



# DEUTSCH DBAS SERIES CONNECTORS

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STANDARDS SAE/AS81703 SERIES III, UTE 93422 MODEL HE 311

Extreme Reliability in Harsh Aerospace and Military Applications

# Introduction

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## High Performance

- Compliant with SAE/AS81703 series III, UTE C 93-422 model HE 311 specifications and ESA/SCC 3401
- Up to 1500 full mating/unmating cycles
- Multiple specific variants for high temperature, cryogenic and pyrotechnic applications, EMI shielding, Dead-Face systems, 1553 Bus, High Speed, HF High Frequency

## High Reliability

- Visual and sensitive push-pull locking system (blind mating)
- Double keying system to help prevent any cross connection
- Leading clip preventing any accidental unmating on demand

## Custom Design for Integrated Solutions

- Large range of shell types and accessories
- Wide range of insert arrangements
- Multiple surface finishing options
- Large possibilities of specific modifications

## SECTION 1:

### DBAS 7 Series Connectors

## SECTION 2:

### DBAS 7 - ESA/SCC QPL Connectors

Overall dimensions and characteristics are given for indication guidance only. We reserve the right to modify them for production improvement reasons.



### 40 Years of Expertise in the Aerospace Industry



# DEUTSCH DBAS Series Connectors

## Section 1: DEUTSCH DBAS 7 Series

### Connection Reliability

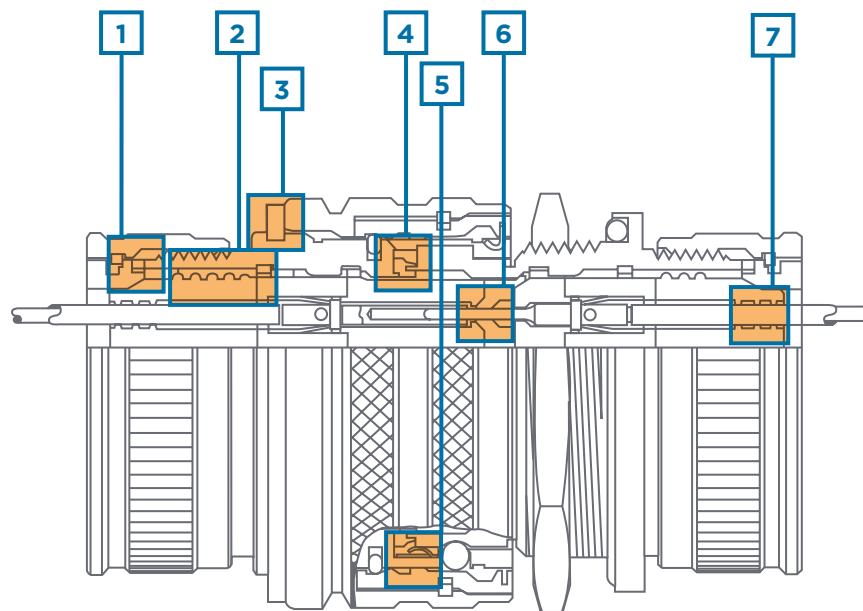
- Visual and sensitive locking (blind mating)
- Double keying system to prevent any cross connection
- Leading clip preventing any accidental unmating on demand
- Interface and individual wire sealing

### Large Range of Variants and Accessories

- Mobile and “rack and panel” plugs, plugs with heavy duty lanyard
- Sealed receptacles and hermetic receptacles and feedthrough
- Removable contacts size 6 to 22, crimp, solder and PCB types
- Savers, protective caps and dummy receptacles

### Custom Design for Integrated Solutions

- Cryogenic and High Temperature versions
- Dead-Face systems
- Specials (High Speed, HF, pyrotechnic, 1553 bus)



- 1 Connector rear part fitted with teeth anti-rotation system ensure effective tightening and clamping of accessories
- 2 Shell/insert sealing assumed by potting
- 3 Leading clip for plugs to help prevent any accidental unmating on demand (see page 33)
- 4 Interface sealing assumed by H.F. gasket
- 5 Improved shell to shell continuity supported by RFI fingers on plugs (see page 8, index G)
- 6 Individual contact sealing at mating thanks to compression of elastomer on hard insert.
- 7 Individual wire sealing due to several sealing barriers on rear insert

# DEUTSCH DBAS Series Connectors

## Technical Characteristics

### Mechanical

|                           |                   |                  |                                                                                                                                                                                                                                                                                                    |
|---------------------------|-------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shell                     | Material          | Sealed version   | Aluminium alloy                                                                                                                                                                                                                                                                                    |
|                           |                   | Hermetic version | DBC - DHS: Steel<br>DBA: Stainless steel                                                                                                                                                                                                                                                           |
|                           | Plating           | Sealed version   | Standard: Nickel<br>Special: consult us                                                                                                                                                                                                                                                            |
|                           |                   | Hermetic version | DBC - DHS: Tin over nickel plating                                                                                                                                                                                                                                                                 |
| RFI ring                  | Material          |                  | Beryllium copper                                                                                                                                                                                                                                                                                   |
|                           | Plating           |                  | Nickel                                                                                                                                                                                                                                                                                             |
| Insert                    | Material          | Sealed version   | Fluorinated silicone and thermosetting resin                                                                                                                                                                                                                                                       |
|                           |                   | Hermetic version | Glass insert, thermosetting resin, fluorinated silicone                                                                                                                                                                                                                                            |
|                           | Fluids resistance |                  | Compliant with SAE/AS 81703                                                                                                                                                                                                                                                                        |
| Contact                   | Type              | Sealed version   | Crimp type                                                                                                                                                                                                                                                                                         |
|                           |                   | Hermetic version | DBC - DBA: Soldered bucket                                                                                                                                                                                                                                                                         |
|                           | Plating           | Sealed version   | Gold over nickel                                                                                                                                                                                                                                                                                   |
|                           |                   | Hermetic version | DBC - DBA - DHS: Gold                                                                                                                                                                                                                                                                              |
| Insert contact retention  |                   |                  | Size 22: 4.40 daN                                                                                                                                                                                                                                                                                  |
|                           |                   |                  | Size 20: 6.93 daN                                                                                                                                                                                                                                                                                  |
|                           |                   |                  | Size 16: 11.56 daN                                                                                                                                                                                                                                                                                 |
|                           |                   |                  | Size 12: 11.56 daN<br>Size 8: 11.56 daN<br>Size 6: 11.56 daN                                                                                                                                                                                                                                       |
| Vibrations                |                   |                  | No mechanical nor electrical failure further to 12 hours vibration (4 hours in the 3 axes) 20 G from 10 to 2000 Hz. Resistance to sinusoidal and random vibrations 20 G effect during 3 minutes from 20 to 2000 Hz. Resistance to critical frequencies and constant accelerations, to pyrotechnic. |
| Physical shocks           |                   | Sealed version   | 150 G, during 11 ms in the 3 axes and to free drops                                                                                                                                                                                                                                                |
|                           |                   | Hermetic version | 100 G, during 11 ms in the 3 axes                                                                                                                                                                                                                                                                  |
| Durability                |                   | Sealed version   | 1500 full mating / unmating cycles                                                                                                                                                                                                                                                                 |
|                           |                   | Hermetic version | 500 full mating / unmating cycles                                                                                                                                                                                                                                                                  |
| Pressure insert retention |                   | Hermetic version | 30 to 70 bars                                                                                                                                                                                                                                                                                      |
| Sealing                   |                   | Hermetic version | Less than to 2,8 mm <sup>3</sup> /hour under a 1x10 <sup>-6</sup> torr vacuum                                                                                                                                                                                                                      |

### Environmental Conditions

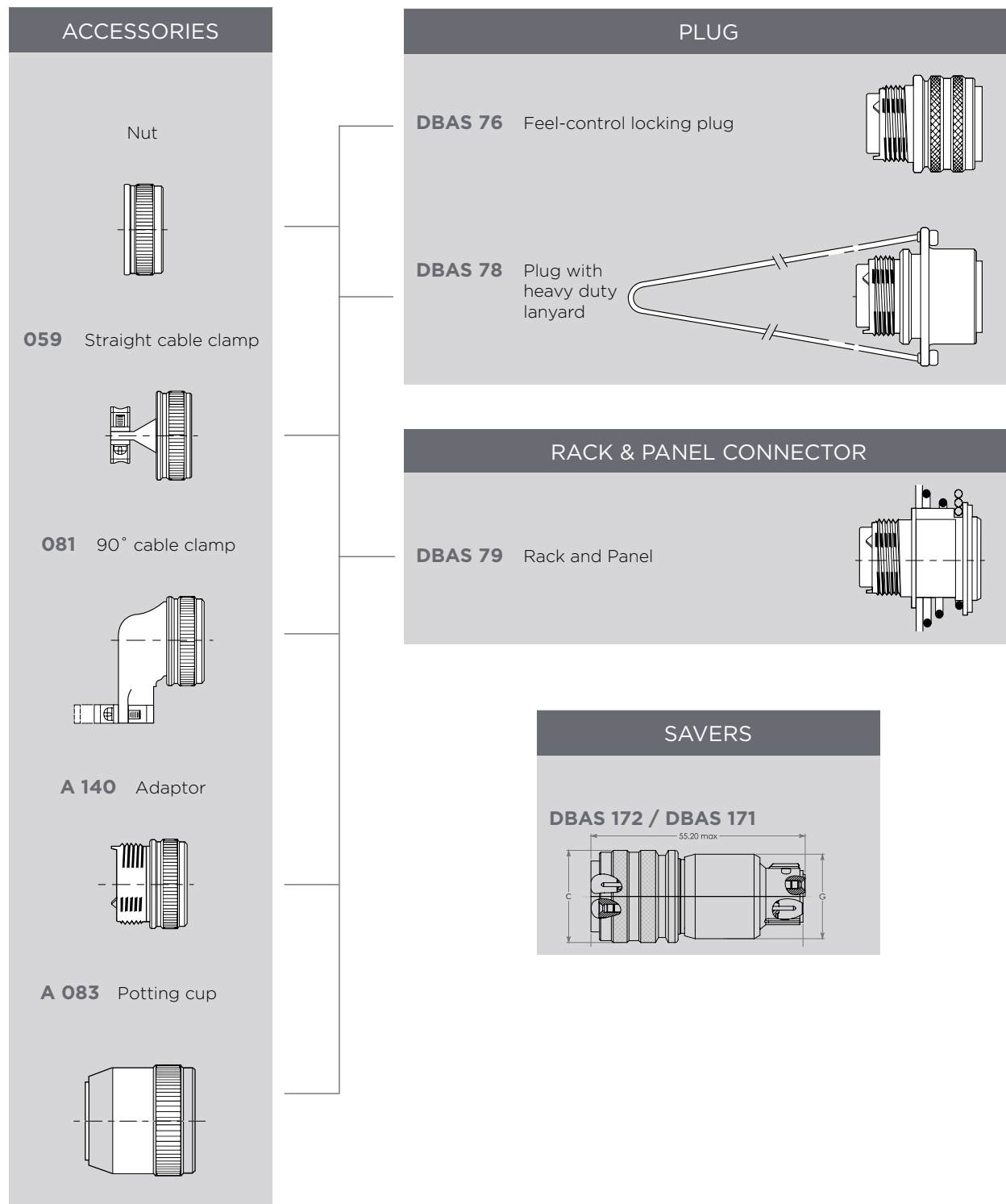
|                     |                             |                                                                                    |
|---------------------|-----------------------------|------------------------------------------------------------------------------------|
| Service temperature |                             | - 55° C to + 200° C                                                                |
| Thermal shocks      |                             | 5 cycles of - 55° C to + 200° C                                                    |
| Inferior leakage    |                             | Leakage inferior to 16 cm <sup>3</sup> /hour under a 2,1 bar differential pressure |
| Corrosion           | Sealed and Hermetic version | Withstands 96 hours of salt spray                                                  |

### Electrical

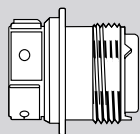
|                                 |                        |                  |                                       |                                       |
|---------------------------------|------------------------|------------------|---------------------------------------|---------------------------------------|
| Withstanding voltage            |                        | At sea level     | Service I: 1500 V eff. 50 Hz          | Service II: 2300 V eff. 50 Hz         |
|                                 |                        | In altitude      | At 33000 m Service I: 350 V           | Service II: 500 V                     |
| Service voltage                 |                        | Hermetic version | Service I: 600 Veff. 50 Hz            | Service II: 1000 Veff. 50 Hz          |
| Insulation resistance           |                        | Sealed version   | ≥ at 10 000 MΩ at 25° C and 60% R.H.  |                                       |
|                                 |                        | Hermetic version | ≥ at 5000 MΩ at 25° C and 60 % R.H.   |                                       |
| Mated shell conductivity        | Plugs with RFI fingers | Sealed version   | ≤ 5 mΩ                                |                                       |
|                                 |                        | Hermetic version | ≤ 50 mΩ                               |                                       |
| Contact maximum current         |                        | Sealed version   | Size 22: 5 A                          | Size 12: 23 A                         |
|                                 |                        |                  | Size 20: 7.5 A                        | Size 8: 46 A                          |
|                                 |                        |                  | Size 16: 13 A                         |                                       |
|                                 |                        | Hermetic version | Size 20: 5 A                          | Size 12: 17 A                         |
|                                 |                        |                  | Size 16: 10 A                         | Size 8: 33 A                          |
| Diameter over insulating sheath |                        |                  | Size 22: 0.71 to 1.25 mm              | Size 12: 2.69 to 4.01 mm              |
|                                 |                        |                  | Size 20: 1.01 to 2.10 mm              | Size 8: 3.80 to 5.15mm                |
|                                 |                        |                  | Size 16: 1.35 to 2.62 mm              | Size 6: 4.80 to 5.35 mm               |
| Allowed wires section           |                        | Sealed version   | Size 22: 0.15 to 0.38 mm <sup>2</sup> | Size 12: 1.91 to 3.18 mm <sup>2</sup> |
|                                 |                        |                  | Size 20: 0.21 to 0.60 mm <sup>2</sup> | Size 8: 5.30 to 8.98 mm <sup>2</sup>  |
|                                 |                        |                  | Size 16: 0.60 to 1.34 mm <sup>2</sup> | Size 6: See page 42                   |
|                                 |                        | Hermetic version | For solder type contacts DBC-DBA      |                                       |
|                                 |                        |                  | Size 20: 0.93 mm <sup>2</sup>         | Size 12: 3.18 mm <sup>2</sup>         |
|                                 |                        |                  | Size 16: 1.34 mm <sup>2</sup>         | Size 8: 8.98 mm <sup>2</sup>          |

