

## 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
- CLIMATIC CATEGORY: 55/125/21  
TEMPERATURE RANGE -55°C TO +125°C  
DAMP HEAT STEADY STATE 21 DAYS  
SALT SPRAY 48 HOURS
- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum  
- Female screw : 0.5 N.m minimum

## NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- 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
  - Power contacts: Ni 1.27µm+Sn 2.5 to 7.5µm,pure bright
- Active area plating spec:
  - Signal and power contacts: Ni + Gold
- Shell plating :2 to 4µm Cu + 3 to 10µm Sn,pure bright
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

Series

# DBL13W3S300G30LF

Shell size:

**E A B C D**

see sheet 2

Front accessory definition  
see sheet 2

**(blank)** :No shell accessory

**L** :Threaded insert M3

**O** :Threaded insert UNC 4-40

**V** :Female screw UNC 4-40

**I** :Female screw UNC M3

Layout of contacts (see sheet 3)

Contacts

**S** :Socket

Termination type

**3** Straight version

Plating

**00** 200 matings/unmatings

**43** 500 matings/unmatings

PCB accessories definition  
see sheet 2

**A** : No PCB accessory

**H** : Harpoons for PCB 2.40mm

**G** : Harpoons for PCB 1.60mm

Power contacts

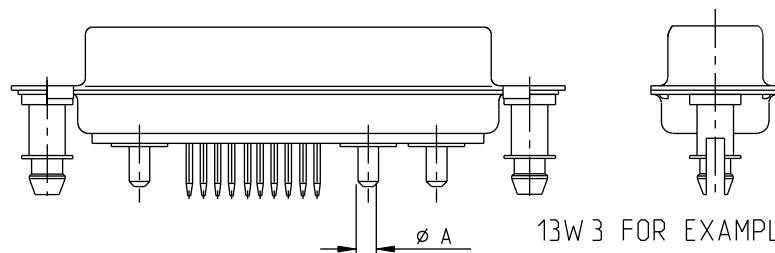
**00** :Not fitted with power contact

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

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

TABLE 1:PCB HOLE DIAMETERS

| POWER CONTACTS    |                                 |                    | ACCESSORIES        | SIGNAL CONTACTS    |
|-------------------|---------------------------------|--------------------|--------------------|--------------------|
| 30 A              | 2.00                            | ø2.40              | ø3.10              | ø0.90 min          |
| 40 A              | 2.80                            | 3.10               |                    |                    |
| Max current power | øA <sup>+0.1</sup> <sub>0</sub> | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 |



|                    |  |  |                             |   |                                       |                      |                      |                       |
|--------------------|--|--|-----------------------------|---|---------------------------------------|----------------------|----------------------|-----------------------|
| www.fciconnect.com |  |  | Surface<br>ISO 1302         | - | tolerance std<br>ISO 406              | ISO 1101             | projection<br>mm     | mm                    |
| Dr M PESSON        |  |  | 2005-10-11                  |   | TOLERANCES UNLESS OTHERWISE SPECIFIED |                      | size<br>A2           | Scale<br>2:1          |
| Eng P LEGARE       |  |  | 2005-10-11                  |   | ANGULAR                               | LINEAR               | 0.x<br>0.xx<br>0.xxx | ±0.3<br>±0.1<br>±0.05 |
| Chr                |  |  |                             |   | 0°                                    | ±2°                  | ECN F10-0035         |                       |
| Appr               |  |  |                             |   | Product family                        |                      | - Spec ref           |                       |
| FCI                |  |  | title SUB SOCKET DW         |   |                                       | dwg no C01-8639-2302 |                      | Rev.<br>J             |
|                    |  |  | mixed power straight solder |   |                                       | CUSTOMER             |                      | sheet 1 of 7          |
|                    |  |  | catalog no                  |   |                                       |                      |                      |                       |

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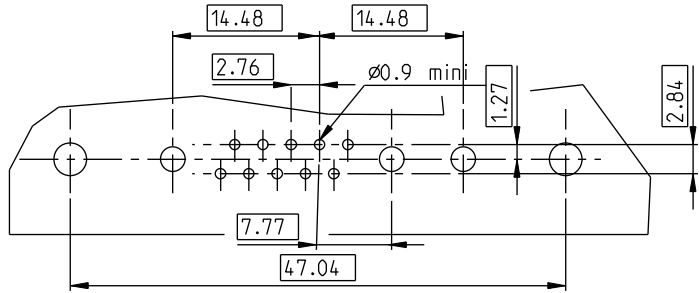




