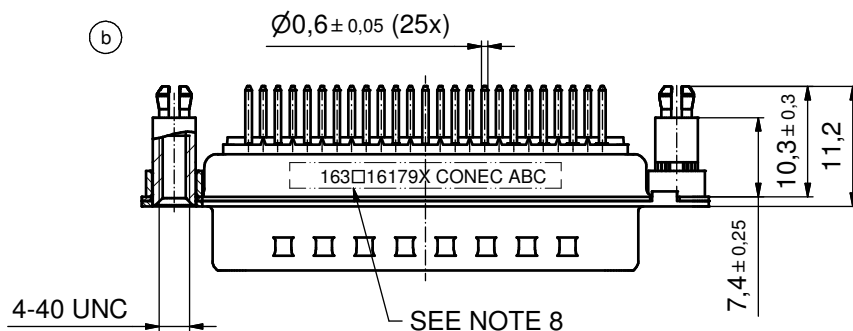
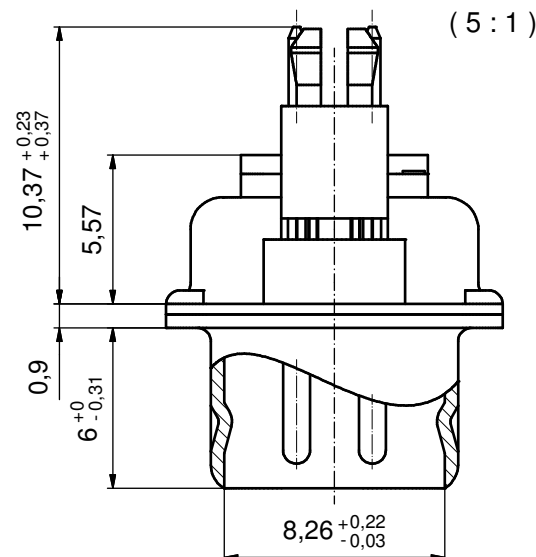
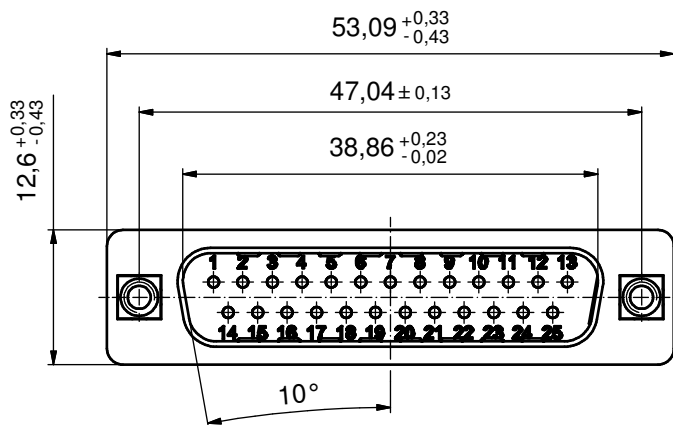
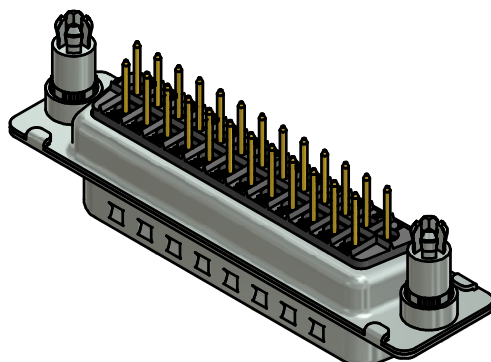


#### NOTES:

- METALSHELLS: STEEL; min. 315µm TIN over 40-80µm NICKEL
- INSULATORS: PBT GF UL 94 V-0, BLACK
- CONTACTS: COPPER ALLOY; PLATING (SEE PART NO.):
  - PLEASE ADD A for GOLD FLASH over NICKEL (PREFERRED TYPE)
  - PLEASE ADD B for 20µm HARD GOLD over min. 50µm NICKEL
  - PLEASE ADD C for 30µm HARD GOLD over min. 50µm NICKEL
  - PLEASE ADD J for 30µm HARD GOLD over min. 50µm NICKEL
- THREADED SPACER CLIPS:
  - COPPER ALLOY; min. 200µm TIN over 80µm NICKEL
  - PCB-HOLE:  $\phi 3.1 \pm 0,1$ ; PCB THICKNESS 1,6mm
- COLLARS: COPPER ALLOY; min. 200µm TIN over 80µm NICKEL
- P.C.B. HOLE DRILLINGS ON SHEET 2
- MAXIMUM TORQUE VALUE FOR THREAD: 6 in.LB
- CONNECTOR IS PART MARKED: 163□16179X CONEC ABC (see note 3)



Directive 2002/95/EC RoHS compliant

|                                                                                                                                                                         |  |  |             |            |                              |                                                                                       |                                                                                      |  |                                               |  |                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------|------------|------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|-----------------------------------------------|--|-------------------------------------------------------------------------------------|--|
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|                                                                                                                                                                         |  |  |             | dim. in mm |                              |                                                                                       | material: SEE NOTES                                                                  |  |                                               |  |                                                                                     |  |
|                                                                                                                                                                         |  |  |             |            |                              |                                                                                       | date                                                                                 |  | name                                          |  | title:<br><br>D-SUB MALE<br>25pos. SOLDER PIN STRAIGHT<br>with threaded spacer clip |  |
|                                                                                                                                                                         |  |  |             |            |                              |                                                                                       | drawn 08.01.13                                                                       |  | Henneboel                                     |  |                                                                                     |  |
|                                                                                                                                                                         |  |  |             |            |                              |                                                                                       | appd. 09.01.13                                                                       |  | Fischer                                       |  |                                                                                     |  |
|                                                                                                                                                                         |  |  | norm        |            |                              |                                                                                       | dwg no:<br><br><div>Ⓟ 16K1A3165</div>                                                |  |                                               |  |                                                                                     |  |