# DEUTSCH DBAS Series Connectors

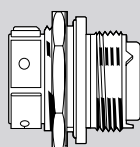
## Synoptic



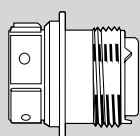
## RECEPTACLES



**DBAS 70** Square flange 4 holes mounting

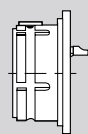


**DBAS 74** Jam-nut mounted receptacle

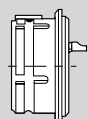


**DBAS 71** Cable connecting receptacle

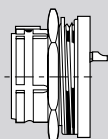
## HERMETICAL RECEPTACLES



**DBA 70H** Square flange 4 holes mounting  
**DBC 70H**



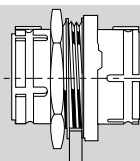
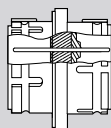
**DBA 73H** Solder flange  
**DBC 73H**



**DBA 74H** Jam-nut mounted receptacle  
**DBC 74H**

## HERMETIC FEEDTHROUGH

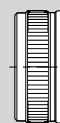
**DHS 70H** Square flange 4 holes mounting



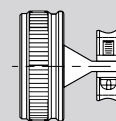
**DHS 74H** Jam-nut mounted receptacle

## ACCESSORIES

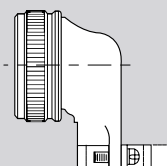
Nut



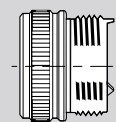
**059** Straight cable clamp



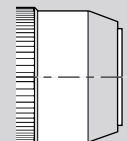
**081** 90° cable clamp



**A 140** Adaptor



**A 083** Potting cup



# DEUTSCH DBAS Series Connectors

## Part Numbering System

|                                                                                                                                                                                                                                                                   |             |           |          |           |           |          |          |          |           |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|----------|-----------|-----------|----------|----------|----------|-----------|-------------|
|                                                                                                                                                                                                                                                                   | <b>DBAS</b> | <b>76</b> | <b>G</b> | <b>27</b> | <b>13</b> | <b>P</b> | <b>N</b> | <b>8</b> | <b>DA</b> | <b>****</b> |
| <b>Connector type</b>                                                                                                                                                                                                                                             |             |           |          |           |           |          |          |          |           |             |
| <b>Shell type</b><br>70 Square flange receptacle with nut<br>71 Cable connecting receptacle with nut<br>74 Jam-nut mounting receptacle with nut<br>76 Feel-control locking plug with nut<br>78 Plug with heavy duty lanyard and nut<br>79 Rack and panel with nut |             |           |          |           |           |          |          |          |           |             |
| <b>Grounding continuity index (only for plugs)</b><br>Without Index: no RFI fingers on shells 76 - 78 - 79<br>With G Index: with RFI fingers on shells 76 - 78 - 79<br>With GR Index: with RFI fingers on shell 78 + increased minimum release force              |             |           |          |           |           |          |          |          |           |             |
| <b>Shell size</b><br><b>3-7-12-19-27-37-61</b>                                                                                                                                                                                                                    |             |           |          |           |           |          |          |          |           |             |
| <b>Arrangements</b><br>(See page 12-13)                                                                                                                                                                                                                           |             |           |          |           |           |          |          |          |           |             |
| <b>Contact type</b><br>P Pin contact<br>S Socket contact                                                                                                                                                                                                          |             |           |          |           |           |          |          |          |           |             |
| <b>Insert clocking position</b><br><b>N</b> Normal<br><b>W - X - Y - B - C</b> Others<br>(See page 10)                                                                                                                                                            |             |           |          |           |           |          |          |          |           |             |
| <b>Index for contacts*</b><br>(See pages 39, 41-43 )                                                                                                                                                                                                              |             |           |          |           |           |          |          |          |           |             |
| <b>Key orientation (Except 79)</b><br>(See page 11)                                                                                                                                                                                                               |             |           |          |           |           |          |          |          |           |             |
| <b>Special modifications</b><br>(See page 14)                                                                                                                                                                                                                     |             |           |          |           |           |          |          |          |           |             |

\* Micro-coax sizes 16 and 12 available (see pages 41 and 42).

# DEUTSCH DBAS Series Connectors

## Part Numbering System

|                                                                                                                                                |            |           |          |           |          |          |          |          |           |             |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|----------|-----------|----------|----------|----------|----------|-----------|-------------|
|                                                                                                                                                | <b>DBA</b> | <b>70</b> | <b>H</b> | <b>27</b> | <b>2</b> | <b>P</b> | <b>N</b> | <b>1</b> | <b>DA</b> | <b>****</b> |
| <b>Connector type</b><br>DBA Stainless steel hermetic receptacle, solder contact<br>DBC Hermetic receptacle, solder contact<br>DHS Feedthrough |            |           |          |           |          |          |          |          |           |             |
| <b>Shell type</b><br><b>70</b> Square flange receptacle<br><b>73</b> Solder flange receptacle<br><b>74</b> Jam-nut mounted receptacle          |            |           |          |           |          |          |          |          |           |             |
| <b>Hermetic</b>                                                                                                                                |            |           |          |           |          |          |          |          |           |             |
| <b>Shell size</b><br>3-7-12-19-27-37-61                                                                                                        |            |           |          |           |          |          |          |          |           |             |
| <b>Arrangements</b><br>(See pages 12-13)                                                                                                       |            |           |          |           |          |          |          |          |           |             |
| <b>Contact type</b><br><b>P</b> Male contact<br><b>S</b> Female contact ●<br><b>PP</b> Male/male contact ●<br><b>PS</b> Male/Female contact ●  |            |           |          |           |          |          |          |          |           |             |
| <b>Insert clocking position</b><br><b>N</b> Normal<br><b>W - X - Y - B - C</b> Others<br>(See page 10)                                         |            |           |          |           |          |          |          |          |           |             |
| <b>Index for contacts*</b><br>(See pages 39, 41-43 )                                                                                           |            |           |          |           |          |          |          |          |           |             |
| <b>Key orientation</b><br>(See page 11)                                                                                                        |            |           |          |           |          |          |          |          |           |             |
| <b>Special modifications</b><br>(See page 14)                                                                                                  |            |           |          |           |          |          |          |          |           |             |

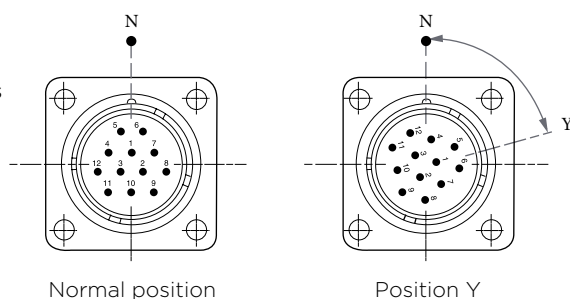
\* Micro-coax sizes 16 and 12 available (see pages 41 and 42).

● Only for DHS.

# DEUTSCH DBAS Series Connectors

## Insert Clocking Position

Clocking position is normal (N) when the insert vertical axis is intermingled with the shell keyway axis. An unkeying can be performed between 2 connectors of same layout by angular displacement of one of the inserts in its shell. This insert rotation is made in the clockwise for male layouts and in the counter clockwise for female layouts. Angular displacements on the hereafter table give clocking position W, X, Y, B or C.



Example of insert angular displacement, male front face view

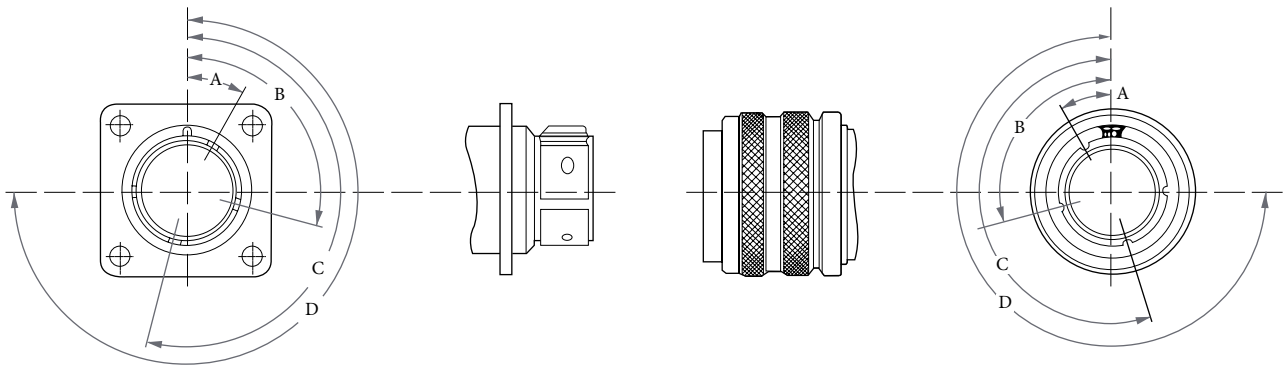
| Arrangements | Clocking Position in Degrees |       |       |     |        | Contacts Sizes |    |    |    |    |   | Service |
|--------------|------------------------------|-------|-------|-----|--------|----------------|----|----|----|----|---|---------|
|              | W                            | X     | Y     | B   | C      | 22             | 20 | 16 | 12 | 8  | 6 |         |
| 3-0          | 25                           | 50    | 75    | 150 | 220    | —              | 3  | —  | —  | —  | — | I       |
| 3-01         | —                            | —     | —     | —   | —      | —              | —  | —  | —  | 1  | — | —       |
| 7-0          | 27.30                        | 47.30 | 75    | 150 | 225    | —              | 7  | —  | —  | —  | — | I       |
| 12-0         | 15                           | 50    | 75    | 150 | 225    | —              | 12 | —  | —  | —  | — | I       |
| 19-0         | 25                           | 50    | 75    | 150 | 225    | —              | 19 | —  | —  | —  | — | I       |
| 19-2         | 25                           | 50    | 75    | 150 | 225    | —              | 9  | —  | —  | 2  | — | I       |
| 19-4         | —                            | —     | 22°30 | 135 | 247°30 | —              | —  | —  | 4  | —  | — | I       |
| 19-7         | —                            | —     | 75    | 150 | 225    | —              | —  | —  | 7  | —  | — | I       |
| 19-12        | 25                           | 50    | 75    | 150 | 225    | —              | —  | 12 | —  | —  | — | I       |
| 27-0         | 25                           | 50    | 75    | 150 | 225    | —              | 27 | —  | —  | —  | — | I       |
| 27-2         | 25                           | 50    | 75    | 150 | 225    | —              | —  | 14 | —  | —  | — | II      |
| 27-8         | 25                           | 50    | 75    | 150 | 225    | —              | —  | 6  | 4  | —  | — | I       |
| 27-13        | 25                           | 50    | 75    | 150 | 225    | —              | 12 | —  | —  | 3  | — | I       |
| 37-0         | 25                           | 50    | 75    | 150 | 225    | —              | 37 | —  | —  | —  | — | I       |
| 37-3         | 20                           | 70    | 75    | —   | —      | —              | —  | —  | 12 | —  | — | I       |
| 37-13        | —                            | —     | 75    | 150 | 225    | —              | 30 | —  | —  | 1  | — | I       |
| 37-19        | 25                           | 50    | 75    | 150 | 225    | —              | 13 | —  | —  | 6  | — | I       |
| 37-27        | —                            | —     | 75    | 150 | 225    | —              | 6  | —  | —  | 7  | — | I       |
| 37-30        | 25                           | 50    | 75    | 150 | 225    | —              | 20 | —  | —  | 4  | — | I       |
| 37-922       | 45                           | 90    | —     | —   | —      | —              | 20 | —  | —  | —  | 2 | I       |
| 37-924       | 105                          | 13    | —     | —   | —      | —              | —  | 24 | —  | —  | — | I       |
| 37-961       | —                            | —     | —     | —   | —      | 61             | —  | —  | —  | —  | — | —       |
| 61-0         | 25                           | 50    | 75    | 150 | 225    | —              | 61 | —  | —  | —  | — | I       |
| 61-5         | 25                           | 50    | 75    | 150 | 225    | —              | 49 | —  | —  | 2  | — | I       |
| 61-14        | 25                           | 50    | 75    | 150 | 225    | —              | —  | 37 | —  | —  | — | —       |
| 61-21        | 25                           | 50    | 75    | 150 | 225    | —              | —  | —  | —  | 12 | — | I       |
| 61-42        | —                            | 67°30 | —     | —   | —      | —              | 29 | 4  | 8  | —  | — | —       |
| 61-929       | —                            | —     | —     | —   | —      | —              | 15 | 8  | —  | 6  | — | —       |
| 61-948       | 45                           | 90    | 135   | —   | —      | —              | 42 | 4  | —  | —  | 2 | I       |
| 61-949       | 25                           | 50    | 75    | 150 | 225    | —              | 46 | —  | —  | 3  | — | —       |

