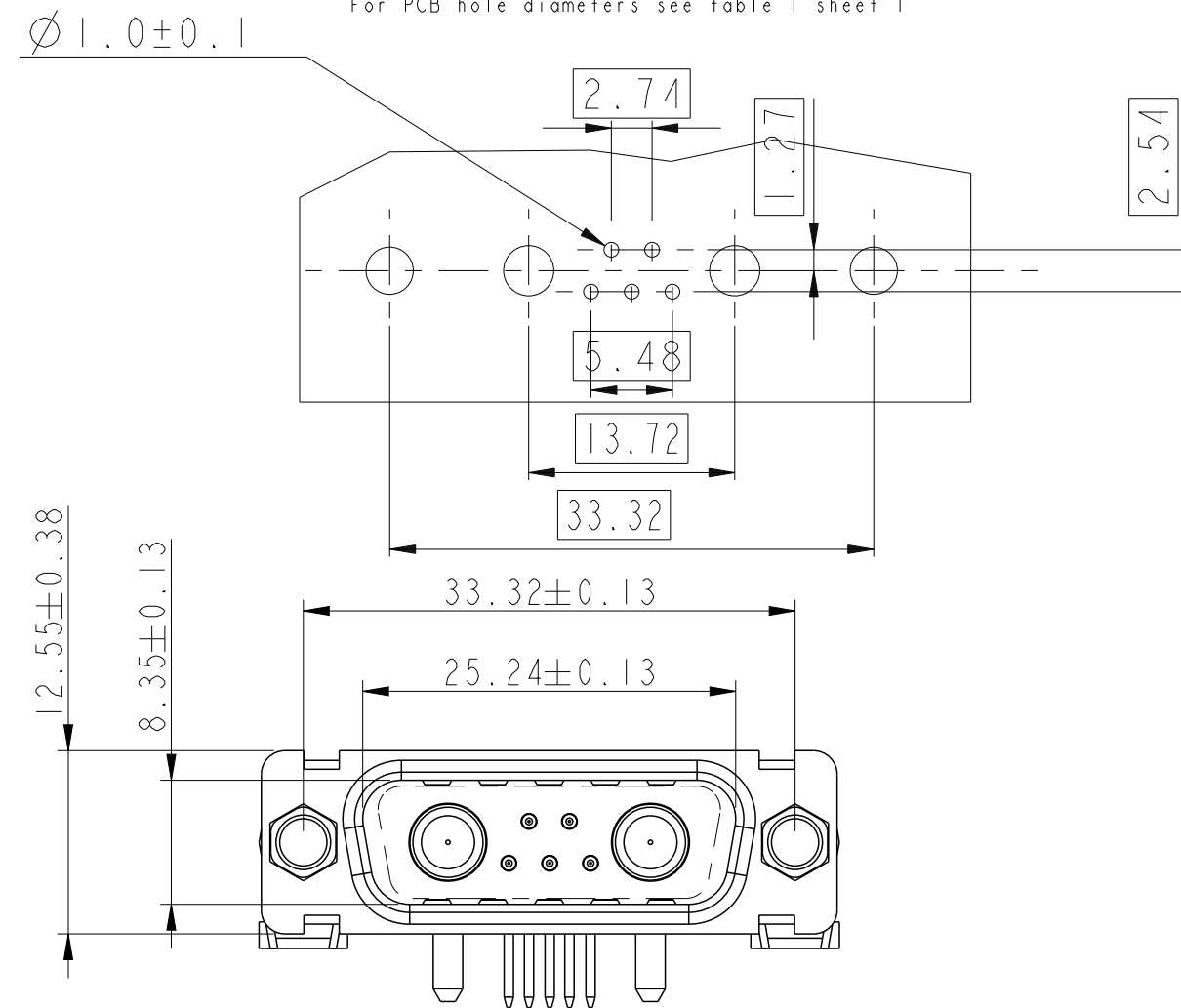
For PCB hole diameters see table I sheet I



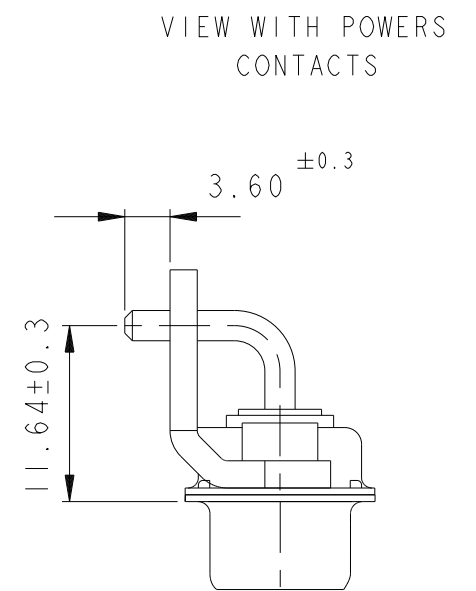
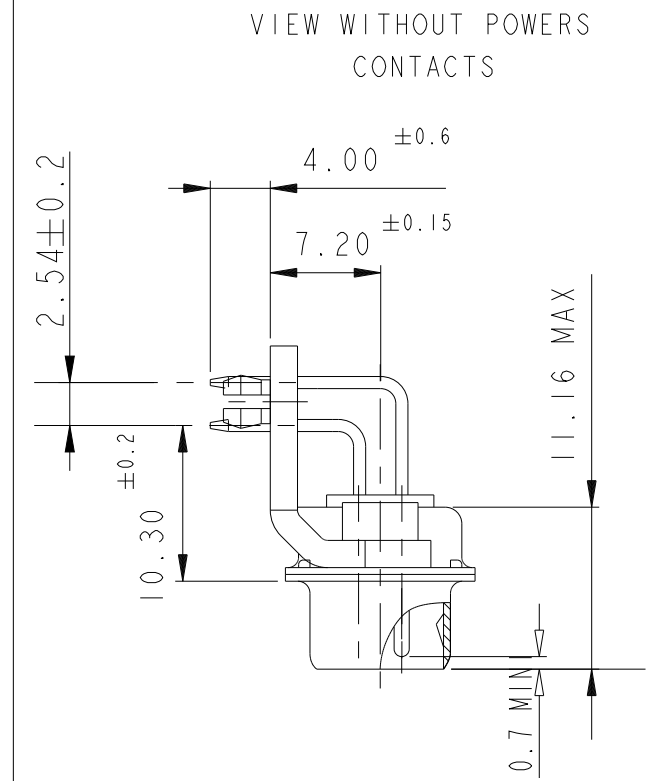
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