|                                                                                                                                                                         |  |  | d-old       |            | 16K1A1045/16K1A1201/16K1A681 |                                                                                       |                                                                                      |  |                                               |  |                                                                                     |  |
| 4 x b                                                                                                                                                                   |  |  | Ä4593       |            | 08.01.2013                   |                                                                                       |                                                                                      |  | K.H.                                          |  |                                                                                     |  |
| a                                                                                                                                                                       |  |  | Original    |            |                              |                                                                                       |  |  | DIN-A3<br>sh: 1/2                             |  |                                                                                     |  |
| rev.                                                                                                                                                                    |  |  | description |            | date                         |                                                                                       | name                                                                                 |  | part no: <div>Ⓟ 163□16179X</div> (see note 3) |  |                                                                                     |  |

DIN-A3  
sh: 1/2

Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes a central horizontal section with two circular features on the left and right, each labeled  $\varnothing 3,1 \pm 0,1 (2x)$ . The central section is marked with a grid of points. Dimensions are provided for various features:

- Overall length:  $47,04 \pm 0,13$
- Distance from left circular feature to first vertical line:  $1,4 \pm 0,1$
- Distance from first vertical line to second vertical line:  $4,14 \pm 0,1$
- Distance from second vertical line to third vertical line:  $6,91 \pm 0,1$
- Distance from third vertical line to fourth vertical line:  $9,68 \pm 0,1$
- Distance from fourth vertical line to fifth vertical line:  $12,42 \pm 0,1$
- Distance from fifth vertical line to sixth vertical line:  $15,19 \pm 0,1$
- Distance from sixth vertical line to seventh vertical line:  $1,42 \pm 0,1$
- Distance from seventh vertical line to eighth vertical line:  $2,84 \pm 0,1$
- Distance from eighth vertical line to ninth vertical line:  $1,42 \pm 0,1$
- Distance from ninth vertical line to tenth vertical line:  $2,84 \pm 0,1$
- Distance from tenth vertical line to eleventh vertical line:  $1,42 \pm 0,1$
- Distance from eleventh vertical line to twelfth vertical line:  $2,84 \pm 0,1$
- Distance from twelfth vertical line to thirteenth vertical line:  $1,42 \pm 0,1$
- Distance from thirteenth vertical line to fourteenth vertical line:  $2,84 \pm 0,1$
- Distance from fourteenth vertical line to fifteenth vertical line:  $1,42 \pm 0,1$
- Distance from fifteenth vertical line to sixteenth vertical line:  $2,84 \pm 0,1$
- Distance from sixteenth vertical line to seventeenth vertical line:  $1,42 \pm 0,1$
- Distance from seventeenth vertical line to eighteenth vertical line:  $2,84 \pm 0,1$
- Distance from eighteenth vertical line to nineteenth vertical line:  $1,42 \pm 0,1$
- Distance from nineteenth vertical line to twentieth vertical line:  $2,84 \pm 0,1$
- Distance from twentieth vertical line to twenty-first vertical line:  $1,42 \pm 0,1$
- Distance from twenty-first vertical line to twenty-second vertical line:  $2,84 \pm 0,1$
- Distance from twenty-second vertical line to twenty-third vertical line:  $1,42 \pm 0,1$
- Distance from twenty-third vertical line to twenty-fourth vertical line:  $2,84 \pm 0,1$
- Distance from twenty-fourth vertical line to twenty-fifth vertical line:  $1,42 \pm 0,1$
- Distance from twenty-fifth vertical line to twenty-sixth vertical line:  $2,84 \pm 0,1$