# DEUTSCH DBAS Series Connectors

## Key Orientation (Except 79)

Receptacle front face view

Plug front face view



| Angles<br>Size | 3  |    |     |   | 7  |     |     |     | 12 |     |     |     | 19 |     |     |     | 27 |     |     |     | 37 |     |     |     | 61 |     |     |     |
|----------------|----|----|-----|---|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|
|                | A  | B  | C   | D | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   |
| Standard       | 23 | 97 | 187 | — | 23 | 97  | 187 | 277 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 |
| DA             | —  | —  | —   | — | 23 | 105 | 195 | 300 | 30 | 90  | 225 | 315 | 40 | 105 | 195 | 270 | 40 | 105 | 195 | 270 | 40 | 105 | 195 | 270 | 40 | 105 | 195 | 270 |
| DB             | —  | —  | —   | — | 23 | 115 | 210 | 285 | 30 | 120 | 210 | 285 | 30 | 115 | 195 | 270 | 30 | 115 | 195 | 270 | 30 | 115 | 195 | 270 | 30 | 115 | 195 | 270 |
| DC             | —  | —  | —   | — | 30 | 120 | 195 | 285 | 30 | 135 | 180 | 300 | 30 | 115 | 210 | 270 | 30 | 115 | 210 | 270 | 30 | 115 | 210 | 270 | 30 | 115 | 210 | 270 |
| DD             | —  | —  | —   | — | 30 | 97  | 210 | 270 | 45 | 105 | 210 | 315 | 30 | 115 | 195 | 280 | 30 | 115 | 195 | 280 | 30 | 115 | 195 | 280 | 30 | 115 | 195 | 280 |
| DE             | —  | —  | —   | — | —  | —   | —   | —   | 45 | 90  | 180 | 285 | —  | —   | —   | —   | —  | —   | —   | —   | 30 | 90  | 170 | 270 | 30 | 90  | 170 | 270 |
| DF             | —  | —  | —   | — | —  | —   | —   | —   | 45 | 120 | 270 | 300 | —  | —   | —   | —   | —  | —   | —   | —   | 30 | 115 | 170 | 255 | 30 | 115 | 170 | 255 |
| DG             | —  | —  | —   | — | —  | —   | —   | —   | 45 | 135 | 195 | 225 | —  | —   | —   | —   | —  | —   | —   | —   | 30 | 115 | 180 | 300 | 30 | 115 | 180 | 300 |

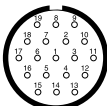
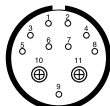
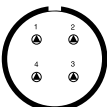
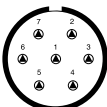
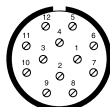
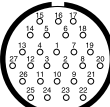
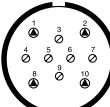
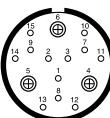
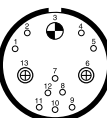
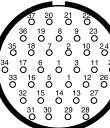
Dimensions in mm



# DEUTSCH DBAS Series Connectors

## Arrangements

### Male insert viewed from front face

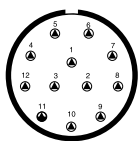
|                                                                                                                                                 |                                                                                                                                                                      |                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3-0</b><br>3 contacts size 20<br>                           | <b>3-01</b><br>1 contact size 8<br>                                                 | <b>7-0</b><br>7 contacts size 20<br>                          |
| <b>12-0</b><br>12 contacts size 20<br>                         | <b>19-0</b><br>19 contacts size 20<br>                                              | <b>19-2</b><br>9 contacts size 20<br>2 contacts size 8<br>    |
| <b>19-4</b><br>4 contacts size 12<br>                        | <b>19-7</b><br>7 contacts size 12<br>                                             | <b>19-12</b><br>12 contacts size 16<br>                     |
| <b>27-0</b><br>27 contacts size 20<br>                       | <b>27-2</b><br>14 contacts size 16<br>                                            | <b>27-8</b><br>6 contacts size 16<br>4 contacts size 12<br> |
| <b>27-13</b><br>12 contacts size 20<br>3 contacts size 8<br> | <b>27-913</b><br>10 contacts size 20<br>2 contacts size 8<br>1 contact size 6<br> | <b>37-0</b><br>37 contacts size 20<br>                      |

\* For hermetic versions, consult TE Connectivity (TE).

# DEUTSCH DBAS Series Connectors

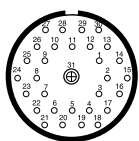
**37-3**

12 contacts size 12



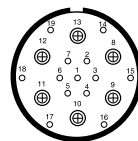
**37-13**

30 contacts size 20  
1 contact size 8



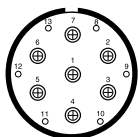
**37-19**

13 contacts size 20  
6 contacts size 8



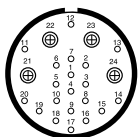
**37-27**

6 contacts size 20  
7 contacts size 8



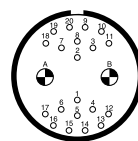
**37-30**

20 contacts size 20  
4 contacts size 8



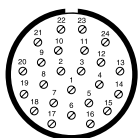
**37-922**

20 contacts size 20  
2 contacts size 6



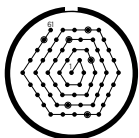
**37-924**

24 contacts size 16



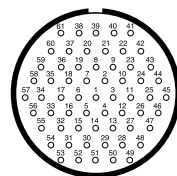
**37-961**

61 contacts size 22



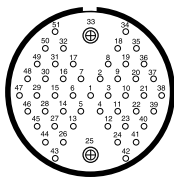
**61-0**

61 contacts size 20



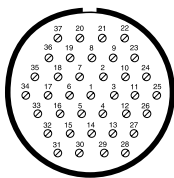
**61-5**

49 contacts size 20  
2 contacts size 8



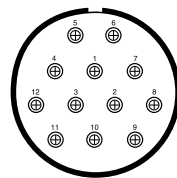
**61-14**

37 contacts size 16



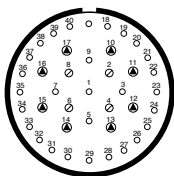
**61-21**

12 contacts size 8



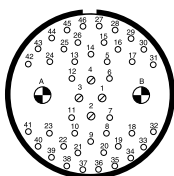
**61-42**

29 contacts size 20  
4 contacts size 16  
8 contacts size 12



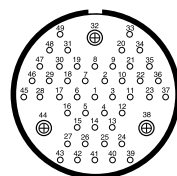
**61-948**

42 contacts size 20  
4 contacts size 16  
2 contacts size 6



**61-949**

46 contacts size 20  
3 contacts size 8



\* For hermetic versions, consult TE Connectivity (TE)

# DEUTSCH DBAS Series Connectors

## Special Modifications

| Mod Code | Description                             |
|----------|-----------------------------------------|
| 1A       | Without nut                             |
| O31      | Black anodised                          |
| O59      | Straight cable clamp                    |
| O81      | Elbowed cable clamp                     |
| O90      | Without contact                         |
| 395      | Kerosene-resistant insert               |
| A083     | Potting cup                             |
| A108     | Reverse marking                         |
| A127     | Panel nut with lockwire holes           |
| A140     | Adaptor                                 |
| A264     | PCB contacts                            |
| A838     | Olive drab cadmium                      |
| 6116     | Black anodised + without nut            |
| 6117     | Olive drab cadmium + without nut        |
| 5005     | Black anodised + straight cable clamp   |
| A1123    | Fluid resistance                        |
| A5532    | Kerosene-resistant insert + without nut |
| *****    | For other modifications, consult TE.    |

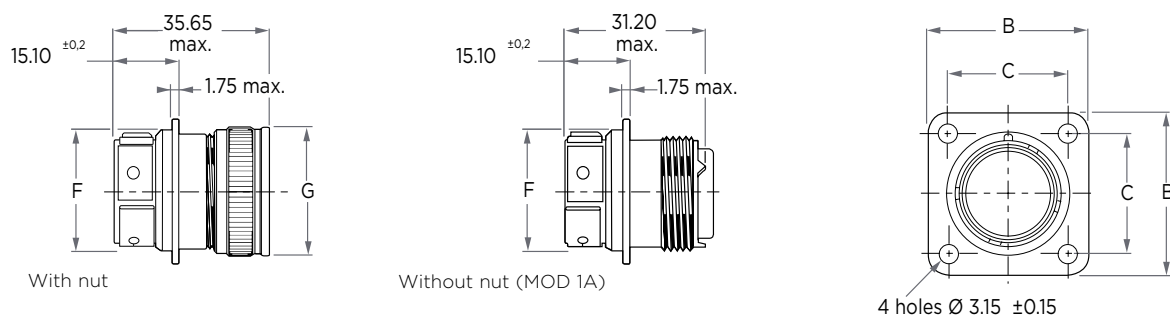
## Lengths of Lanyard

| MOD 614  | 3<br>± 2.10 | 7<br>± 2.10 | 12<br>± 2.10 | 19<br>± 2.10 | 27<br>± 2.10 | 37<br>± 2.10 | 61<br>± 2.10 |
|----------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Standard | 120.35      | 120.10      | 119.95       | 119.70       | 119.40       | 119.20       | 118.35       |
| A614     | 134.95      | 134.70      | 134.55       | 134.30       | 134.00       | 133.80       | 132.95       |
| B614     | 164.95      | 164.70      | 164.55       | 164.30       | 164.00       | 163.80       | 162.95       |
| C614     | 194.95      | 194.70      | 194.55       | 194.30       | 194          | 193.80       | 192.95       |
| D614     | 205.35      | 205.10      | 204.95       | 204.70       | 204.40       | 204.20       | 203.35       |
| E614     | 217.65      | 217.40      | 217.25       | 217.00       | 216.70       | 216.50       | 215.65       |
| F614     | 230.65      | 230.40      | 230.25       | 230.00       | 229.70       | 229.50       | 228.65       |
| G614     | 145.05      | 144.80      | 144.65       | 144.40       | 144.10       | 143.90       | 143.05       |
| H614     | 95.05       | 94.80       | 94.65        | 94.40        | 94.10        | 93.90        | 93.05        |
| K614     | 125.45      | 125.20      | 125.05       | 124.80       | 124.50       | 124.30       | 123.45       |
| L614     | 245.05      | 244.80      | 244.65       | 244.40       | 244.10       | 243.90       | 243.05       |
| M614     | 495.05      | 494.80      | 494.65       | 494.40       | 494.10       | 493.90       | 493.05       |
| N614     | 99.35       | 99.10       | 98.95        | 98.70        | 98.40        | 98.20        | 97.35        |
| P614     | 295.05      | 294.80      | 294.65       | 294.40       | 294.10       | 293.90       | 293.05       |
| Q614     | 191.05      | 190.80      | 190.65       | 194.40       | 190.10       | 189.90       | 189.05       |
| R614     | 109.65      | 109.40      | 109.25       | 109.00       | 108.70       | 108.50       | 107.65       |
| S614     | 154.25      | 154.00      | 153.85       | 153.60       | 153.30       | 153.10       | 152.25       |
| T614     | 76.05       | 75.80       | 75.65        | 75.40        | 75.10        | 74.90        | 74.05        |
| U614     | 119.47      | 119.22      | 119.07       | 118.82       | 118.52       | 118.32       | 117.47       |
| V614     | 87.75       | 87.50       | 87.35        | 87.10        | 86.80        | 86.60        | 85.75        |
| W614     | 385.55      | 385.30      | 385.15       | 384.90       | 384.60       | 384.40       | 383.55       |
| X614     | 171.65      | 171.40      | 171.25       | 171.00       | 170.70       | 170.50       | 169.65       |

For other lengths of lanyard, consult TE.  
Dimensions in mm

# DEUTSCH DBAS Series Connectors

## DBAS 70 - Square Flange Receptacle



| Part Number         | B max | C max | F max | G max | Part Number            |
|---------------------|-------|-------|-------|-------|------------------------|
| DBAS 70-3-**-P/S *  | 22.60 | 15.90 | 14.50 | 17.00 | DBAS 70-3-**-P/S * 1A  |
| DBAS 70-7-**-P/S *  | 25.80 | 18.26 | 17.35 | 21.80 | DBAS 70-7-**-P/S * 1A  |
| DBAS 70-12-**-P/S * | 28.20 | 20.62 | 20.80 | 25.00 | DBAS 70-12-**-P/S * 1A |
| DBAS 70-19-**-P/S * | 30.60 | 23.02 | 24.00 | 28.25 | DBAS 70-19-**-P/S * 1A |
| DBAS 70-27-**-P/S * | 33.00 | 24.58 | 28.65 | 30.95 | DBAS 70-27-**-P/S * 1A |
| DBAS 70-37-**-P/S * | 36.90 | 30.12 | 31.95 | 34.15 | DBAS 70-37-**-P/S * 1A |
| DBAS 70-61-**-P/S * | 45.70 | 36.48 | 39.90 | 42.00 | DBAS 70-61-**-P/S * 1A |

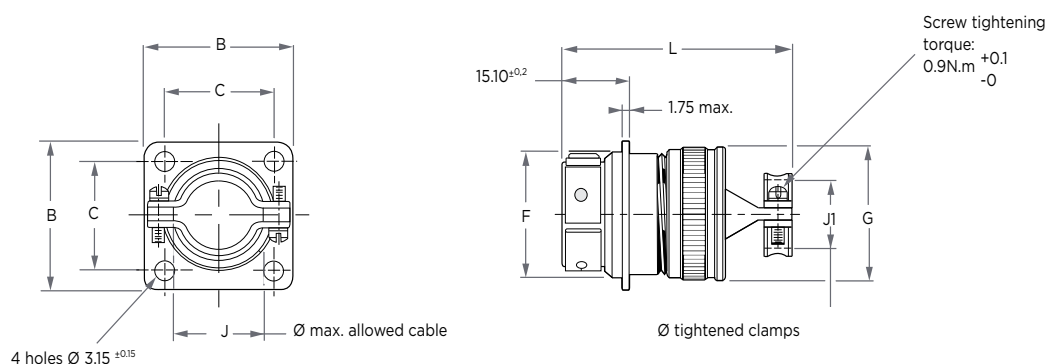
Dimensions in mm

### IMPORTANT NOTE:

Female inserts have an overlength of  $0.56^{+0.1}_{-0}$  in regards with FRONT face of all receptacles types 70, 71 and 74.