# 13W 3

## LAYOUT AND CONNECTOR DIMENSIONS

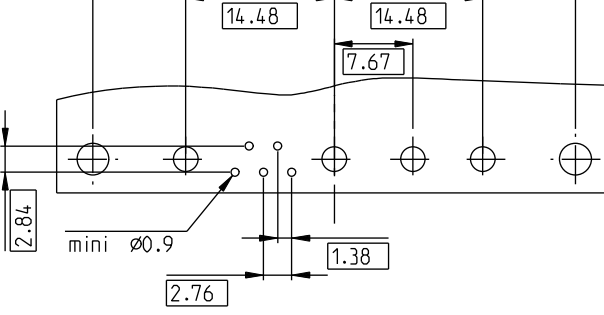
For PCB hole diameters see table 1 sheet 1



# 9W 4

## LAYOUT AND CONNECTOR DIMENSIONS

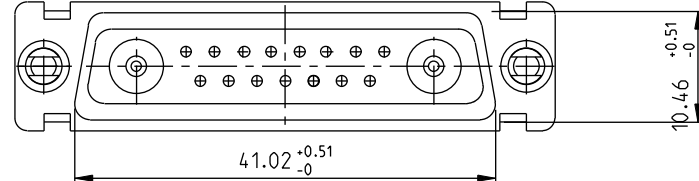
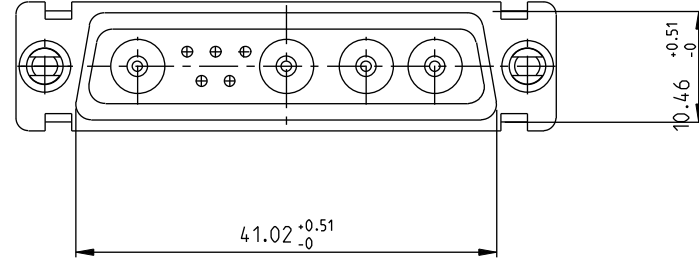
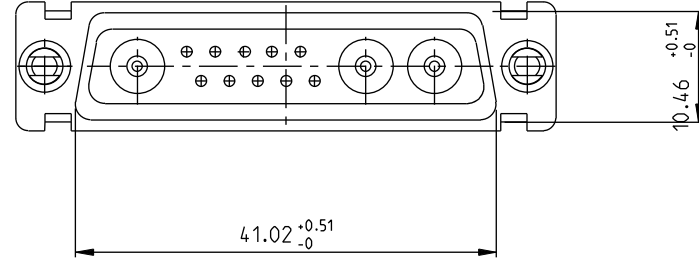