- Distance from twenty-sixth vertical line to twenty-seventh vertical line:  $1,42 \pm 0,1$
- Distance from twenty-seventh vertical line to twenty-eighth vertical line:  $2,84 \pm 0,1$
- Distance from twenty-eighth vertical line to twenty-ninth vertical line:  $1,42 \pm 0,1$
- Distance from twenty-ninth vertical line to thirtieth vertical line:  $2,84 \pm 0,1$
- Distance from thirtieth vertical line to thirty-first vertical line:  $1,42 \pm 0,1$
- Distance from thirty-first vertical line to thirty-second vertical line:  $2,84 \pm 0,1$
- Distance from thirty-second vertical line to thirty-third vertical line:  $1,42 \pm 0,1$
- Distance from thirty-third vertical line to thirty-fourth vertical line:  $2,84 \pm 0,1$
- Distance from thirty-fourth vertical line to thirty-fifth vertical line:  $1,42 \pm 0,1$
- Distance from thirty-fifth vertical line to thirty-sixth vertical line:  $2,84 \pm 0,1$
- Distance from thirty-sixth vertical line to thirty-seventh vertical line:  $1,42 \pm 0,1$
- Distance from thirty-seventh vertical line to thirty-eighth vertical line:  $2,84 \pm 0,1$
- Distance from thirty-eighth vertical line to thirty-ninth vertical line:  $1,42 \pm 0,1$
- Distance from thirty-ninth vertical line to fortieth vertical line:  $2,84 \pm 0,1$
- Distance from fortieth vertical line to forty-first vertical line:  $1,42 \pm 0,1$
- Distance from forty-first vertical line to forty-second vertical line:  $2,84 \pm 0,1$
- Distance from forty-second vertical line to forty-third vertical line:  $1,42 \pm 0,1$
- Distance from forty-third vertical line to forty-fourth vertical line:  $2,84 \pm 0,1$
- Distance from forty-fourth vertical line to forty-fifth vertical line:  $1,42 \pm 0,1$
- Distance from forty-fifth vertical line to forty-sixth vertical line:  $2,84 \pm 0,1$
- Distance from forty-sixth vertical line to forty-seventh vertical line:  $1,42 \pm 0,1$
- Distance from forty-seventh vertical line to forty-eighth vertical line:  $2,84 \pm 0,1$
- Distance from forty-eighth vertical line to forty-ninth vertical line:  $1,42 \pm 0,1$
- Distance from forty-ninth vertical line to fiftieth vertical line:  $2,84 \pm 0,1$
- Distance from fiftieth vertical line to fifty-first vertical line:  $1,42 \pm 0,1$
- Distance from fifty-first vertical line to fifty-second vertical line:  $2,84 \pm 0,1$
- Distance from fifty-second vertical line to fifty-third vertical line:  $1,42 \pm 0,1$
- Distance from fifty-third vertical line to fifty-fourth vertical line:  $2,84 \pm 0,1$
- Distance from fifty-fourth vertical line to fifty-fifth vertical line:  $1,42 \pm 0,1$
- Distance from fifty-fifth vertical line to fifty-sixth vertical line:  $2,84 \pm 0,1$
- Distance from fifty-sixth vertical line to fifty-seventh vertical line:  $1,42 \pm 0,1$
- Distance from fifty-seventh vertical line to fifty-eighth vertical line:  $2,84 \pm 0,1$
- Distance from fifty-eighth vertical line to fifty-ninth vertical line:  $1,42 \pm 0,1$
- Distance from fifty-ninth vertical line to sixtieth vertical line:  $2,84 \pm 0,1$
- Distance from sixtieth vertical line to sixty-first vertical line:  $1,42 \pm 0,1$
- Distance from sixty-first vertical line to sixty-second vertical line:  $2,84 \pm 0,1$
- Distance from sixty-second vertical line to sixty-third vertical line:  $1,42 \pm 0,1$
- Distance from sixty-third vertical line to sixty-fourth vertical line:  $2,84 \pm 0,1$
- Distance from sixty-fourth vertical line to sixty-fifth vertical line:  $1,42 \pm 0,1$
- Distance from sixty-fifth vertical line to sixty-sixth vertical line:  $2,84 \pm 0,1$
- Distance from sixty-sixth vertical line to sixty-seventh vertical line:  $1,42 \pm 0,1$
- Distance from sixty-seventh vertical line to sixty-eighth vertical line:  $2,84 \pm 0,1$
- Distance from sixty-eighth vertical line to sixty-ninth vertical line:  $1,42 \pm 0,1$
- Distance from sixty-ninth vertical line to seventieth vertical line:  $2,84 \pm 0,1$
- Distance from seventieth vertical line to seventy-first vertical line:  $1,42 \pm 0,1$
- Distance from seventy-first vertical line to seventy-second vertical line:  $2,84 \pm 0,1$
- Distance from seventy-second vertical line to seventy-third vertical line:  $1,42 \pm 0,1$
- Distance from seventy-third vertical line to seventy-fourth vertical line:  $2,84 \pm 0,1$
- Distance from seventy-fourth vertical line to seventy-fifth vertical line:  $1,42 \pm 0,1$
- Distance from seventy-fifth vertical line to seventy-sixth vertical line:  $2,84 \pm 0,1$
- Distance from seventy-sixth vertical line to seventy-seventh vertical line:  $1,42 \pm 0,1$