For accessories tightening torque strength, please refer to page 30.

## DBAS 70 - With Straight Cable Clamp



| Part Number             | B max | C ±0,1 | F max | G max | J mini | J1 max | L max |
|-------------------------|-------|--------|-------|-------|--------|--------|-------|
| DBAS 70-3-**-P/S * 059  | 22.60 | 15.90  | 14.50 | 17.00 | 6.60   | 5.15   | 44.60 |
| DBAS 70-7-**-P/S * 059  | 25.80 | 18.26  | 17.35 | 21.80 | 12.75  | 10.55  | 44.60 |
| DBAS 70-12-**-P/S * 059 | 28.20 | 20.62  | 20.80 | 25.00 | 14.60  | 12.05  | 50.60 |
| DBAS 70-19-**-P/S * 059 | 30.60 | 23.02  | 24.00 | 28.25 | 17.80  | 15.85  | 50.60 |
| DBAS 70-27-**-P/S * 059 | 33.00 | 24.58  | 28.65 | 30.95 | 19.80  | 17.90  | 50.60 |
| DBAS 70-37-**-P/S * 059 | 36.90 | 30.12  | 31.95 | 34.15 | 23.00  | 21.05  | 50.60 |
| DBAS 70-61-**-P/S * 059 | 45.70 | 36.48  | 39.90 | 42.00 | 30.10  | 27.40  | 50.60 |

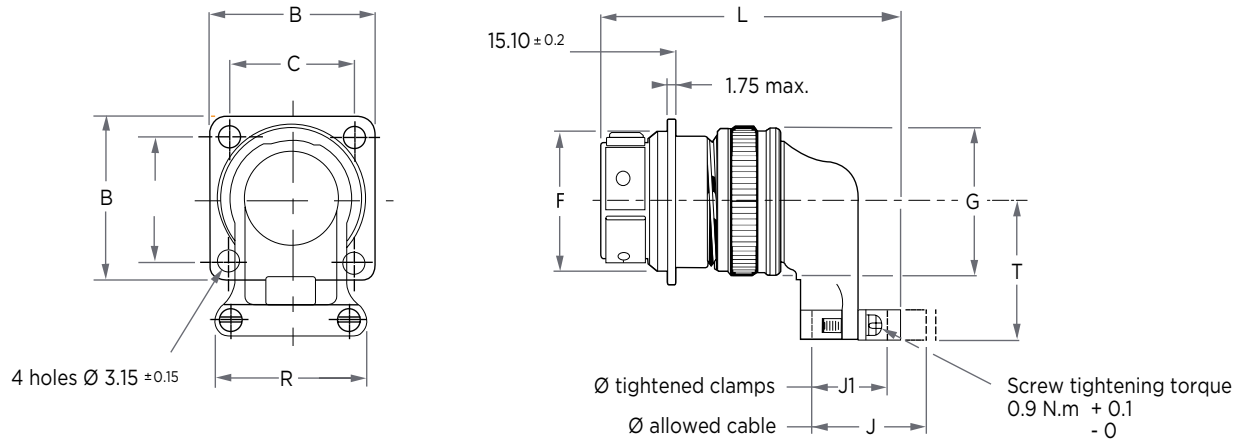
Dimensions in mm

Rear accessories tightening torque (See table page 30)

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0.56 \pm 0.1$  mm.  
Panel sealing gasket to be ordered separately, see page 33. Panel cutout, see page 37

# DEUTSCH DBAS Series Connectors

## DBAS 70 - With Elbowed Cable Clamp

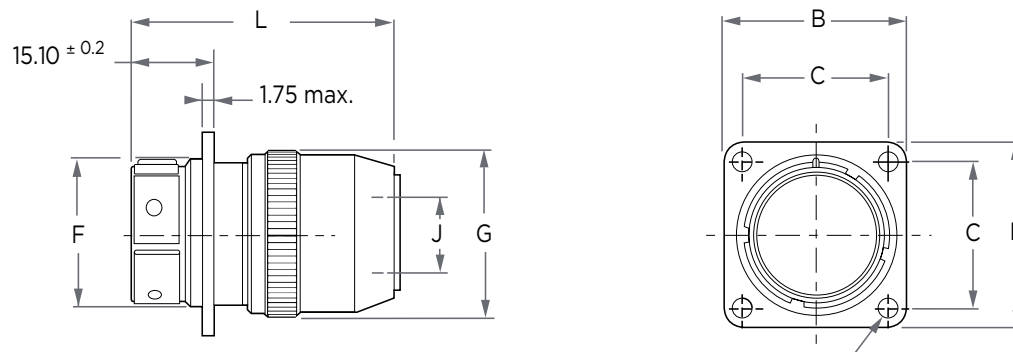


| Part Number             | B<br>max | C<br>$\pm 0,1$ | F<br>max | G<br>max | J<br>mini | J1<br>max | L<br>max | R<br>max | T<br>max |
|-------------------------|----------|----------------|----------|----------|-----------|-----------|----------|----------|----------|
| DBAS 70-3-** P/S * 081  | 22.60    | 15.90          | 14.50    | 17.00    | 6.60      | 5.15      | 48.80    | 17.40    | 21.40    |
| DBAS 70-7-** P/S * 081  | 25.80    | 18.26          | 17.35    | 21.80    | 12.75     | 10.55     | 53.90    | 23.60    | 23.80    |
| DBAS 70-12-** P/S * 081 | 28.20    | 20.62          | 20.80    | 25.00    | 14.60     | 12.05     | 56.15    | 25.50    | 25.30    |
| DBAS 70-19-** P/S * 081 | 30.60    | 23.02          | 24.00    | 28.25    | 17.80     | 15.85     | 59.55    | 29.70    | 26.80    |
| DBAS 70-27-** P/S * 081 | 33.00    | 24.58          | 28.65    | 30.95    | 19.80     | 17.90     | 63.00    | 32.60    | 28.30    |
| DBAS 70-37-** P/S * 081 | 36.90    | 30.12          | 31.95    | 34.15    | 23.00     | 21.05     | 66.35    | 36.00    | 29.90    |
| DBAS 70-61-** P/S * 081 | 45.70    | 36.48          | 39.90    | 42.00    | 30.10     | 27.40     | 72.95    | 42.80    | 33.50    |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

## DBAS 70 - With Potting Cup



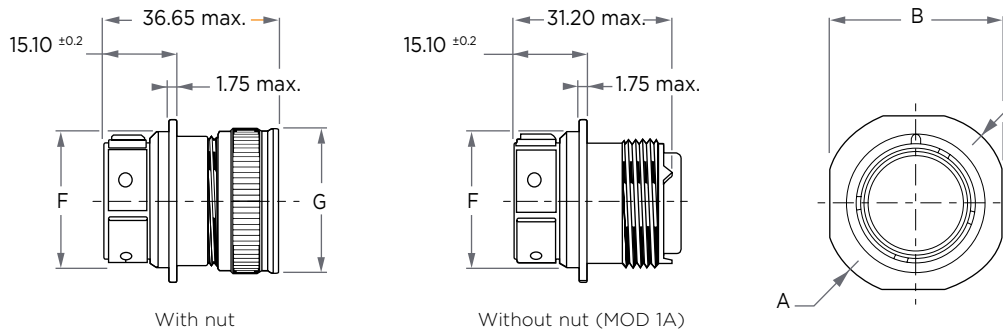
| Part Number               | B<br>max | C<br>$\pm 0,1$ | F<br>max | G<br>max | J<br>mini | L<br>max |
|---------------------------|----------|----------------|----------|----------|-----------|----------|
| DBAS 70-3-** P/S * A 083  | 22.60    | 15.90          | 14.50    | 17.00    | 4.60      | 43.50    |
| DBAS 70-7-** P/S * A 083  | 25.80    | 18.26          | 17.35    | 21.80    | 10.00     | 43.50    |
| DBAS 70-12-** P/S * A 083 | 28.20    | 20.62          | 20.80    | 25.00    | 11.50     | 49.00    |
| DBAS 70-19-** P/S * A 083 | 30.60    | 23.02          | 24.00    | 28.25    | 15.30     | 49.00    |
| DBAS 70-27-** P/S * A 083 | 33.00    | 24.58          | 28.65    | 30.95    | 17.30     | 49.00    |
| DBAS 70-37-** P/S * A 083 | 36.90    | 30.12          | 31.95    | 34.15    | 20.50     | 49.00    |
| DBAS 70-61-** P/S * A 083 | 45.70    | 36.48          | 39.90    | 42.00    | 26.80     | 49.00    |

Dimensions in mm

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0.56 \pm 0.1$  mm.  
Panel sealing gasket to be ordered separately, see page 33. Panel cutout, see page 37

# DEUTSCH DBAS Series Connectors

## DBAS 71 - Cable Connecting Receptacle

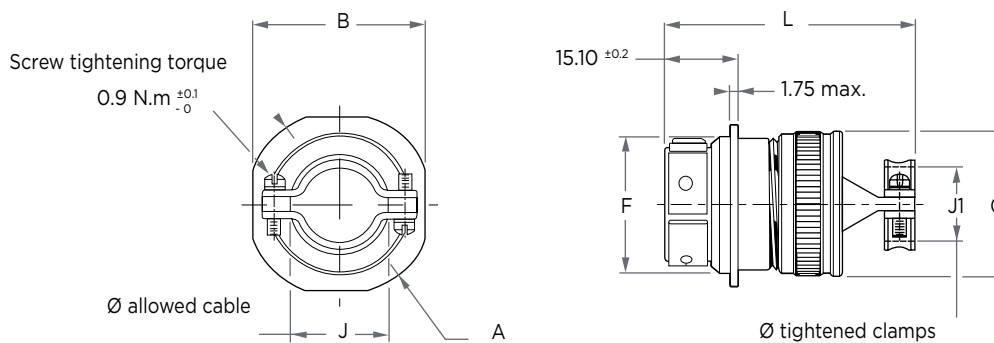


| Part Number         | A max | B max | F max | G max | Part Number            |
|---------------------|-------|-------|-------|-------|------------------------|
| DBAS 71-3-**-P/S *  | 25.45 | 22.60 | 14.50 | 17.00 | DBAS 71-3-**-P/S * 1A  |
| DBAS 71-7-**-P/S *  | 28.65 | 25.80 | 17.35 | 21.80 | DBAS 71-7-**-P/S * 1A  |
| DBAS 71-12-**-P/S * | 31.05 | 28.20 | 20.80 | 25.00 | DBAS 71-12-**-P/S * 1A |
| DBAS 71-19-**-P/S * | 33.45 | 30.60 | 24.00 | 28.25 | DBAS 71-19-**-P/S * 1A |
| DBAS 71-27-**-P/S * | 35.85 | 33.00 | 28.65 | 30.95 | DBAS 71-27-**-P/S * 1A |
| DBAS 71-37-**-P/S * | 39.75 | 36.90 | 31.95 | 34.15 | DBAS 71-37-**-P/S * 1A |
| DBAS 71-61-**-P/S * | 48.55 | 45.70 | 39.90 | 42.00 | DBAS 71-61-**-P/S * 1A |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

## DBAS 71 - With Straight Cable Clamp



| Part Number             | A max | B max | F max | G max | J mini | J1 max | L max |
|-------------------------|-------|-------|-------|-------|--------|--------|-------|
| DBAS 71-3-**-P/S * 059  | 25.45 | 22.60 | 14.50 | 17.00 | 6.60   | 5.15   | 44.60 |
| DBAS 71-7-**-P/S * 059  | 28.65 | 25.80 | 17.35 | 21.80 | 12.75  | 10.55  | 44.60 |
| DBAS 71-12-**-P/S * 059 | 31.05 | 28.20 | 20.80 | 25.00 | 14.60  | 12.05  | 50.60 |
| DBAS 71-19-**-P/S * 059 | 33.45 | 30.60 | 24.00 | 28.25 | 17.80  | 15.85  | 50.60 |
| DBAS 71-27-**-P/S * 059 | 35.85 | 33.00 | 28.65 | 30.95 | 19.80  | 17.90  | 50.60 |
| DBAS 71-37-**-P/S * 059 | 39.75 | 36.90 | 31.95 | 34.15 | 23.00  | 21.05  | 50.60 |
| DBAS 71-61-**-P/S * 059 | 48.55 | 45.70 | 39.90 | 42.00 | 30.10  | 27.40  | 50.60 |

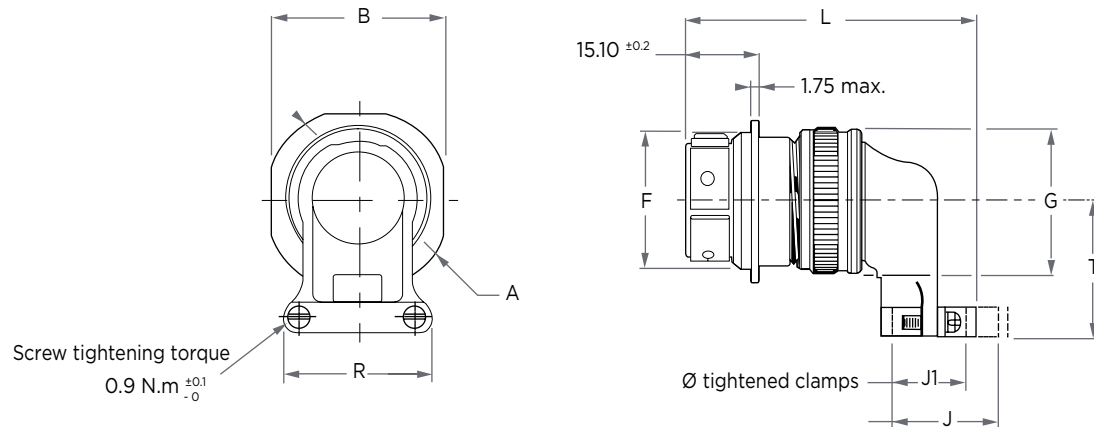
Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0.56 \pm 0.1$  mm.