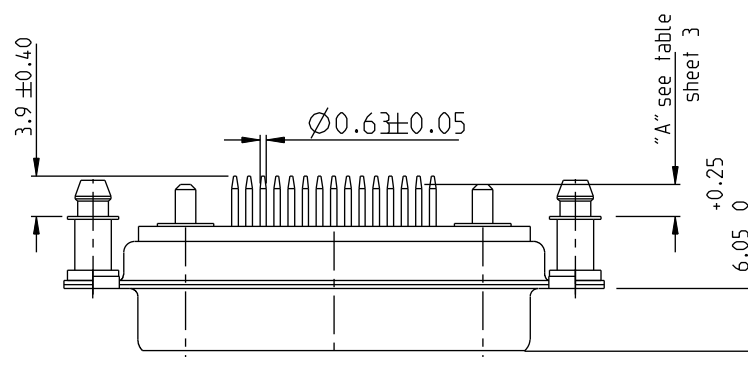
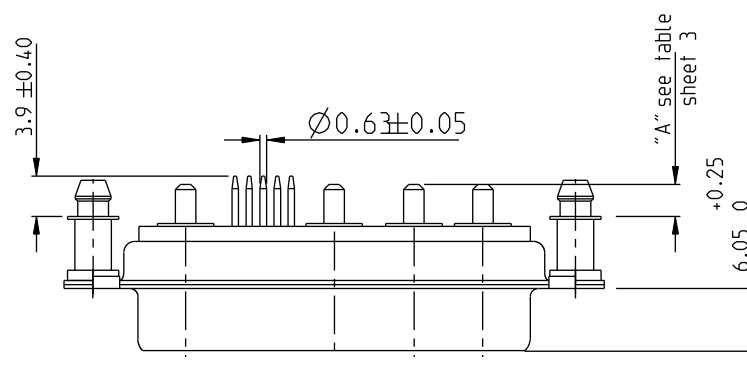
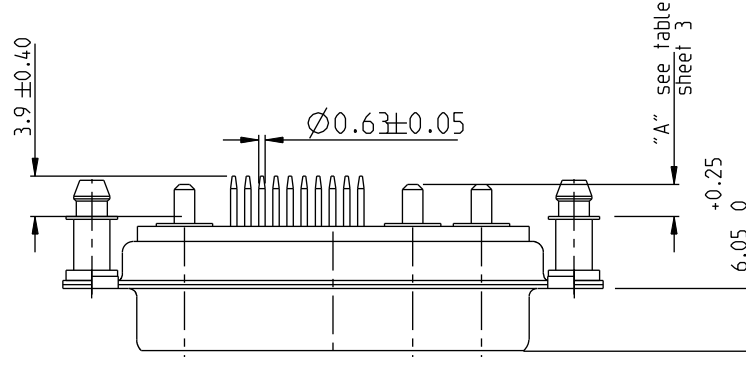
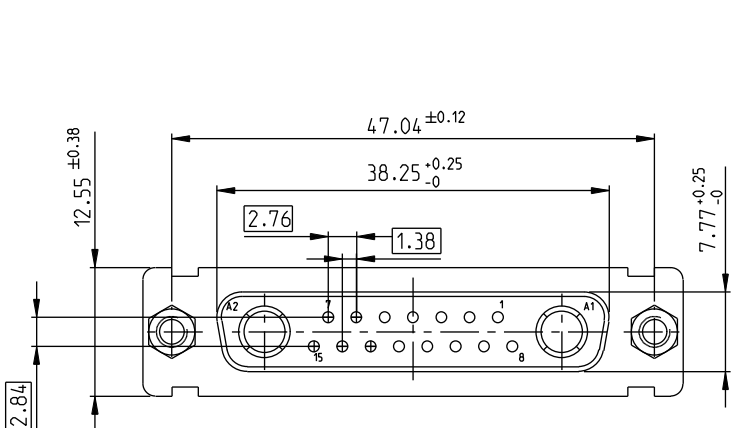
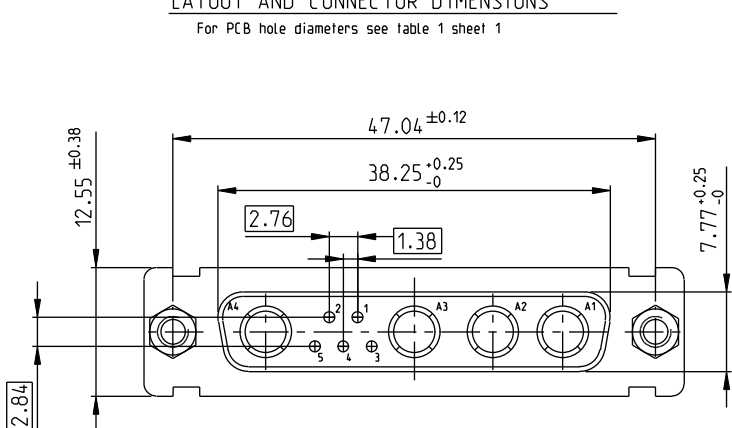
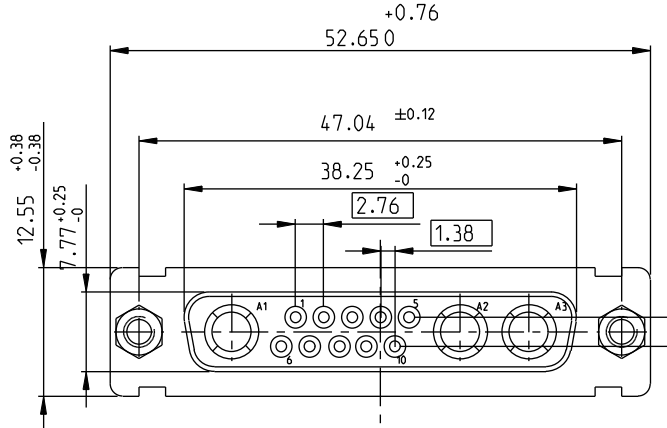
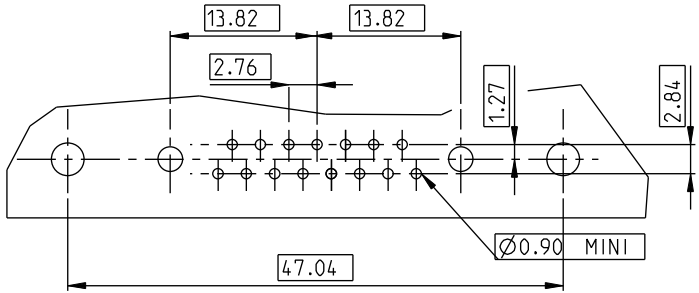
For PCB hole diameters see table 1 sheet 1