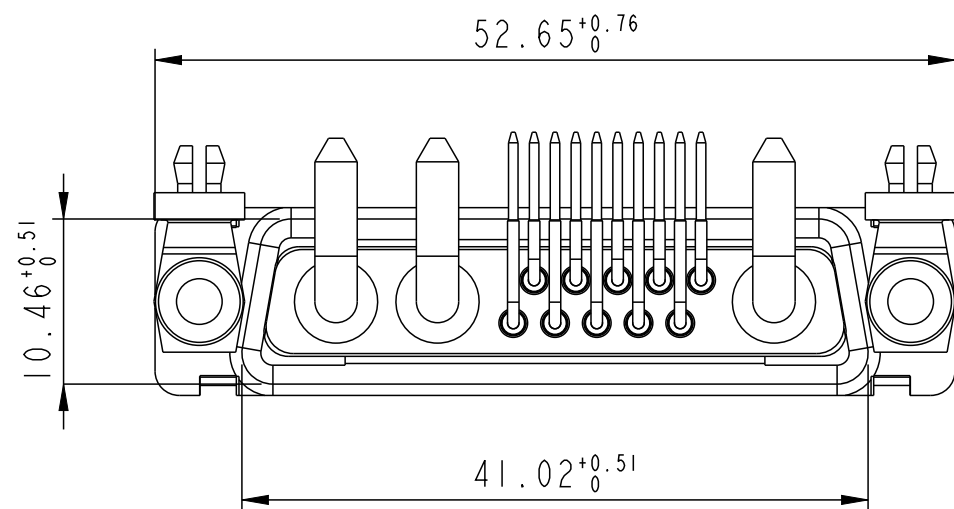
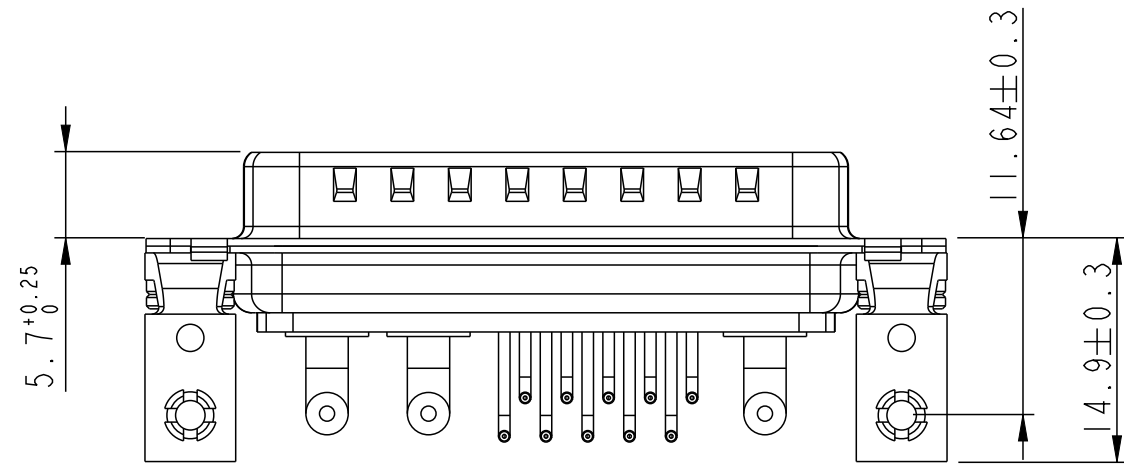
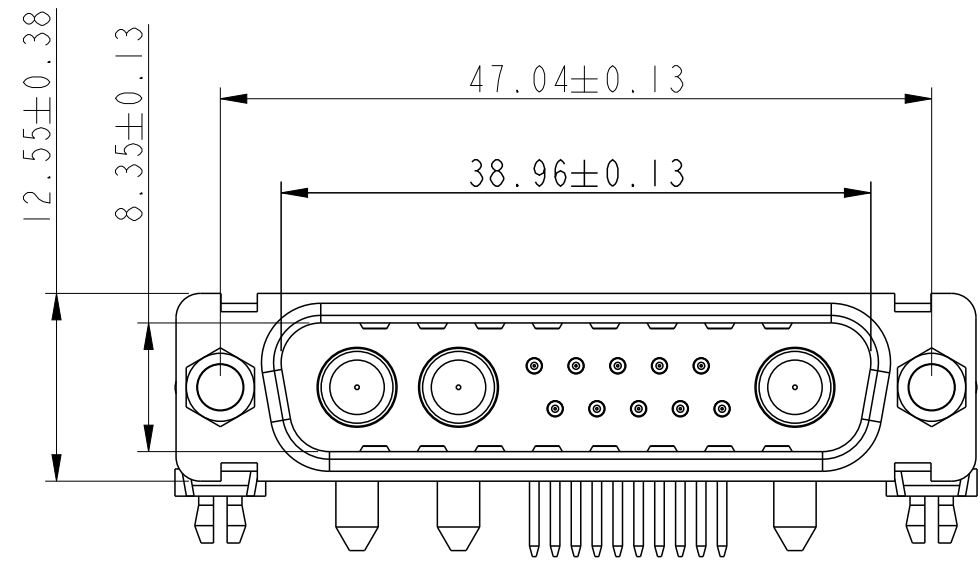
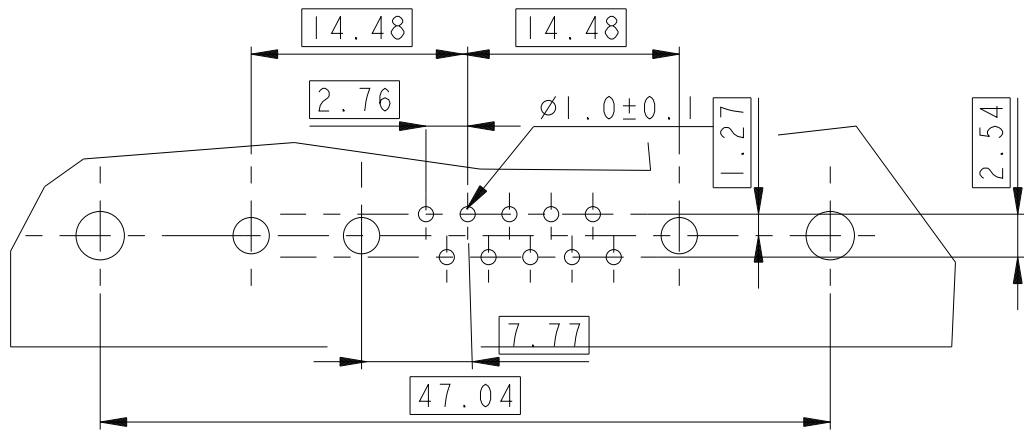
SIDE VIEW FOR ALL LAYOUTS