# DEUTSCH DBAS Series Connectors

## DBAS 71 - With Elbowed Cable Clamp

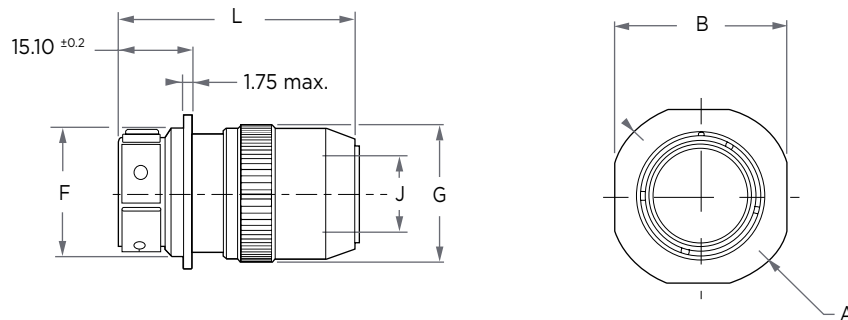


| Part Number             | A max | B max | F max | G max | J mini | J1 max | L max | R max | T max |
|-------------------------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| DBAS 71-3-**-P/S * 081  | 25.45 | 22.60 | 14.50 | 17.00 | 6.60   | 5.15   | 48.80 | 17.40 | 21.40 |
| DBAS 71-7-**-P/S * 081  | 28.65 | 25.80 | 17.35 | 21.80 | 12.75  | 10.55  | 53.90 | 23.60 | 23.80 |
| DBAS 71-12-**-P/S * 081 | 31.05 | 28.20 | 20.80 | 25.00 | 14.60  | 12.05  | 56.15 | 25.50 | 25.30 |
| DBAS 71-19-**-P/S * 081 | 33.45 | 30.60 | 24.00 | 28.25 | 17.80  | 15.85  | 59.55 | 29.70 | 26.80 |
| DBAS 71-27-**-P/S * 081 | 35.85 | 33.00 | 28.65 | 30.95 | 19.80  | 17.90  | 63.00 | 32.60 | 28.30 |
| DBAS 71-37-**-P/S * 081 | 39.75 | 36.90 | 31.95 | 34.15 | 23.00  | 21.05  | 66.35 | 36.00 | 29.90 |
| DBAS 71-61-**-P/S * 081 | 48.55 | 45.70 | 39.90 | 42.00 | 30.10  | 27.40  | 72.95 | 42.80 | 33.50 |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

## DBAS 71 - With Potting Cup



| Part Number               | A max | B max | F max | G max | J mini | L max |
|---------------------------|-------|-------|-------|-------|--------|-------|
| DBAS 71-3-**-P/S * A 083  | 25.45 | 22.60 | 14.50 | 17.00 | 4.60   | 43.50 |
| DBAS 71-7-**-P/S * A 083  | 28.65 | 25.80 | 17.35 | 21.80 | 10.00  | 43.50 |
| DBAS 71-12-**-P/S * A 083 | 31.05 | 28.20 | 20.80 | 25.00 | 11.50  | 49.00 |
| DBAS 71-19-**-P/S * A 083 | 33.45 | 30.60 | 24.00 | 28.25 | 15.30  | 49.00 |
| DBAS 71-27-**-P/S * A 083 | 35.85 | 33.00 | 28.65 | 30.95 | 17.30  | 49.00 |
| DBAS 71-37-**-P/S * A 083 | 39.75 | 36.90 | 31.95 | 34.15 | 20.50  | 49.00 |
| DBAS 71-61-**-P/S * A 083 | 48.55 | 45.70 | 39.90 | 42.00 | 26.80  | 49.00 |

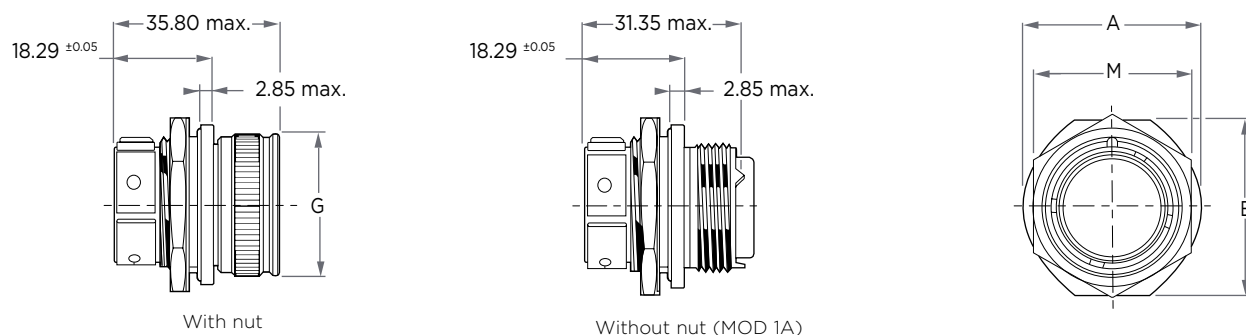
Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0.56 \pm 0.1$  mm.

# DEUTSCH DBAS Series Connectors

## DBAS 74 - Jam-Nut Mounting Receptacle

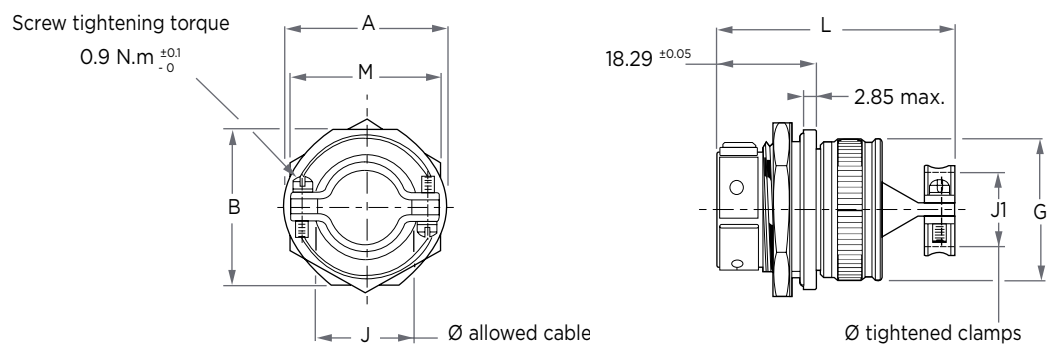


| Part Number         | A max | B max | G max | M max | Max. Nut Panel Tightening Torque | Part Number            |
|---------------------|-------|-------|-------|-------|----------------------------------|------------------------|
| DBAS 74-3-**-P/S *  | 19.20 | 19.20 | 17.00 | 16.31 | 0.70 daN.m                       | DBAS 74-3-**-P/S * 1A  |
| DBAS 74-7-**-P/S *  | 22.40 | 22.40 | 21.80 | 21.07 | 1.00 daN.m                       | DBAS 74-7-**-P/S * 1A  |
| DBAS 74-12-**-P/S * | 27.20 | 27.20 | 25.00 | 24.24 | 1.30 daN.m                       | DBAS 74-12-**-P/S * 1A |
| DBAS 74-19-**-P/S * | 30.40 | 29.60 | 28.25 | 27.40 | 1.50 daN.m                       | DBAS 74-19-**-P/S * 1A |
| DBAS 74-27-**-P/S * | 33.60 | 33.50 | 30.95 | 32.18 | 1.80 daN.m                       | DBAS 74-27-**-P/S * 1A |
| DBAS 74-37-**-P/S * | 38.30 | 36.30 | 34.15 | 35.36 | 2.20 daN.m                       | DBAS 74-37-**-P/S * 1A |
| DBAS 74-61-**-P/S * | 47.80 | 47.20 | 42.00 | 43.02 | 2.90 daN.m                       | DBAS 74-61-**-P/S * 1A |

Rear accessories tightening torque (See table page 30)

Dimensions in mm

## DBAS 74 - With Straight Cable Clamp



| Part Number             | A max | B max | G max | J max | J1 max | L max | M max | Max. Nut Panel Tightening Torque |
|-------------------------|-------|-------|-------|-------|--------|-------|-------|----------------------------------|
| DBAS 74-3-**-P/S * 059  | 19.20 | 19.20 | 17.00 | 6.60  | 5.15   | 44.80 | 16.31 | 0.70 daN.m                       |
| DBAS 74-7-**-P/S * 059  | 22.40 | 22.40 | 21.80 | 12.75 | 10.55  | 44.80 | 21.07 | 1.00 daN.m                       |
| DBAS 74-12-**-P/S * 059 | 27.20 | 27.20 | 25.00 | 14.60 | 12.05  | 50.80 | 24.24 | 1.30 daN.m                       |
| DBAS 74-19-**-P/S * 059 | 30.40 | 29.60 | 28.25 | 17.80 | 15.85  | 50.80 | 27.40 | 1.50 daN.m                       |
| DBAS 74-27-**-P/S * 059 | 33.60 | 33.50 | 30.95 | 19.80 | 17.90  | 50.80 | 32.18 | 1.80 daN.m                       |
| DBAS 74-37-**-P/S * 059 | 38.30 | 36.30 | 34.15 | 23.00 | 21.05  | 50.80 | 35.36 | 2.20 daN.m                       |
| DBAS 74-61-**-P/S * 059 | 47.80 | 47.20 | 42.00 | 30.10 | 27.40  | 50.80 | 43.02 | 2.90 daN.m                       |

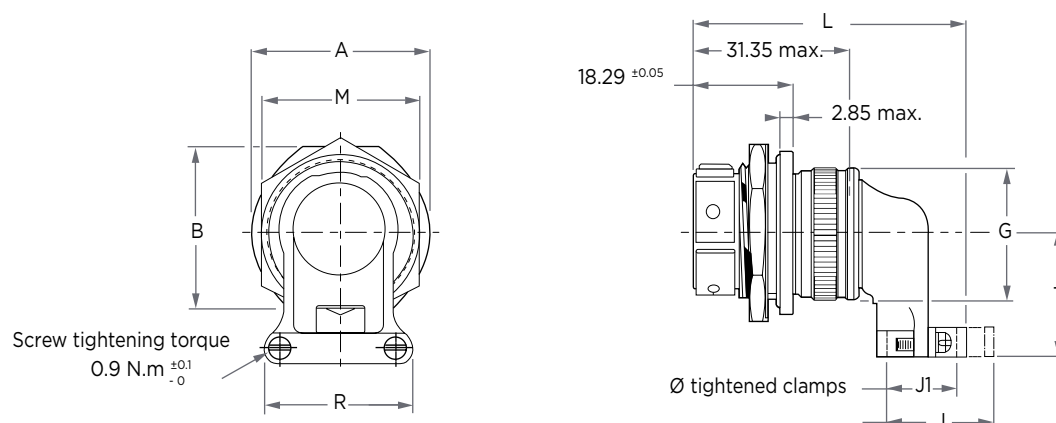
Rear accessories tightening torque (See table page 30)

Dimensions in mm

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0,56 \pm 0,1$  mm.  
O'ring to be ordered separately, see page 33. Panel cutout, see page 37.

# DEUTSCH DBAS Series Connectors

## DBAS 74 - With Elbowed Cable Clamp

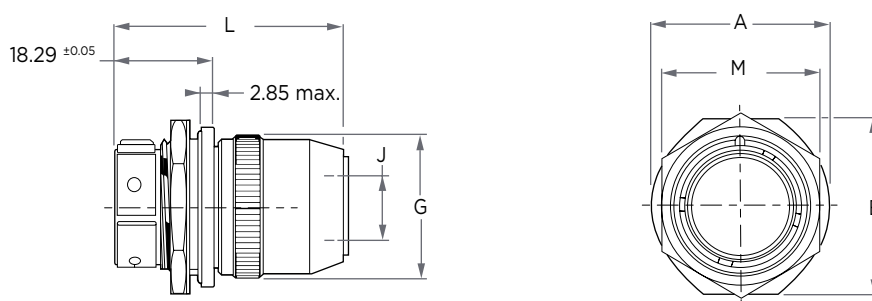


| Part Number             | A max | B max | G max | J max | J1 max | L max | M max | R max | T max | Max. Nut Panel Tightening Torque |
|-------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|----------------------------------|
| DBAS 74-3-** P/S * 081  | 19.20 | 19.20 | 17.00 | 6.60  | 5.15   | 48.95 | 16.31 | 17.40 | 21.40 | 0.70 daN.m                       |
| DBAS 74-7-** P/S * 081  | 22.40 | 22.40 | 21.80 | 12.75 | 10.55  | 54.05 | 21.07 | 23.60 | 23.80 | 1.00 daN.m                       |
| DBAS 74-12-** P/S * 081 | 27.20 | 27.20 | 25.00 | 14.60 | 12.05  | 56.30 | 24.24 | 25.50 | 25.30 | 1.30 daN.m                       |
| DBAS 74-19-** P/S * 081 | 30.40 | 29.60 | 28.25 | 17.80 | 15.85  | 59.70 | 27.40 | 29.70 | 26.80 | 1.50 daN.m                       |
| DBAS 74-27-** P/S * 081 | 33.60 | 33.50 | 30.95 | 19.80 | 17.90  | 63.15 | 32.18 | 32.60 | 28.30 | 1.80 daN.m                       |
| DBAS 74-37-** P/S * 081 | 38.30 | 36.30 | 34.15 | 23.00 | 21.05  | 66.50 | 35.36 | 36.00 | 29.90 | 2.20 daN.m                       |
| DBAS 74-61-** P/S * 081 | 47.80 | 47.20 | 42.00 | 30.10 | 27.40  | 73.10 | 43.02 | 42.80 | 33.50 | 2.90 daN.m                       |