# 17W 2

## LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

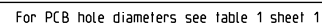


Floating signal contacts

|                    |          |            |                                       |                                     |                                   |                |              |
|--------------------|----------|------------|---------------------------------------|-------------------------------------|-----------------------------------|----------------|--------------|
| www.fciconnect.com |          |            | Surface<br>ISO 1302                   | <input checked="" type="checkbox"/> | tolerance std<br>ISO 406 ISO 1101 | projection<br> | mm           |
|                    |          |            | TOLERANCES UNLESS OTHERWISE SPECIFIED |                                     |                                   |                |              |
| Dr                 | M PESSON | 2005-10-11 | ANGULAR                               | LINEAR                              | 0.X                               | ±0.3           | size         |
| Eng                | P LEGARE | 2005-10-11 |                                       |                                     | 0.XX                              | ±0.1           | A2           |
| Chr                |          |            |                                       |                                     | 0.XXX                             | ±0.05          | Scale        |
| Appr               |          |            | 0° ±2°                                |                                     |                                   |                | ECN          |
|                    |          |            | Product family                        |                                     | -                                 | Spec ref       | F10-0035     |
| FCI                |          |            | title SUB SOCKET DW                   |                                     |                                   | dwg no         | Rev.         |
|                    |          |            | mixed power straight solder           |                                     |                                   | C01-8639-2302  | J            |
|                    |          |            | catalog no                            |                                     |                                   | CUSTOMER       | sheet 4 of 7 |



For PCB hole diameters see table 1 sheet 1



Technical drawing of a mechanical part showing a dimension of  $10.64 \pm 0.52$ . The drawing includes a cross-section view of a cylindrical component with a central hole and a flange. A dimension line indicates the total height of the part, with a tolerance of  $\pm 0.52$ .