|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|---------------------|--|---------|--|-----------------|--|------------|--|-------------------------------|--|--------|--|----------------|--|--------------|--|-------|--|
| spec ref            |  | dr      |  | 1, Product Eng  |  | 2015/06/16 |  | projection                    |  | mm     |  | size           |  | scale        |  |       |  |
| tolerance std       |  | eng     |  | Gregar Mathew   |  | 2019/11/11 |  |                               |  |        |  | A2             |  | 2:1          |  |       |  |
| ISO 1101<br>ISO 406 |  | chr     |  | -               |  | -          |  |                               |  |        |  | ecn no         |  | ELX-133009-1 |  |       |  |
|                     |  | appr    |  | Varma Sudhir    |  | 2019/11/12 |  | product family                |  | D SUB  |  | rel level      |  | Released     |  |       |  |
| surface             |  | linear  |  | Amphenol<br>FCi |  | title      |  | SUB MALE DW EUROPE FOOT PRINT |  | dwg no |  | C01-8639-2304c |  | rev          |  |       |  |
|                     |  | 0.X     |  |                 |  |            |  |                               |  |        |  |                |  |              |  | ±0.30 |  |
|                     |  | 0.XX    |  |                 |  |            |  |                               |  |        |  |                |  |              |  | ±0.10 |  |
| ISO 1302            |  | angular |  |                 |  | 0.XXX      |  | ±0.05                         |  |        |  |                |  |              |  |       |  |
|                     |  | 0°      |  |                 |  | ±2°        |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |
|                     |  |         |  |                 |  |            |  |                               |  |        |  |                |  |              |  |       |  |

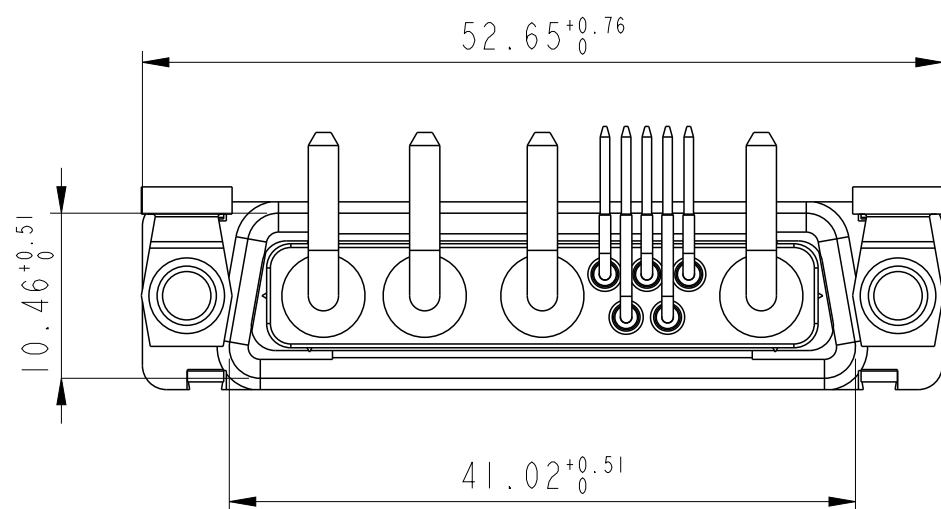
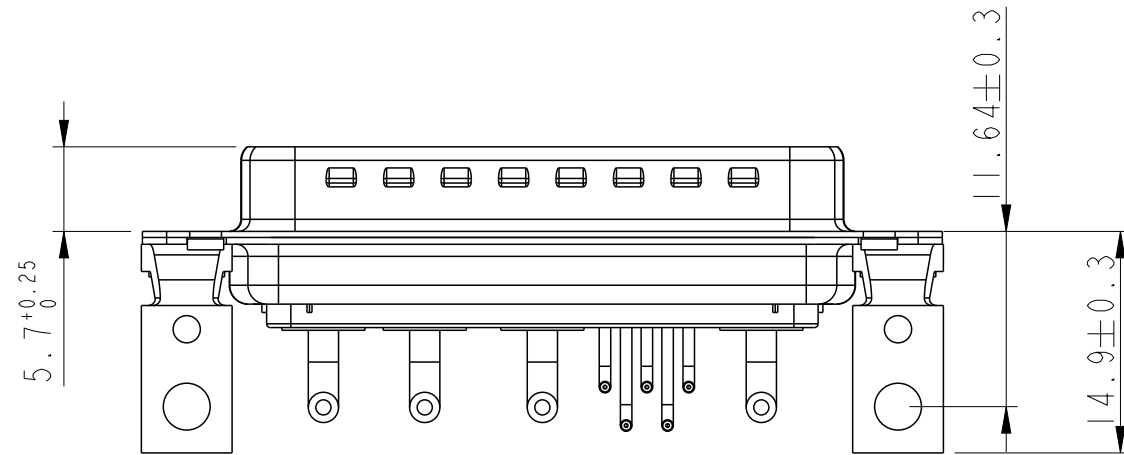
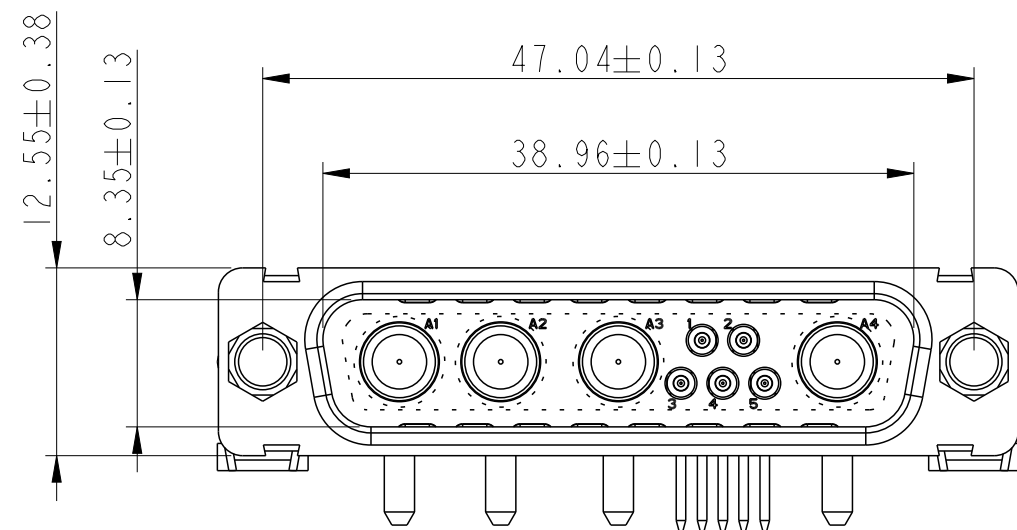
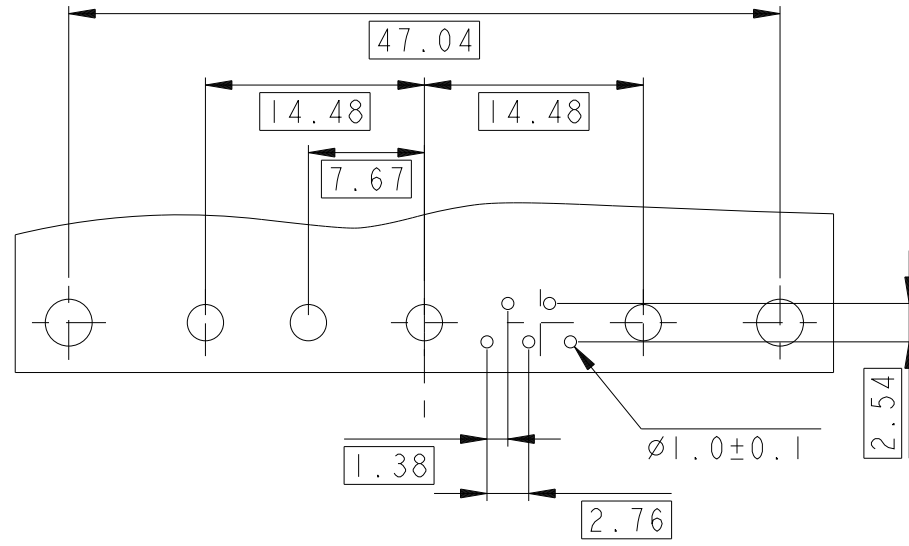
13W3