- Distance from seventy-seventh vertical line to seventy-eighth vertical line:  $2,84 \pm 0,1$
- Distance from seventy-eighth vertical line to seventy-ninth vertical line:  $1,42 \pm 0,1$
- Distance from seventy-ninth vertical line to eightieth vertical line:  $2,84 \pm 0,1$
- Distance from eightieth vertical line to eighty-first vertical line:  $1,42 \pm 0,1$
- Distance from eighty-first vertical line to eighty-second vertical line:  $2,84 \pm 0,1$
- Distance from eighty-second vertical line to eighty-third vertical line:  $1,42 \pm 0,1$
- Distance from eighty-third vertical line to eighty-fourth vertical line:  $2,84 \pm 0,1$
- Distance from eighty-fourth vertical line to eighty-fifth vertical line:  $1,42 \pm 0,1$
- Distance from eighty-fifth vertical line to eighty-sixth vertical line:  $2,84 \pm 0,1$
- Distance from eighty-sixth vertical line to eighty-seventh vertical line:  $1,42 \pm 0,1$
- Distance from eighty-seventh vertical line to eighty-eighth vertical line:  $2,84 \pm 0,1$
- Distance from eighty-eighth vertical line to eighty-ninth vertical line:  $1,42 \pm 0,1$
- Distance from eighty-ninth vertical line to ninetyth vertical line:  $2,84 \pm 0,1$
- Distance from ninetyth vertical line to ninety-first vertical line:  $1,42 \pm 0,1$
- Distance from ninety-first vertical line to ninety-second vertical line:  $2,84 \pm 0,1$
- Distance from ninety-second vertical line to ninety-third vertical line:  $1,42 \pm 0,1$
- Distance from ninety-third vertical line to ninety-fourth vertical line:  $2,84 \pm 0,1$
- Distance from ninety-fourth vertical line to ninety-fifth vertical line:  $1,42 \pm 0,1$
- Distance from ninety-fifth vertical line to ninety-sixth vertical line:  $2,84 \pm 0,1$
- Distance from ninety-sixth vertical line to ninety-seventh vertical line:  $1,42 \pm 0,1$
- Distance from ninety-seventh vertical line to ninety-eighth vertical line:  $2,84 \pm 0,1$
- Distance from ninety-eighth vertical line to ninety-ninth vertical line:  $1,42 \pm 0,1$
- Distance from ninety-ninth vertical line to one hundredth vertical line:  $2,84 \pm 0,1$
- Distance from one hundredth vertical line to one hundred and first vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and first vertical line to one hundred and second vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and second vertical line to one hundred and third vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and third vertical line to one hundred and fourth vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and fourth vertical line to one hundred and fifth vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and fifth vertical line to one hundred and sixth vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and sixth vertical line to one hundred and seventh vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and seventh vertical line to one hundred and eighth vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and eighth vertical line to one hundred and ninth vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and ninth vertical line to one hundred and tenth vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and tenth vertical line to one hundred and eleventh vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and eleventh vertical line to one hundred and twelfth vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and twelfth vertical line to one hundred and thirteenth vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and thirteenth vertical line to one hundred and fourteenth vertical line:  $2,84 \pm 0,1$
- Distance from one hundred and fourteenth vertical line to one hundred and fifteenth vertical line:  $1,42 \pm 0,1$
- Distance from one hundred and fifteenth vertical line to one hundred and sixteenth vertical line:  $$

|                                                                                                                                                                                  |                                  |             |      |           |                                                                                      |                                                                                                     |                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|------|-----------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|