Dimensions in mm

Rear accessories tightening torque (See table page 30)

## DBAS 74 - With Potting Cup



| Part Number               | A max | B max | G max | J mini | L max | M max | Max. Nut Panel Tightening Torque |
|---------------------------|-------|-------|-------|--------|-------|-------|----------------------------------|
| DBAS 74-3-** P/S * A 083  | 19.20 | 19.20 | 17.00 | 4.60   | 43.65 | 16.31 | 0.70 daN.m                       |
| DBAS 74-7-** P/S * A 083  | 22.40 | 22.40 | 21.80 | 10.00  | 43.65 | 21.07 | 1.00 daN.m                       |
| DBAS 74-12-** P/S * A 083 | 27.20 | 27.20 | 25.00 | 11.50  | 49.15 | 24.24 | 1.30 daN.m                       |
| DBAS 74-19-** P/S * A 083 | 30.40 | 29.60 | 28.25 | 15.30  | 49.15 | 27.40 | 1.50 daN.m                       |
| DBAS 74-27-** P/S * A 083 | 33.60 | 33.50 | 30.95 | 17.30  | 49.15 | 32.18 | 1.80 daN.m                       |
| DBAS 74-37-** P/S * A 083 | 38.30 | 36.30 | 34.15 | 20.50  | 49.15 | 35.36 | 2.20 daN.m                       |
| DBAS 74-61-** P/S * A 083 | 47.80 | 47.20 | 42.00 | 26.80  | 49.15 | 43.02 | 2.90 daN.m                       |

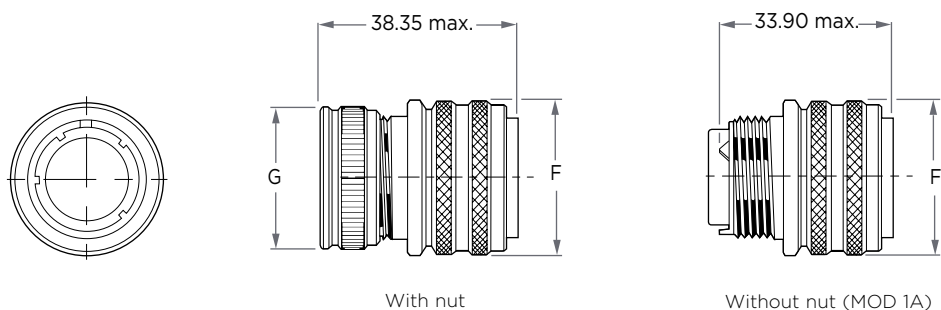
Dimensions in mm

Rear accessories tightening torque (See table page 30)

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0,56 \pm 0,1$  mm.  
O'ring to be ordered separately, see page 33. Panel cutout, see page 37.

# DEUTSCH DBAS Series Connectors

## DBAS 76 - Feel-Control Locking Plug

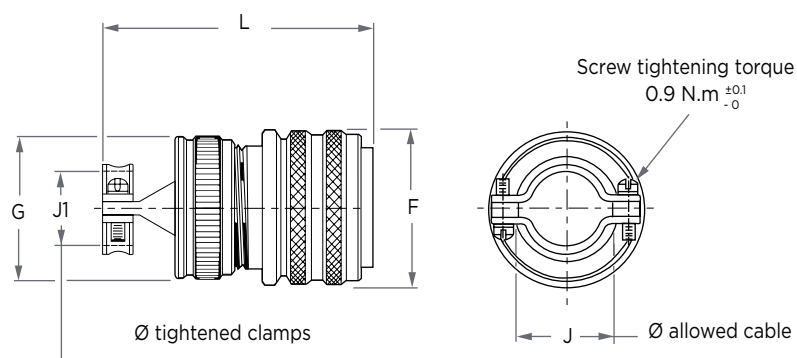


| Part Number         | F max. | G max. | Part Number            |
|---------------------|--------|--------|------------------------|
| DBAS 76-3-** P/S *  | 20.40  | 17.00  | DBAS 76-3-** P/S * 1A  |
| DBAS 76-7-** P/S *  | 23.70  | 21.80  | DBAS 76-7-** P/S * 1A  |
| DBAS 76-12-** P/S * | 26.90  | 25.00  | DBAS 76-12-** P/S * 1A |
| DBAS 76-19-** P/S * | 31.50  | 28.25  | DBAS 76-19-** P/S * 1A |
| DBAS 76-27-** P/S * | 36.10  | 30.95  | DBAS 76-27-** P/S * 1A |
| DBAS 76-37-** P/S * | 39.30  | 34.15  | DBAS 76-37-** P/S * 1A |
| DBAS 76-61-** P/S * | 47.30  | 42.00  | DBAS 76-61-** P/S * 1A |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

## DBAS 76 - With Straight Cable Clamp



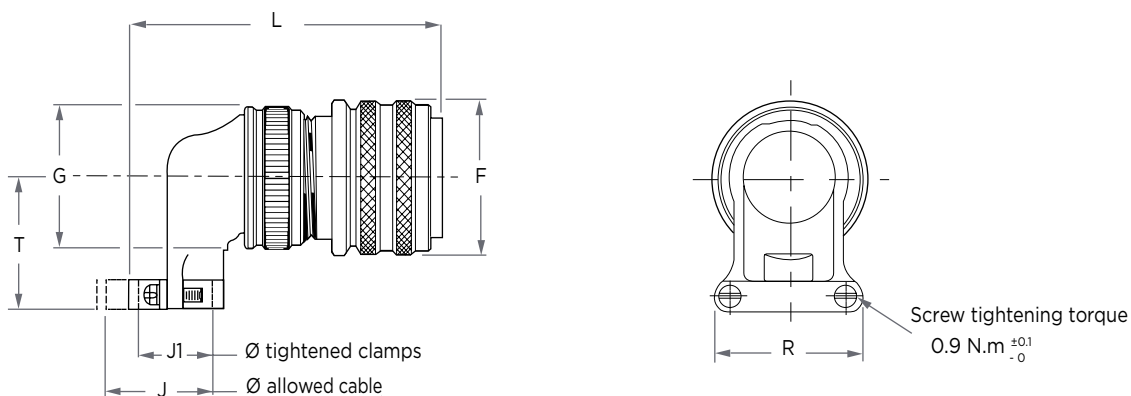
| Part Number             | F max. | G max. | J max. | J1 max. | L max. |
|-------------------------|--------|--------|--------|---------|--------|
| DBAS 76-3-** P/S * 059  | 20.40  | 17.00  | 6.60   | 5.15    | 47.35  |
| DBAS 76-7-** P/S * 059  | 23.70  | 21.80  | 12.75  | 10.55   | 47.35  |
| DBAS 76-12-** P/S * 059 | 26.90  | 25.00  | 14.60  | 12.05   | 53.35  |
| DBAS 76-19-** P/S * 059 | 31.50  | 28.25  | 17.80  | 15.85   | 53.35  |
| DBAS 76-27-** P/S * 059 | 36.10  | 30.95  | 19.80  | 17.90   | 53.35  |
| DBAS 76-37-** P/S * 059 | 39.30  | 34.15  | 23.00  | 21.05   | 53.35  |
| DBAS 76-61-** P/S * 059 | 47.30  | 42.00  | 31.10  | 27.40   | 53.35  |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

# DEUTSCH DBAS Series Connectors

## DBAS 76 - With Elbowed Cable Clamp

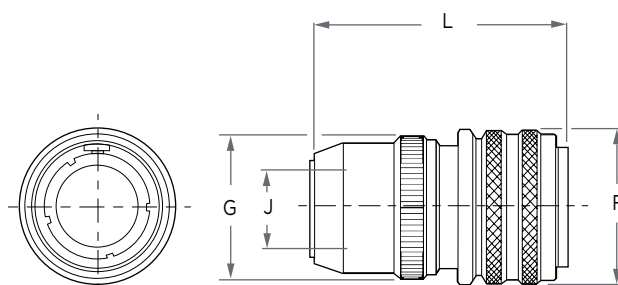


| Part Number             | F<br>max | G<br>max | J<br>max | J1<br>max | L<br>max | R<br>max | T<br>max |
|-------------------------|----------|----------|----------|-----------|----------|----------|----------|
| DBAS 76-3-** P/S * 081  | 20.40    | 17.00    | 6.60     | 5.15      | 51.50    | 17.40    | 21.40    |
| DBAS 76-7-** P/S * 081  | 23.70    | 21.80    | 12.75    | 10.55     | 56.60    | 23.60    | 23.80    |
| DBAS 76-12-** P/S * 081 | 26.90    | 25.00    | 14.60    | 12.05     | 58.85    | 25.50    | 25.30    |
| DBAS 76-19-** P/S * 081 | 31.50    | 28.25    | 17.80    | 15.85     | 62.25    | 29.70    | 26.80    |
| DBAS 76-27-** P/S * 081 | 36.10    | 30.95    | 19.80    | 17.90     | 65.70    | 32.60    | 28.30    |
| DBAS 76-37-** P/S * 081 | 39.30    | 34.15    | 23.00    | 21.05     | 69.05    | 36.00    | 29.90    |
| DBAS 76-61-** P/S * 081 | 47.30    | 42.00    | 30.10    | 27.40     | 75.65    | 42.80    | 33.50    |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

## DBAS 76 - With Potting Cup



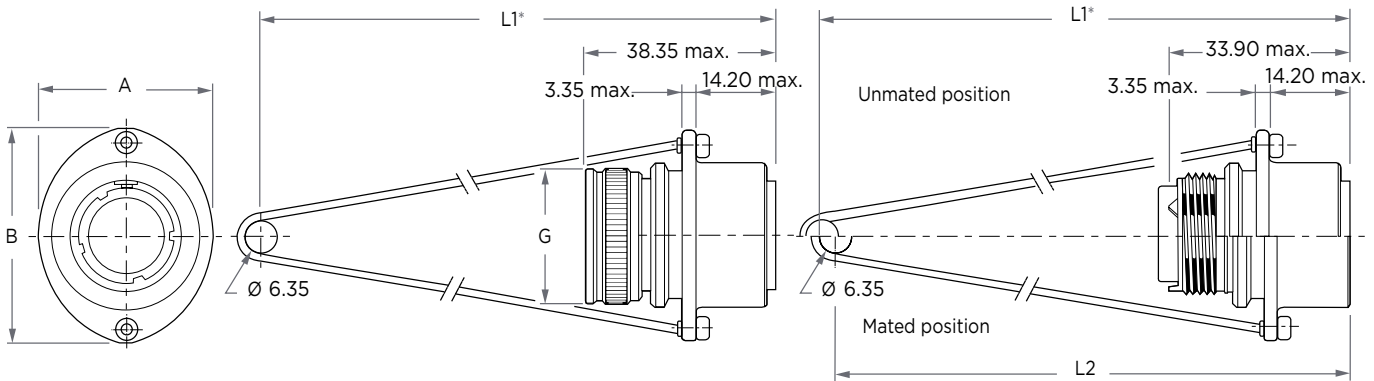
| Part Number               | F<br>max | G<br>max | J<br>max | J1<br>max |
|---------------------------|----------|----------|----------|-----------|
| DBAS 76-3-** P/S * A 083  | 20.40    | 17.00    | 4.60     | 46.20     |
| DBAS 76-7-** P/S * A 083  | 23.70    | 21.80    | 10.00    | 46.20     |
| DBAS 76-12-** P/S * A 083 | 26.90    | 25.00    | 11.50    | 51.70     |
| DBAS 76-19-** P/S * A 083 | 31.50    | 28.25    | 15.30    | 51.70     |
| DBAS 76-27-** P/S * A 083 | 36.10    | 30.95    | 17.30    | 51.70     |
| DBAS 76-37-** P/S * A 083 | 39.30    | 34.15    | 20.50    | 51.70     |
| DBAS 76-61-** P/S * A 083 | 47.30    | 42.00    | 26.80    | 51.70     |

Rear accessories  
tightening torque  
(See table page 30)

Dimensions in mm

# DEUTSCH DBAS Series Connectors

## DBAS 78 - With Heavy Duty Lanyard

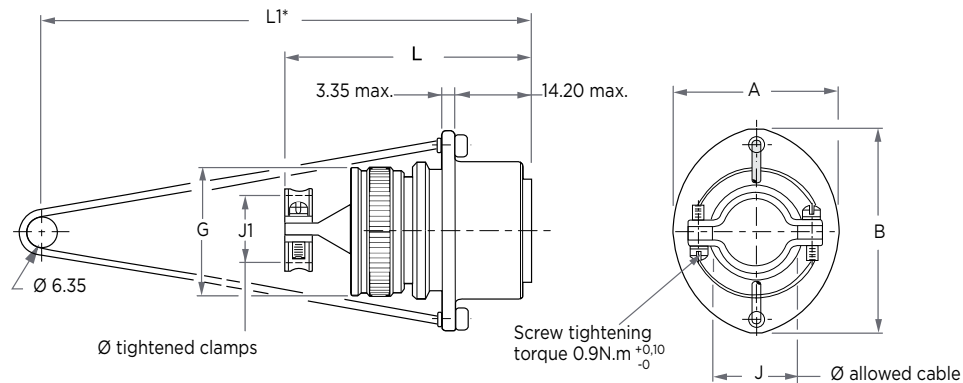


| Part Number         | A max | B max | G max | L2 +2.1 | L1 +2.1 | Part Number            |
|---------------------|-------|-------|-------|---------|---------|------------------------|
| DBAS 78-3-** P/S *  | 23.30 | 31.85 | 17.00 | 117.65  | 120.35  | DBAS 78-3-** P/S * 1A  |
| DBAS 78-7-** P/S *  | 26.80 | 35.65 | 21.80 | 117.40  | 120.10  | DBAS 78-7-** P/S * 1A  |
| DBAS 78-12-** P/S * | 29.60 | 38.70 | 25.00 | 117.25  | 119.95  | DBAS 78-12-** P/S * 1A |
| DBAS 78-19-** P/S * | 33.55 | 42.50 | 28.25 | 117.00  | 119.70  | DBAS 78-19-** P/S * 1A |
| DBAS 78-27-** P/S * | 37.20 | 46.20 | 30.95 | 116.70  | 119.40  | DBAS 78-27-** P/S * 1A |
| DBAS 78-37-** P/S * | 40.70 | 48.45 | 34.15 | 116.50  | 119.20  | DBAS 78-37-** P/S * 1A |
| DBAS 78-61-** P/S * | 47.85 | 56.60 | 42.00 | 115.64  | 118.35  | DBAS 78-61-** P/S * 1A |