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I



9W4

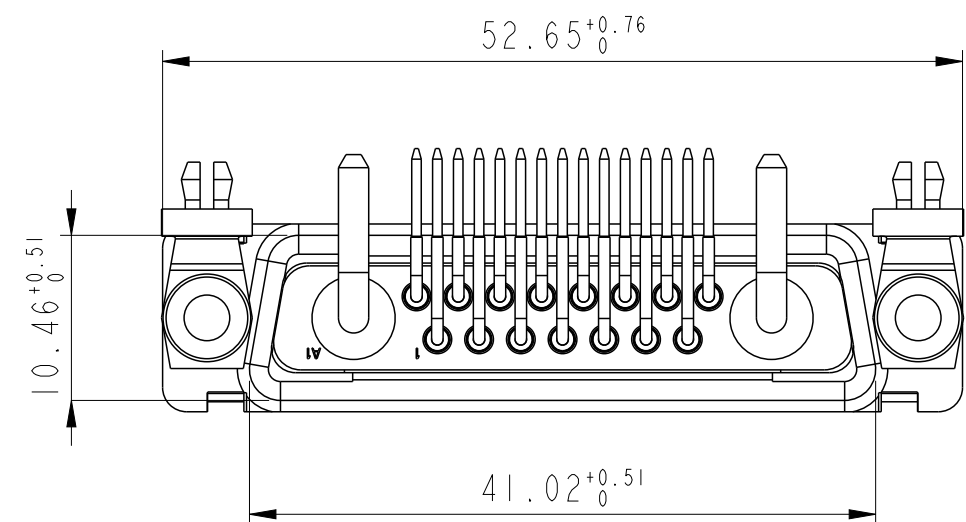
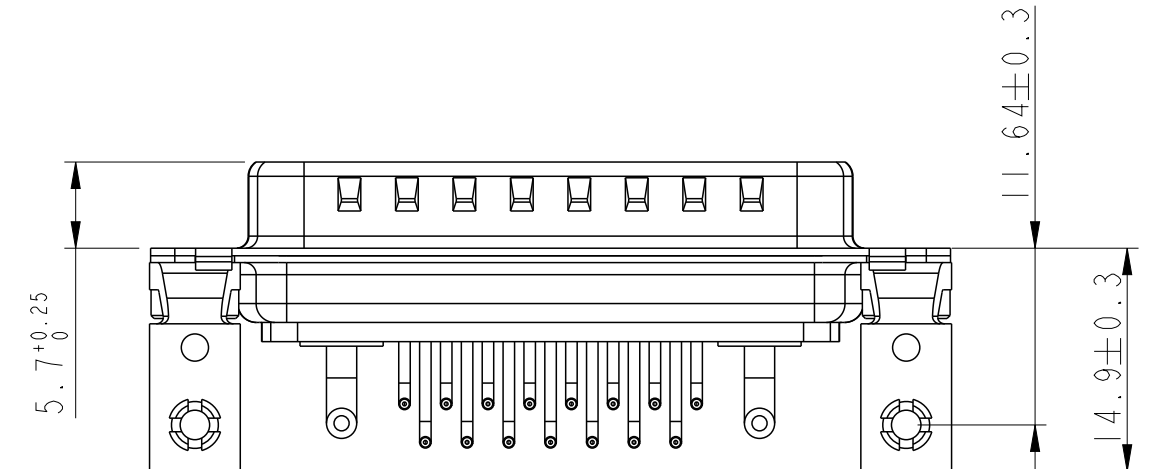
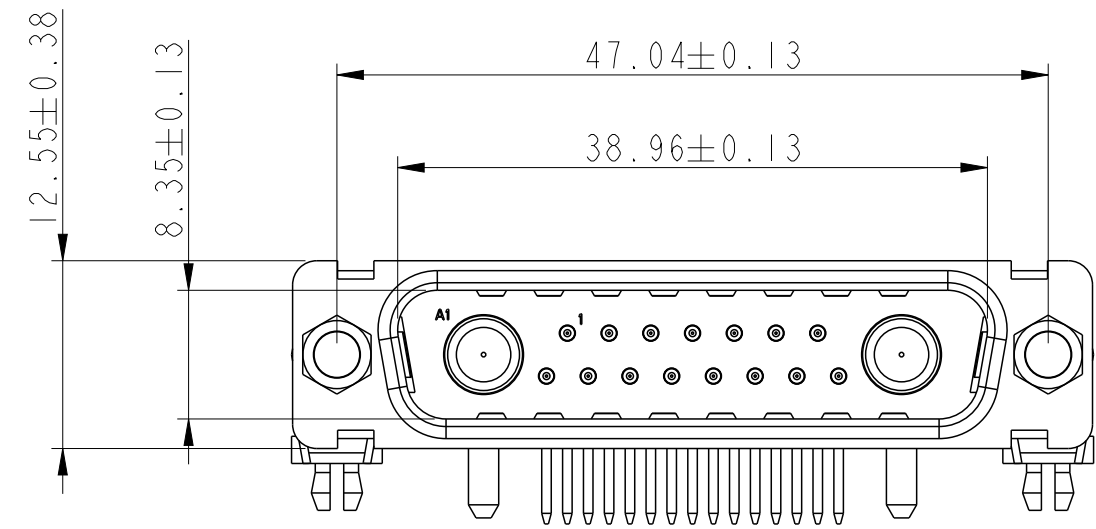
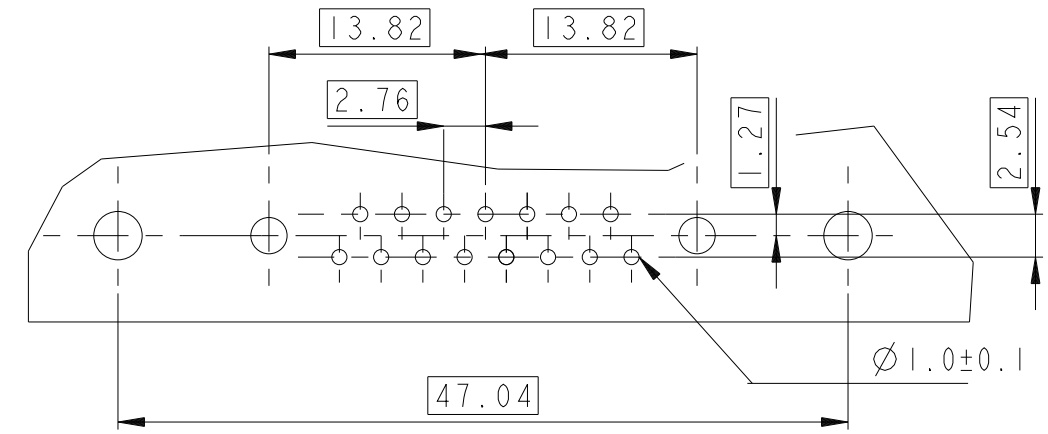
LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I