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|                                                                                                                                                                                  |                                  |             |      |           |                                                                                      |                                                                                                     | material: SEE SHEET 1                                                                         |  |
|                                                                                                                                                                                  |                                  |             |      |           | date                                                                                 | name                                                                                                | title:<br>P.C.B. HOLE DRILLINGS<br>D-SUB MALE 25.pos. SOLDER PIN<br>with threaded spacer clip |  |
|                                                                                                                                                                                  |                                  |             |      |           | drawn 08.01.13                                                                       | Henneboel                                                                                           |                                                                                               |  |
|                                                                                                                                                                                  |                                  |             |      |           | appd. 08.01.13                                                                       | Fischer                                                                                             |                                                                                               |  |
|                                                                                                                                                                                  |                                  |             |      |           | norm                                                                                 |                                                                                                     |                                                                                               |  |
|                                                                                                                                                                                  |                                  |             |      |           | d-old                                                                                |                                                                                                     | dwg no:<br><br>16K1A3165                                                                      |  |
|                                                                                                                                                                                  | a                                | Original    |      |           |  |                                                                                                     |                                                                                               |  |
|                                                                                                                                                                                  | rev.                             | description | date | name      |                                                                                      |                                                                                                     | part no: SEE SHEET 1                                                                          |  |
|                                                                                                                                                                                  |                                  |             |      |           |                                                                                      |                                                                                                     | DIN-A3<br>sh:2/2                                                                              |  |