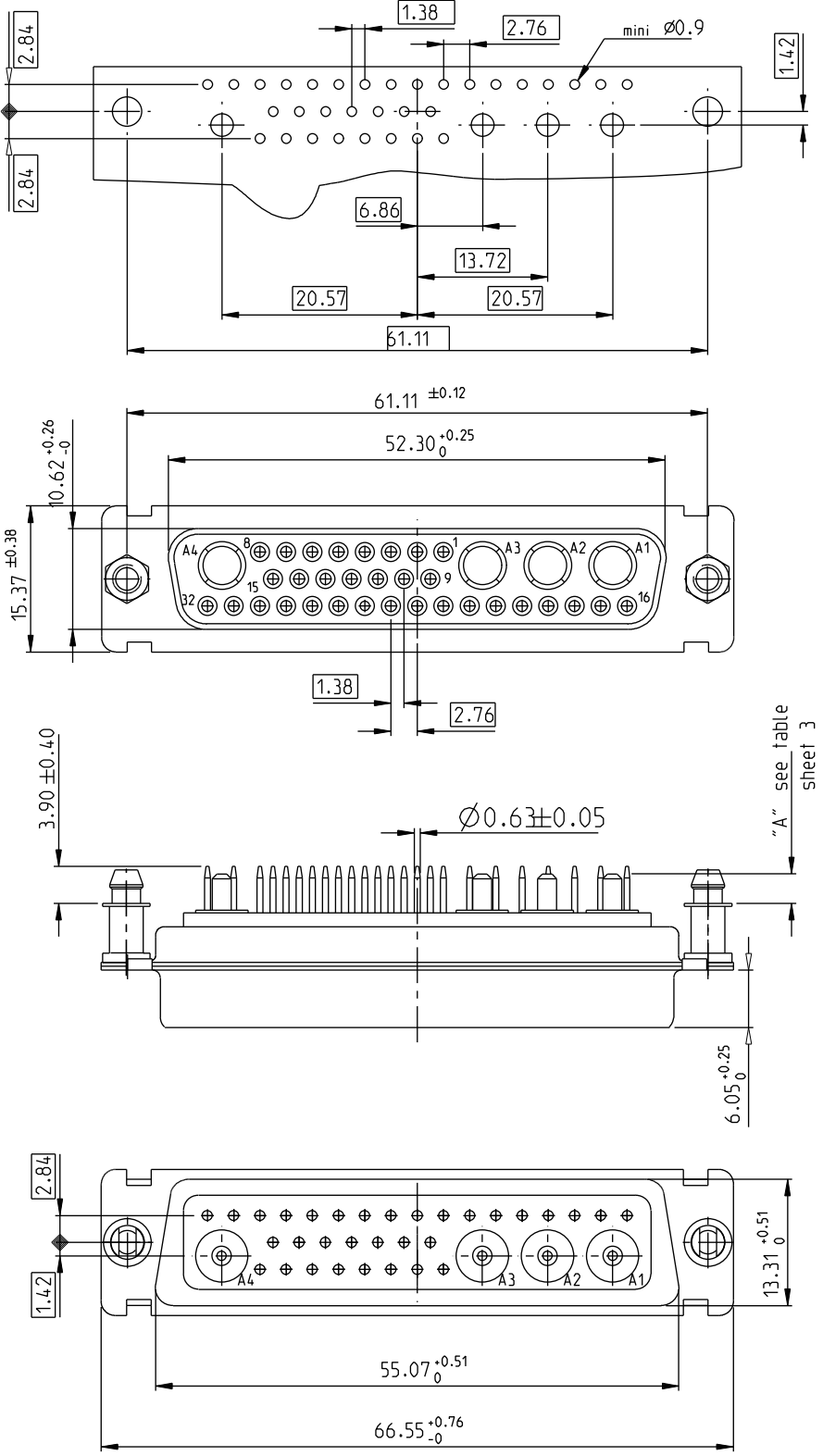
|                                                                                       |          |            |                                              |        |                                          |            |                                                                                                     |          |                                                                                       |           |            |
|---------------------------------------------------------------------------------------|----------|------------|----------------------------------------------|--------|------------------------------------------|------------|-----------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|-----------|------------|
| www.fciconnect.com                                                                    |          |            | surface<br>ISO 1302                          |        | - ✓<br>tolerance std<br>ISO 406 ISO 1101 |            | projection<br> |          |  |           |            |
|                                                                                       |          |            | TOLERANCES UNLESS OTHERWISE SPECIFIED        |        |                                          |            |                                                                                                     |          |                                                                                       |           |            |
| Dr                                                                                    | M PESSON | 2005-10-11 | ANGULAR                                      | LINEAR | 0.X                                      | ±0.3       | size                                                                                                | Scale    |                                                                                       |           |            |
| Eng                                                                                   | P LEGARE | 2005-10-11 |                                              |        | 0.XX                                     | ±0.1       | A2                                                                                                  | 2:1      |                                                                                       |           |            |
| Chr                                                                                   |          |            | 0° ±2°                                       |        | 0.XXX                                    | ±0.05      | ECN                                                                                                 | F10-0035 |                                                                                       |           |            |
| Appr                                                                                  |          |            | Product family                               |        |                                          | - Spec ref |                                                                                                     |          |                                                                                       |           |            |
|  |          | title      | SUB SOCKET DW<br>mixed power straight solder |        |                                          | dwg no     | C01-8639-2302                                                                                       |          |                                                                                       | Rev.<br>J |            |
|                                                                                       |          |            |                                              |        |                                          |            |                                                                                                     |          |                                                                                       |           | catalog no |