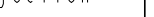


Floating signal contacts

17W2

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I



|                     |  |                                       |  |                                         |  |                 |  |            |  |                                                                                       |  |                                                                                       |  |                |  |              |  |
|---------------------|--|---------------------------------------|--|-----------------------------------------|--|-----------------|--|------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|----------------|--|--------------|--|
| spec ref            |  |                                       |  | dr                                      |  | 1, Product Eng  |  | 2015/06/16 |  | projection                                                                            |  | mm                                                                                    |  | size           |  | scale        |  |
| tolerance std       |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng                                     |  | Gregar Mathew   |  | 2019/11/11 |  |  |  |  |  | A2             |  | 2:1          |  |
| ISO 1101            |  |                                       |  | chr                                     |  | -               |  | -          |  |                                                                                       |  |                                                                                       |  |                |  |              |  |
| ISO 406             |  |                                       |  | appr                                    |  | Varma Sudhir    |  | 2019/11/12 |  | product family                                                                        |  | D SUB -                                                                               |  | ecn no         |  | ELX-133009-1 |  |
|                     |  |                                       |  |                                         |  |                 |  |            |  |                                                                                       |  | rel level                                                                             |  | Released       |  |              |  |
| surface<br>ISO 1302 |  | linear                                |  | 0.X ±0.30<br>0.XX ±0.10<br>0.XXX ±0.005 |  | Amphenol<br>FCi |  | title      |  | SUB MALE DW EUROPE FOOT PRINT<br>MIXED POWER RIGHT ANGL SOLDER                        |  | dwg no                                                                                |  | C01-8639-2304c |  | rev<br>E     |  |
|                     |  |                                       |  |                                         |  |                 |  |            |  |                                                                                       |  |                                                                                       |  |                |  |              |  |
|                     |  |                                       |  |                                         |  |                 |  |            |  |                                                                                       |  |                                                                                       |  |                |  |              |  |
| ISO 1302            |  | angular                               |  | 0° ±2                                   |  | cat. no.        |  | -          |  | Product - Customer Drw                                                                |  | sheet 5 of 7                                                                          |  |                |  |              |  |