Rear accessories tightening torque (See table page 30)  
For lanyard lengths, see table page 14.  
\* For specific lengths of lanyards, consult TE

Dimensions in mm

## DBAS 78 - With Straight Cable Clamp and Heavy Duty Lanyard



| Part Number             | A max | B max | G max | J min | J1 max | L max | L1 +2.1 |
|-------------------------|-------|-------|-------|-------|--------|-------|---------|
| DBAS 78-3-** P/S * 059  | 23.30 | 31.85 | 17.00 | 6.60  | 5.15   | 47.35 | 120.35  |
| DBAS 78-7-** P/S * 059  | 26.80 | 35.65 | 21.80 | 12.75 | 10.55  | 47.35 | 120.10  |
| DBAS 78-12-** P/S * 059 | 29.60 | 38.70 | 25.00 | 14.60 | 12.05  | 53.35 | 119.95  |
| DBAS 78-19-** P/S * 059 | 33.55 | 42.50 | 28.25 | 17.80 | 15.85  | 53.35 | 119.70  |
| DBAS 78-27-** P/S * 059 | 37.20 | 46.20 | 30.95 | 19.80 | 17.90  | 53.35 | 119.40  |
| DBAS 74-37-** P/S * 059 | 40.70 | 48.45 | 34.15 | 23.00 | 21.05  | 53.35 | 119.20  |
| DBAS 78-61-** P/S * 059 | 47.85 | 56.60 | 42.00 | 30.10 | 27.40  | 53.35 | 118.35  |

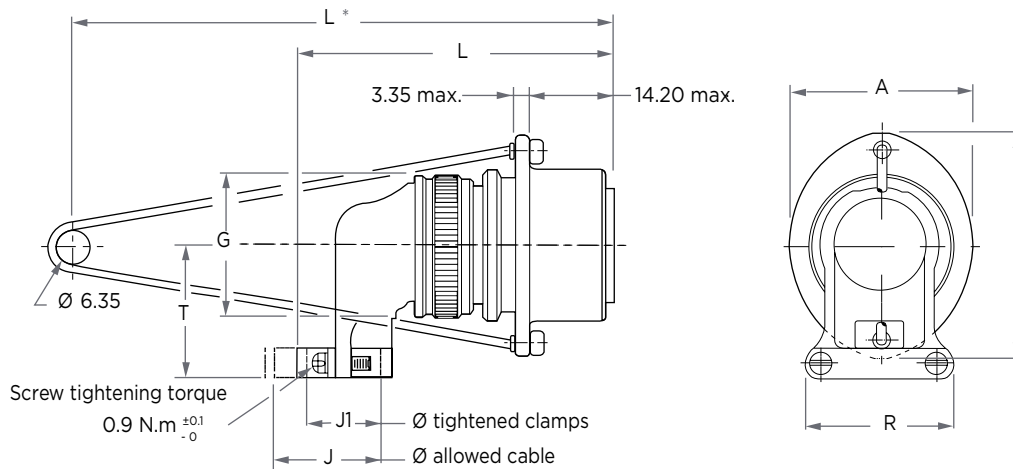
Rear accessories tightening torque (See table page 30)

Dimensions in mm

Traction angle  $\pm 15^\circ$  in all axis. For lanyard lengths, see table page 14. For specific lengths of lanyard, consult TE.

# DEUTSCH DBAS Series Connectors

## DBAS 78 - With Elbowed Cable Clamp

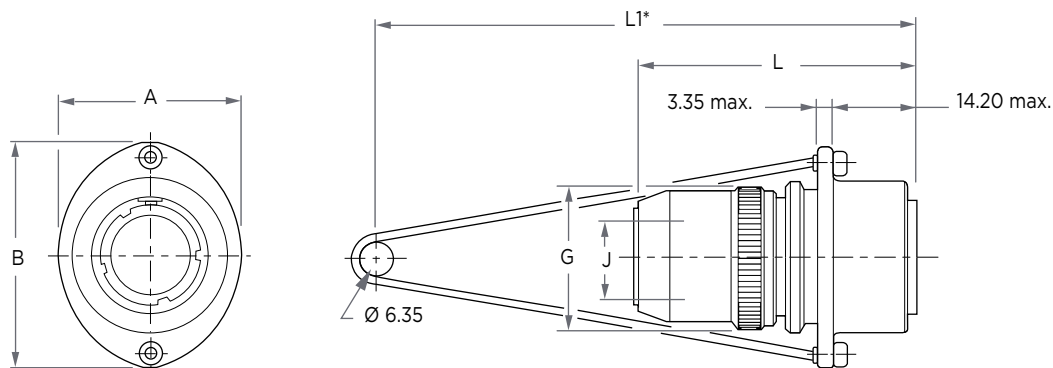


| Part Number             | A max | B max | G max | J min | J1 max | L max | L1 +2.1 | R max | T max |
|-------------------------|-------|-------|-------|-------|--------|-------|---------|-------|-------|
| DBAS 78-3-** P/S * 081  | 23.30 | 31.85 | 17.00 | 6.60  | 5.15   | 51.50 | 120.35  | 17.40 | 21.40 |
| DBAS 78-7-** P/S * 081  | 26.80 | 35.65 | 21.80 | 12.75 | 10.55  | 56.60 | 120.10  | 23.60 | 23.80 |
| DBAS 78-12-** P/S * 081 | 29.60 | 38.70 | 25.00 | 14.60 | 12.05  | 58.85 | 119.95  | 25.50 | 25.30 |
| DBAS 78-19-** P/S * 081 | 33.55 | 42.50 | 28.25 | 17.80 | 15.85  | 62.25 | 119.70  | 29.70 | 26.80 |
| DBAS 78-27-** P/S * 081 | 37.20 | 46.20 | 30.95 | 19.80 | 17.90  | 65.70 | 119.40  | 32.60 | 28.30 |
| DBAS 78-37-** P/S * 081 | 40.70 | 48.45 | 34.15 | 23.00 | 21.05  | 69.05 | 119.20  | 36.00 | 29.90 |
| DBAS 78-61-** P/S * 081 | 47.85 | 56.60 | 42.00 | 30.10 | 27.40  | 75.65 | 118.35  | 42.80 | 33.50 |

Dimensions in mm

Rear accessories tightening torque (See table page 30)  
For lanyard lengths, see table page 14.  
\* For specific lengths of lanyards, consult TE

## DBAS 78 - With Potting Cup



| Part Number               | A max | B max | G max | J max | L max | L1 +2.1 |
|---------------------------|-------|-------|-------|-------|-------|---------|
| DBAS 78-3-** P/S * A 083  | 23.30 | 31.85 | 17.00 | 4.60  | 46.20 | 120.35  |
| DBAS 78-7-** P/S * A 083  | 26.80 | 35.65 | 21.80 | 10.00 | 46.20 | 120.10  |
| DBAS 78-12-** P/S * A 083 | 29.60 | 38.70 | 25.00 | 11.50 | 51.70 | 119.95  |
| DBAS 78-19-** P/S * A 083 | 33.55 | 42.50 | 28.25 | 15.30 | 51.70 | 119.70  |
| DBAS 78-27-** P/S * A 083 | 37.20 | 46.20 | 30.95 | 17.30 | 51.70 | 119.40  |
| DBAS 78-37-** P/S * A 083 | 40.70 | 48.45 | 34.15 | 20.50 | 51.70 | 119.20  |
| DBAS 78-61-** P/S * A 083 | 47.85 | 56.60 | 42.00 | 26.80 | 51.70 | 118.35  |

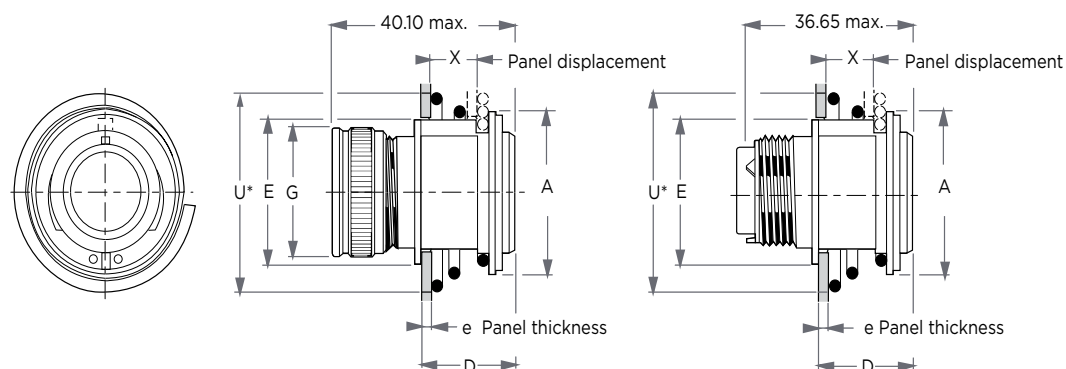
Dimensions in mm

Rear accessories tightening torque (See table page 30)

Traction angle  $\pm 15^\circ$  in all axis For lanyard lengths, see table page 14.  
For specific lengths of lanyard, consult us

# DEUTSCH DBAS Series Connectors

## DBAS 79 - Rack and Panel



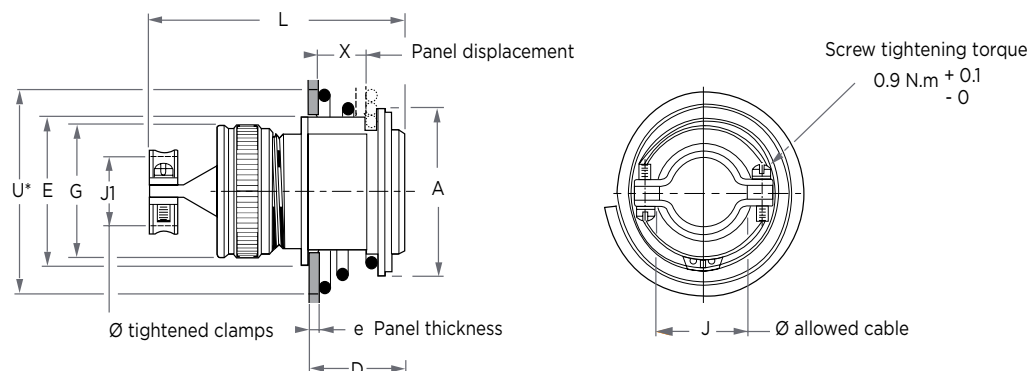
| Part Number         | A max | D max | E max | G max | U* max | X max   | Compression Force for X Effort |            | Part Number            |
|---------------------|-------|-------|-------|-------|--------|---------|--------------------------------|------------|------------------------|
| DBAS 79-3-**-P/S *  | 22.45 | 21.05 | 19.30 | 17.00 | 31.00* | 13.95-e | 1.60 daN.m                     | 0.30 daN.m | DBAS 79-3-**-P/S * 1A  |
| DBAS 79-7-**-P/S *  | 29.60 | 20.85 | 24.40 | 21.80 | 34.30* | 12.30-e | 3.30 daN.m                     | 0.70 daN.m | DBAS 79-7-**-P/S * 1A  |
| DBAS 79-12-**-P/S * | 31.90 | 20.85 | 27.25 | 25.00 | 39.75* | 12.45-e | 5.00 daN.m                     | 1.20 daN.m | DBAS 79-12-**-P/S * 1A |
| DBAS 79-19-**-P/S * | 35.15 | 20.85 | 32.00 | 28.25 | 43.40* | 12.15-e | 8.70 daN.m                     | 1.90 daN.m | DBAS 79-19-**-P/S * 1A |
| DBAS 79-27-**-P/S * | 38.70 | 20.60 | 35.75 | 30.95 | 47.15* | 11.80-e | 11.80 daN.m                    | 2.70 daN.m | DBAS 79-27-**-P/S * 1A |
| DBAS 79-37-**-P/S * | 45.95 | 20.60 | 40.60 | 34.15 | 53.50* | 11.60-e | 15.60 daN.m                    | 3.70 daN.m | DBAS 79-37-**-P/S * 1A |
| DBAS 79-61-**-P/S * | 54.40 | 20.30 | 50.40 | 42.00 | 72.00* | 9.35-e  | 26.20 daN.m                    | 6.10 daN.m | DBAS 79-61-**-P/S * 1A |

Dimensions in mm

Rear accessories tightening torque  
(See table page 30)