LAYOUT AND CONNECTOR DIMENSIONS

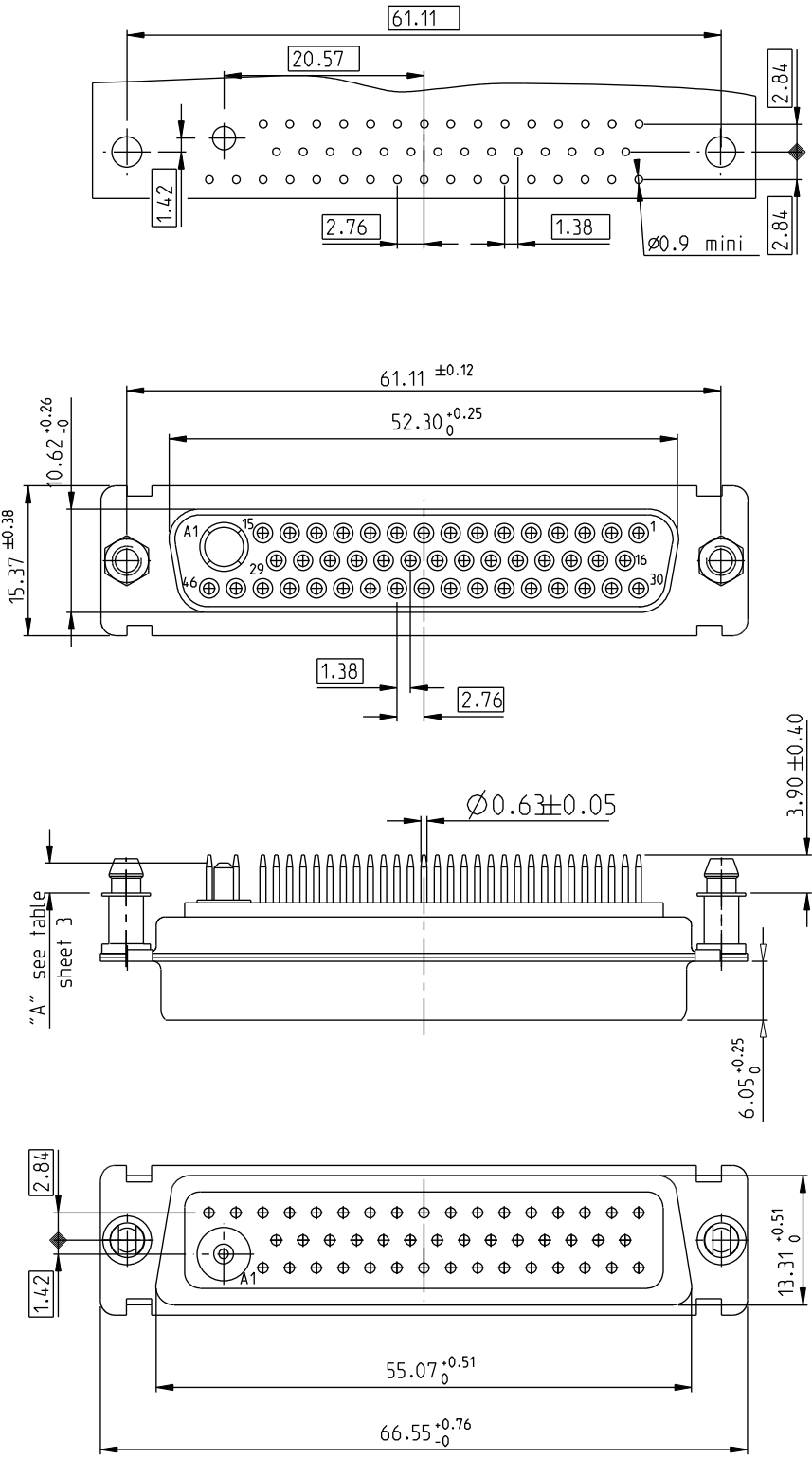
For PCB hole diameters see table 1 sheet 1



Floating signal contacts

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



|                    |          |            |                                       |                                   |                        |              |
|--------------------|----------|------------|---------------------------------------|-----------------------------------|------------------------|--------------|
| www.fciconnect.com |          |            | Surface<br>ISO 1302                   | tolerance std<br>ISO 406 ISO 1101 | projection<br>ISO 1101 | mm           |
|                    |          |            | TOLERANCES UNLESS OTHERWISE SPECIFIED |                                   |                        |              |
| Dr                 | M PESSON | 2005-10-11 | ANGULAR                               | LINEAR                            | size                   | Scale        |
| Eng                | P LEGARE | 2005-10-11 |                                       |                                   | A2                     | 2:1          |
| Chr                |          |            | 0°                                    | ±2°                               | ECN                    | F10-0035     |
| Appr               |          |            | Product family                        |                                   |                        | - Spec ref   |
| FCI                |          |            | title SUB SOCKET DW                   |                                   |                        | Rev.         |
|                    |          |            | mixed power straight solder           |                                   |                        | J            |
| catalog no         |          |            | CUSTOMER                              |                                   |                        | sheet 7 of 7 |