# 21W1

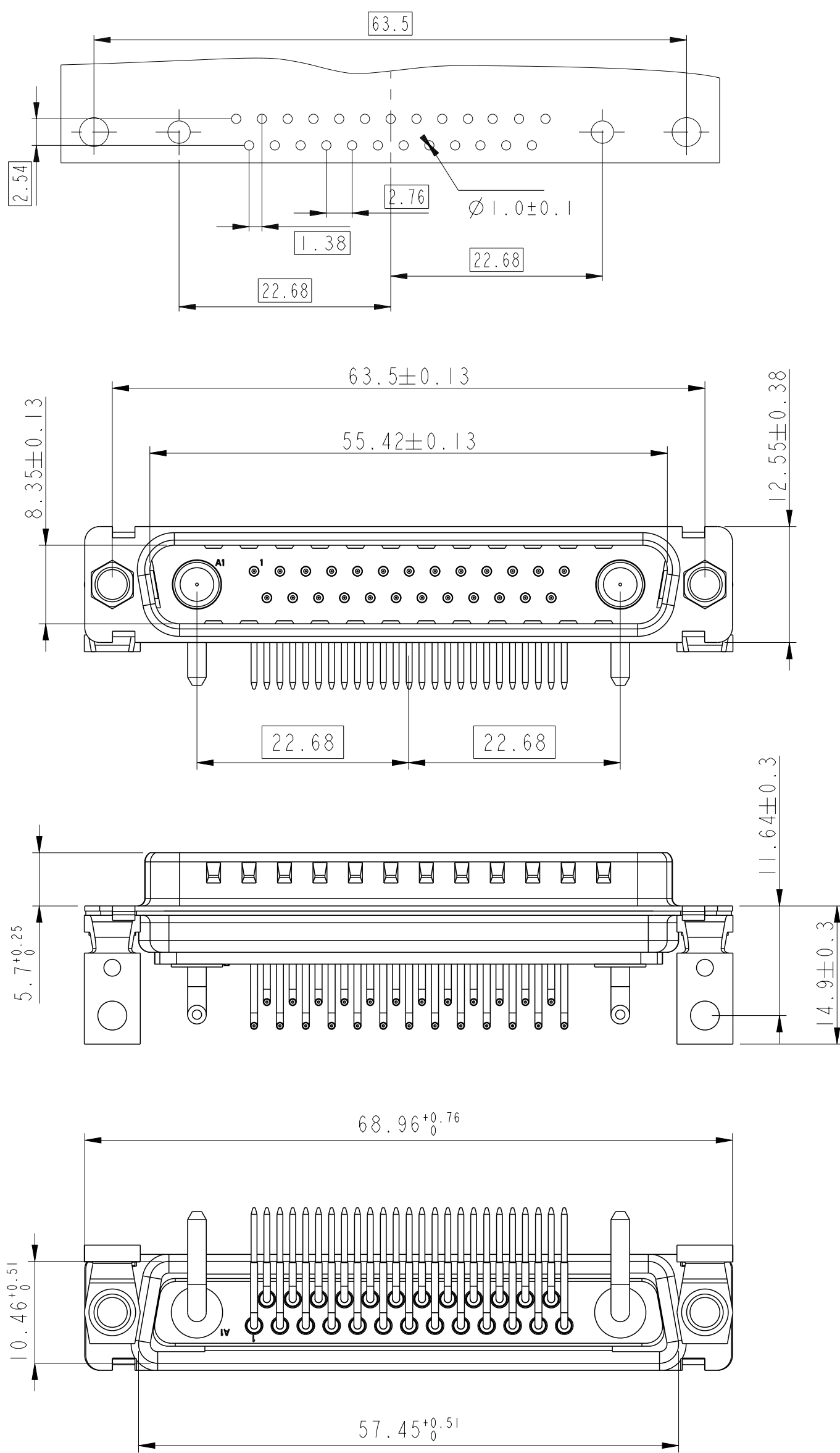
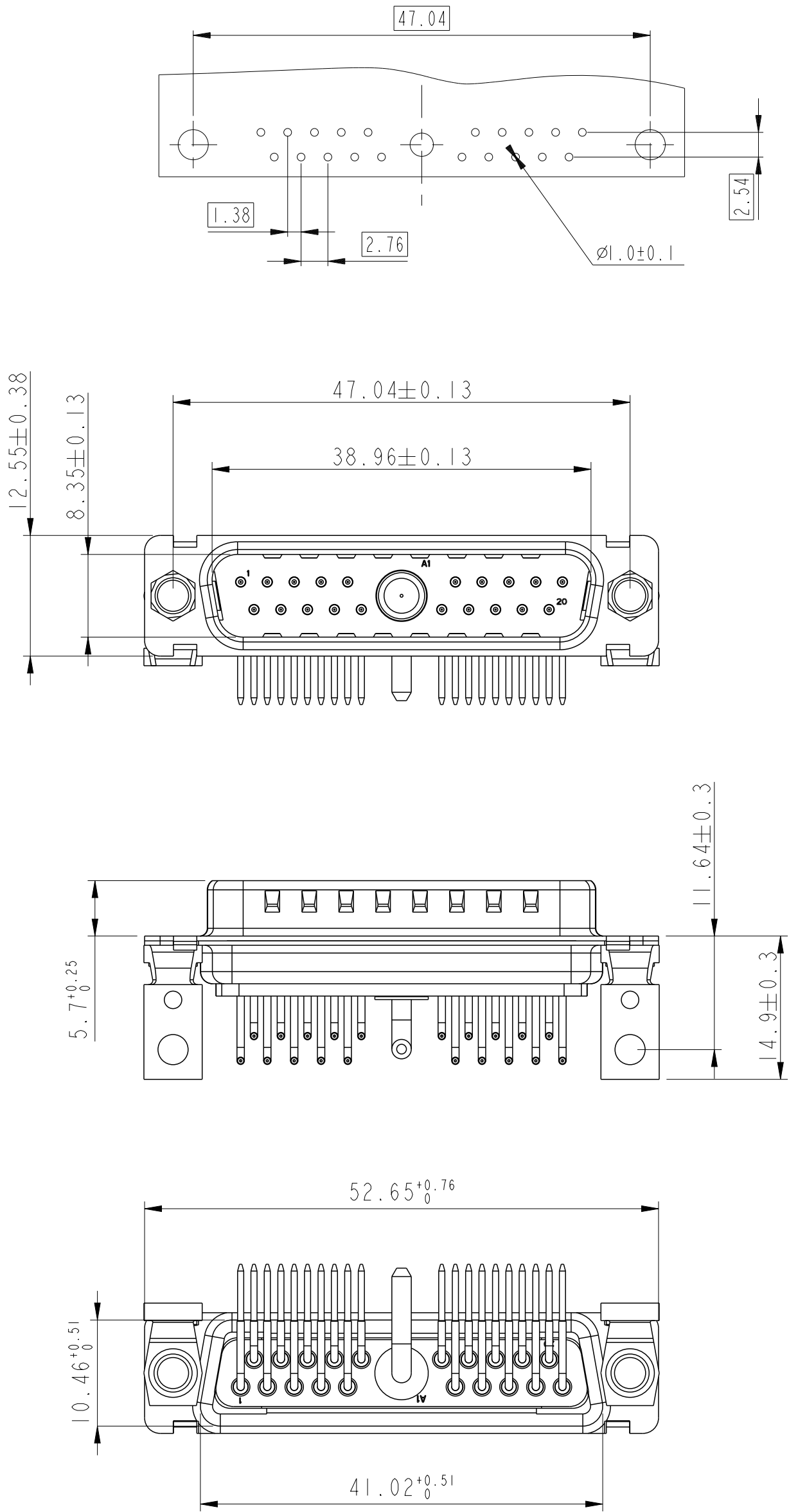
## LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

# 27W2

## LAYOUT AND CONNECTOR DIMENSIONS

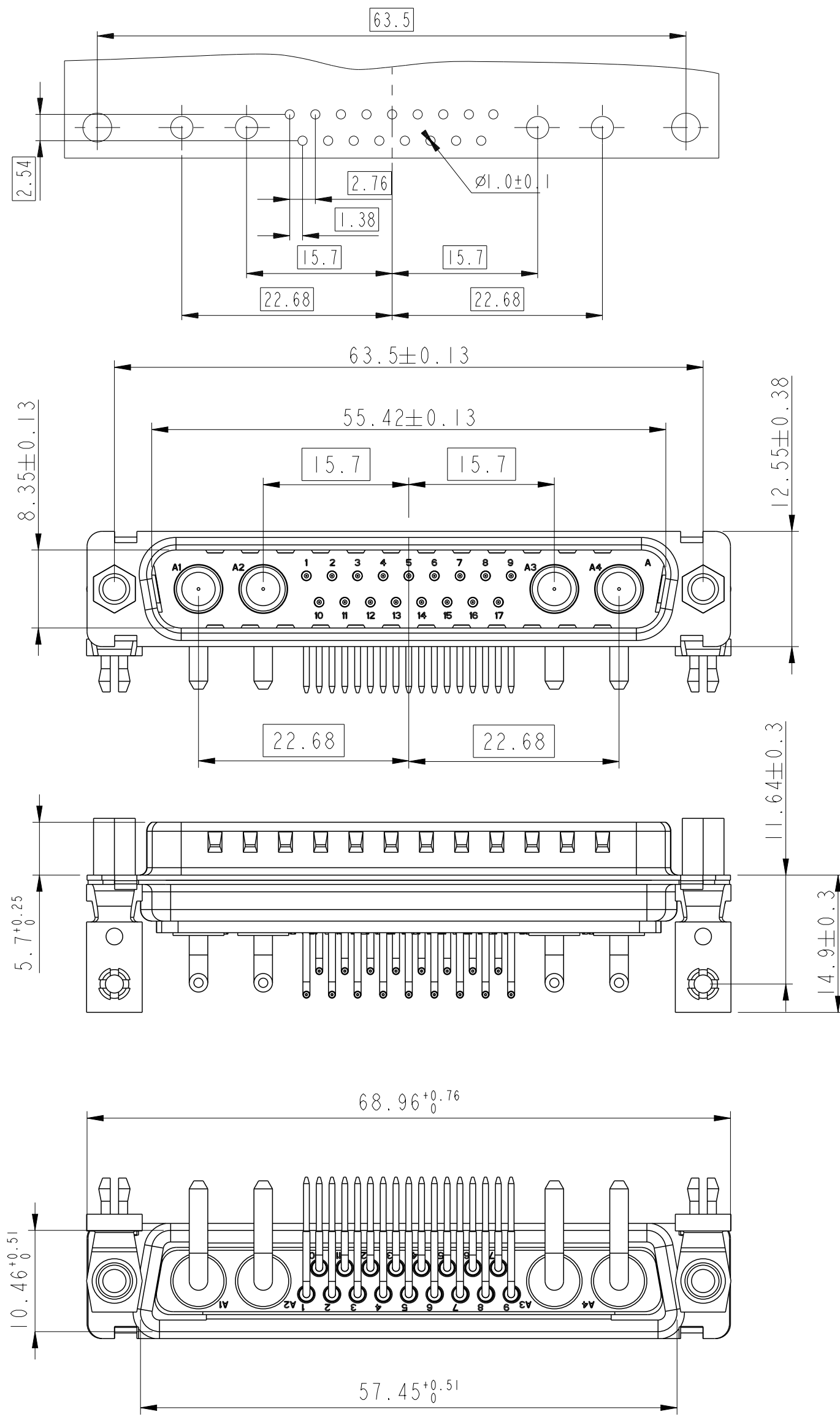
For PCB hole diameters see table I sheet I



|               |  |  |          |  |                |         |            |    |              |     |                               |          |                               |   |                |                        |       |              |     |  |
|---------------|--|--|----------|--|----------------|---------|------------|----|--------------|-----|-------------------------------|----------|-------------------------------|---|----------------|------------------------|-------|--------------|-----|--|
| spec ref      |  |  | dr       |  | 1. Product Eng |         | 2015/06/16 |    | projection   |     | mm                            |          | size                          |   | A2             |                        | scale |              | 2:1 |  |
| tolerance std |  |  | eng      |  | Gregar Mathew  |         | 2019/11/11 |    |              |     |                               |          | ecn no                        |   | ELX-133009-1   |                        |       |              |     |  |
| ISO 1101      |  |  | chr      |  | -              |         | -          |    |              |     |                               |          | rel level                     |   | Released       |                        |       |              |     |  |
| ISO 406       |  |  | appr     |  | Varma Sudhir   |         | 2019/11/12 |    |              |     |                               |          | product family                |   | D SUB-         |                        |       |              |     |  |
| surface       |  |  | linear   |  | 0.X            |         | ±0.30      |    | Amphenol FCI |     | SUB MALE DW EUROPE FOOT PRINT |          | MIXED POWER RIGHT ANGL SOLDER |   | C01-8639-2304c |                        | rev   |              | E   |  |
|               |  |  |          |  | 0.XX           |         | ±0.10      |    |              |     |                               |          |                               |   |                |                        |       |              |     |  |
|               |  |  |          |  | 0.XXX          |         | ±0.005     |    |              |     |                               |          |                               |   |                |                        |       |              |     |  |
|               |  |  | ISO 1302 |  |                | angular |            | 0° |              | ±2° |                               | cat. no. |                               | - |                | Product - Customer Drw |       | sheet 6 of 7 |     |  |

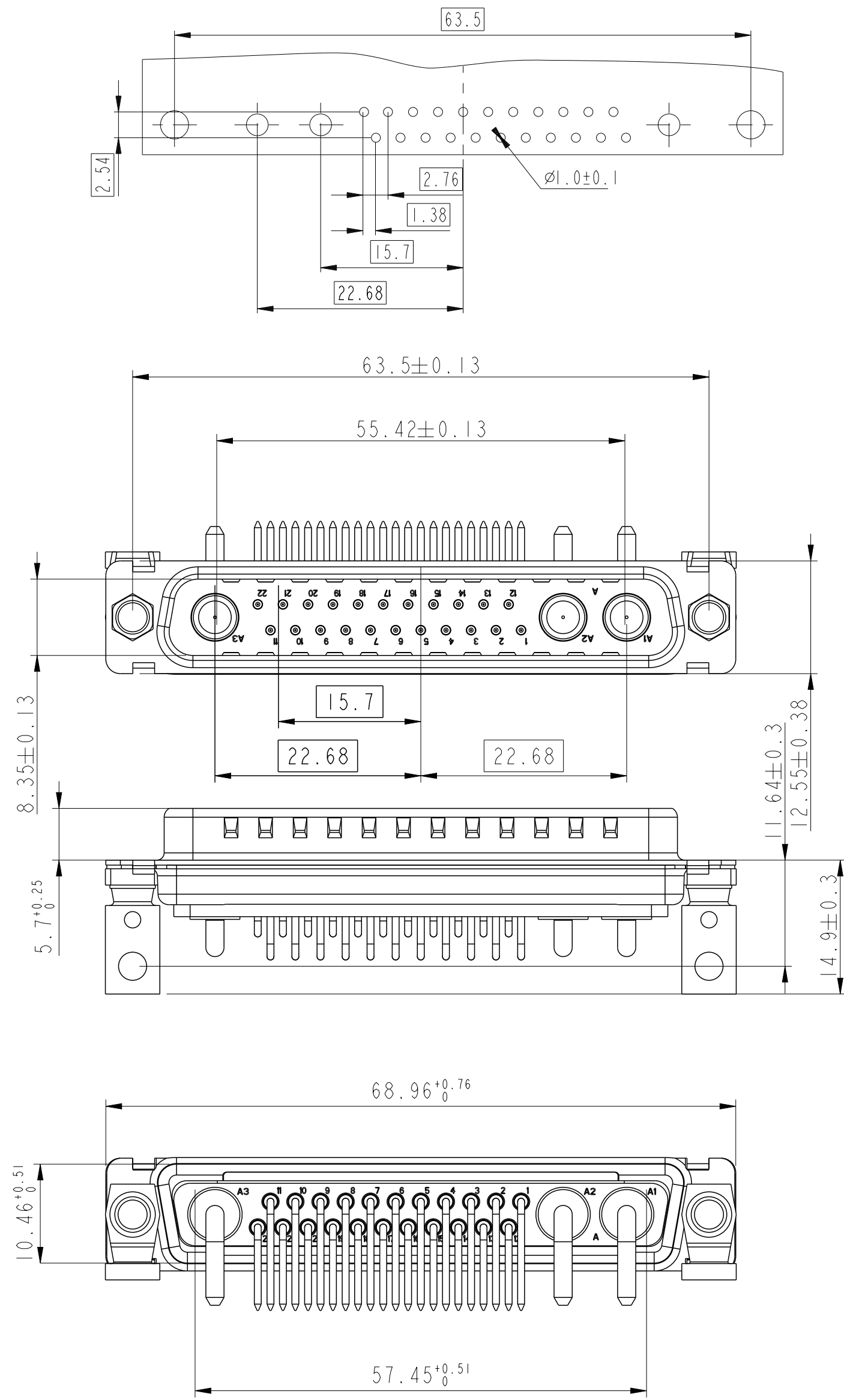
# 21WA4

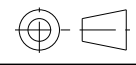
LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I



# 25W3

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I



|                          |  |        |  |                 |  |            |  |                                                                                       |  |                       |  |                |  |          |  |   |  |       |  |       |  |
|--------------------------|--|--------|--|-----------------|--|------------|--|---------------------------------------------------------------------------------------|--|-----------------------|--|----------------|--|----------|--|---|--|-------|--|-------|--|
| spec ref                 |  | dr     |  | 1, Product Eng  |  | 2015/06/16 |  | projection                                                                            |  | size                  |  | scale          |  |          |  |   |  |       |  |       |  |
| tolerance std            |  | eng    |  | Gregar Mathew   |  | 2019/11/11 |  |  |  | A2                    |  | 2:1            |  |          |  |   |  |       |  |       |  |
| ISO 1101                 |  | chr    |  | -               |  | -          |  |                                                                                       |  | ecn no                |  | ELX-133009-1   |  |          |  |   |  |       |  |       |  |
| ISO 406                  |  | appr   |  | Varma Sudhir    |  | 2019/11/12 |  | product family                                                                        |  | -                     |  | rel level      |  | Released |  |   |  |       |  |       |  |
| surface<br>-<br>ISO 1302 |  | linear |  | Amphenol<br>FCi |  | title      |  | SUB MALE DW EUROPE FOOT PRINT<br>MIXED POWER RIGHT ANGL SOLDER                        |  | dwg no                |  | C01-8639-2304c |  | rev      |  | E |  |       |  |       |  |
|                          |  |        |  |                 |  |            |  |                                                                                       |  |                       |  |                |  |          |  |   |  | 0.X   |  | ±0.30 |  |
|                          |  |        |  |                 |  |            |  |                                                                                       |  |                       |  |                |  |          |  |   |  | 0.XX  |  | ±0.10 |  |
|                          |  | 0.XXX  |  |                 |  |            |  |                                                                                       |  |                       |  |                |  |          |  |   |  | ±0.05 |  |       |  |
| angular                  |  | 0°     |  | ±2°             |  | cat. no.   |  | -                                                                                     |  | Product- Customer Drw |  | sheet 7 of 7   |  |          |  |   |  |       |  |       |  |