\*Only for the spring

## DBAS 79 - With Straight Cable Clamp



| Part Number             | A max | D max | E max | G max | J max | J1 max | L max | U* max | X max   | Compression Force for X nul |            |
|-------------------------|-------|-------|-------|-------|-------|--------|-------|--------|---------|-----------------------------|------------|
| DBAS 79-3-**-P/S * 059  | 22.45 | 21.05 | 19.30 | 17.00 | 6.60  | 5.15   | 49.10 | 31.00* | 13.95-e | 1.60 daN.m                  | 0.30 daN.m |
| DBAS 79-7-**-P/S * 059  | 29.60 | 20.85 | 24.40 | 21.80 | 12.75 | 10.55  | 49.10 | 34.30* | 12.30-e | 3.30 daN.m                  | 0.70 daN.m |
| DBAS 79-12-**-P/S * 059 | 31.90 | 20.85 | 27.25 | 25.00 | 14.60 | 12.05  | 55.10 | 39.75* | 12.45-e | 5.00 daN.m                  | 1.20 daN.m |
| DBAS 79-19-**-P/S * 059 | 35.15 | 20.85 | 32.00 | 28.25 | 17.80 | 15.85  | 55.10 | 43.40* | 12.15-e | 8.70 daN.m                  | 1.90 daN.m |
| DBAS 79-27-**-P/S * 059 | 38.70 | 20.60 | 35.75 | 30.95 | 19.80 | 17.90  | 55.10 | 47.15* | 11.80-e | 11.80 daN.m                 | 2.70 daN.m |
| DBAS 79-37-**-P/S * 059 | 45.95 | 20.60 | 40.60 | 34.15 | 23.00 | 21.05  | 55.10 | 53.50* | 11.60-e | 15.60 daN.m                 | 3.70 daN.m |
| DBAS 79-61-**-P/S * 059 | 54.40 | 20.30 | 50.40 | 42.00 | 30.10 | 27.40  | 55.10 | 72.00* | 9.35-e  | 26.20 daN.m                 | 6.10 daN.m |

Dimensions in mm

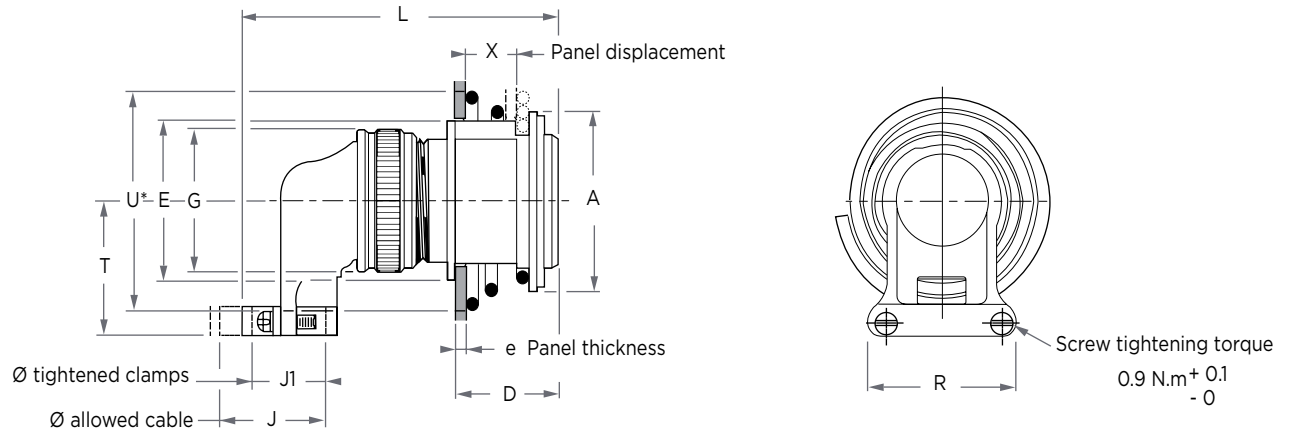
Rear accessories tightening torque  
(See table page 30)

\*Only for the spring

To be used with the spring compressed to the maximum panel displacement X depends on thickness (e) chosen by the user.  
Panel cutout, see page 37. Rack system mounting, see NU 025-011

# DEUTSCH DBAS Series Connectors

## DBAS 79 - With Elbowed Cable Clamp



| Part Number             | A max | D max | E max | G max | J mini | J1 max | L max | R max | T max | U* max | X max   | Compression Force for X |            |
|-------------------------|-------|-------|-------|-------|--------|--------|-------|-------|-------|--------|---------|-------------------------|------------|
|                         |       |       |       |       |        |        |       |       |       |        |         | max                     | nul        |
| DBAS 79-3-**-P/S * 081  | 22.45 | 21.05 | 19.30 | 17.00 | 6.60   | 5.15   | 53.25 | 17.40 | 21.40 | 31.00* | 13.95-e | 1.60 daN.m              | 0.30 daN.m |
| DBAS 79-7-**-P/S * 081  | 29.60 | 20.85 | 24.40 | 21.80 | 12.75  | 10.55  | 58.35 | 23.60 | 23.80 | 34.30* | 12.30-e | 3.30 daN.m              | 0.70 daN.m |
| DBAS 79-12-**-P/S * 081 | 31.90 | 20.85 | 27.25 | 25.00 | 14.60  | 12.05  | 60.60 | 25.50 | 25.30 | 39.75* | 12.45-e | 5.00 daN.m              | 1.20 daN.m |
| DBAS 79-19-**-P/S * 081 | 35.15 | 20.85 | 32.00 | 28.25 | 17.80  | 15.85  | 64.00 | 29.70 | 26.80 | 43.40* | 12.15-e | 8.70 daN.m              | 1.90 daN.m |
| DBAS 79-27-**-P/S * 081 | 38.70 | 20.60 | 35.75 | 30.95 | 19.80  | 17.90  | 67.45 | 32.60 | 28.30 | 47.15* | 11.80-e | 11.80 daN.m             | 2.70 daN.m |
| DBAS 79-37-**-P/S * 081 | 45.95 | 20.60 | 40.60 | 34.15 | 23.00  | 21.05  | 70.80 | 36.00 | 29.90 | 53.50* | 11.60-e | 15.60 daN.m             | 3.70 daN.m |
| DBAS 79-61-**-P/S * 081 | 54.40 | 20.30 | 50.40 | 42.00 | 30.10  | 27.40  | 77.40 | 42.80 | 33.50 | 72.00* | 9.35-e  | 26.20 daN.m             | 6.10 daN.m |

Dimensions in mm

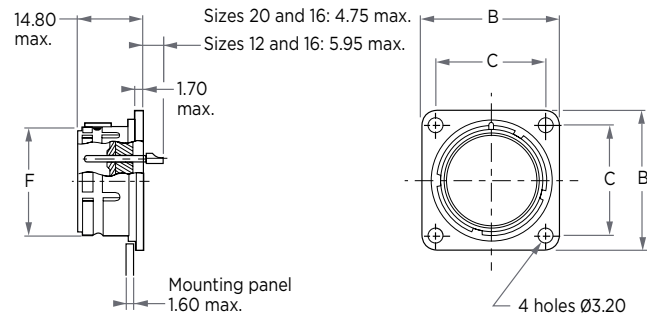
Rear accessories tightening torque  
(See table page 30)  
\*Only for the spring



To be used with the spring compressed to the maximum Panel displacement X depends on thickness (e) chosen by the user.  
Panel cutout, see page 37. Rack system mounting, see NU 025-01125-011

# DEUTSCH DBAS Series Connectors

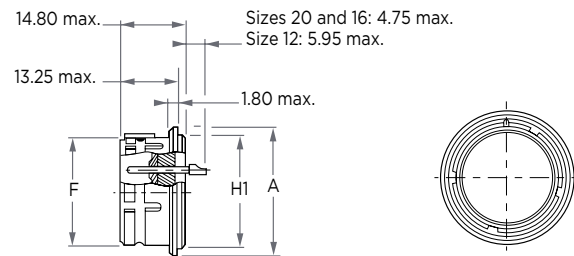
## DBA / DBC 70H - Hermetic Square Flange Receptacle



| Part Number       | B max | C ±0,1 | F max | Part Number       |
|-------------------|-------|--------|-------|-------------------|
| DBA 70H-3-** P *  | 22.32 | 15.88  | 11.11 | DBC 70H-3-** P *  |
| DBA 70H-7-** P *  | 25.50 | 18.26  | 14.54 | DBC 70H-7-** P *  |
| DBA 70H-12-** P * | 27.86 | 20.65  | 17.97 | DBC 70H-12-** P * |
| DBA 70H-19-** P * | 30.25 | 23.02  | 21.50 | DBC 70H-19-** P * |
| DBA 70H-27-** P * | 32.64 | 24.59  | 25.44 | DBC 70H-27-** P * |
| DBA 70H-37-** P * | 36.60 | 30.15  | 28.51 | DBC 70H-37-** P * |
| DBA 70H-61-** P * | 45.34 | 36.47  | 35.80 | DBC 70H-61-** P * |

Dimensions in mm

## DBA / DBC 73H - Hermetic Solder Flange Receptacle



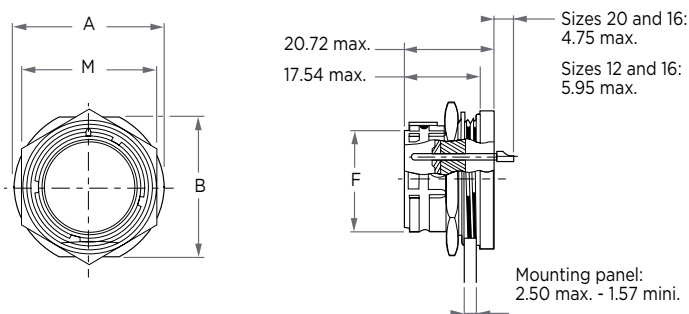
| Part Number       | A max | F max | H1 max | Part Number       |
|-------------------|-------|-------|--------|-------------------|
| DBA 73H-3-** P *  | 15.09 | 11.11 | 12.62  | DBC 73H-3 ** P *  |
| DBA 73H-7-** P *  | 19.10 | 14.54 | 15.80  | DBC 73H-7 ** P *  |
| DBA 73H-12-** P * | 22.28 | 17.97 | 18.97  | DBC 73H-12 ** P * |
| DBA 73H-19-** P * | 25.45 | 21.50 | 22.96  | DBC 73H-19 ** P * |
| DBA 73H-27-** P * | 30.07 | 25.44 | 26.92  | DBC 73H-27 ** P * |
| DBA 73H-37-** P * | 32.59 | 28.51 | 29.28  | DBC 73H-37 ** P * |
| DBA 73H-61-** P * | 39.72 | 35.80 | 36.44  | DBC 73H-61 ** P * |

Dimensions in mm

## DBA / DBC 74H - Hermetic Jam-Nut Mounting Receptacle

| Part Number       | A max | B max | F max | M max | Max. Nut Panel Tightening Torque | Part Number       |
|-------------------|-------|-------|-------|-------|----------------------------------|-------------------|
| DBA 74H-3 ** P *  | 19.53 | 18.58 | 11.11 | 15.97 | 0.70 daN.m                       | DBC 74H-3 ** P *  |
| DBA 74H-7 ** P *  | 22.70 | 21.76 | 14.54 | 20.72 | 1.00 daN.m                       | DBC 74H-7 ** P *  |
| DBA 74H-12 ** P * | 25.77 | 24.93 | 17.97 | 23.90 | 1.30 daN.m                       | DBC 74H-12 ** P * |
| DBA 74H-19 ** P * | 30.65 | 29.72 | 21.50 | 27.07 | 1.50 daN.m                       | DBC 74H-19 ** P * |
| DBA 74H-27 ** P * | 33.83 | 32.88 | 25.44 | 31.34 | 1.80 daN.m                       | DBC 74H-27 ** P * |
| DBA 74H-37 ** P * | 36.98 | 36.16 | 28.51 | 35.10 | 2.20 daN.m                       | DBC 74H-37 ** P * |
| DBA 74H-61 ** P * | 48.23 | 47.29 | 35.80 | 42.97 | 2.90 daN.m                       | DBC 74H-61 ** P * |

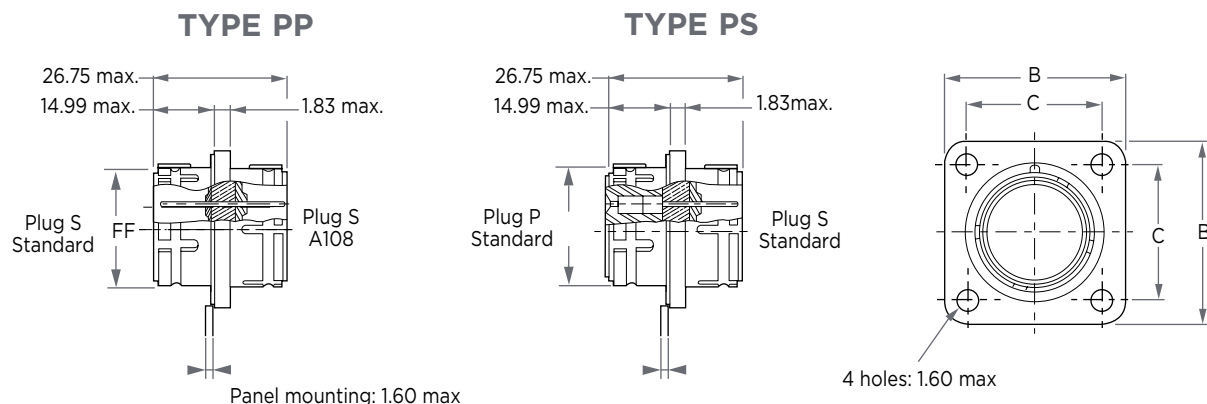
Dimensions in mm



Panel sealing gasket to be ordered separately, see page 33. Panel cutout, see page 37.  
O'ring to be ordered separately, see page 33. Panel cutout, see page 37.

# DEUTSCH DBAS Series Connectors

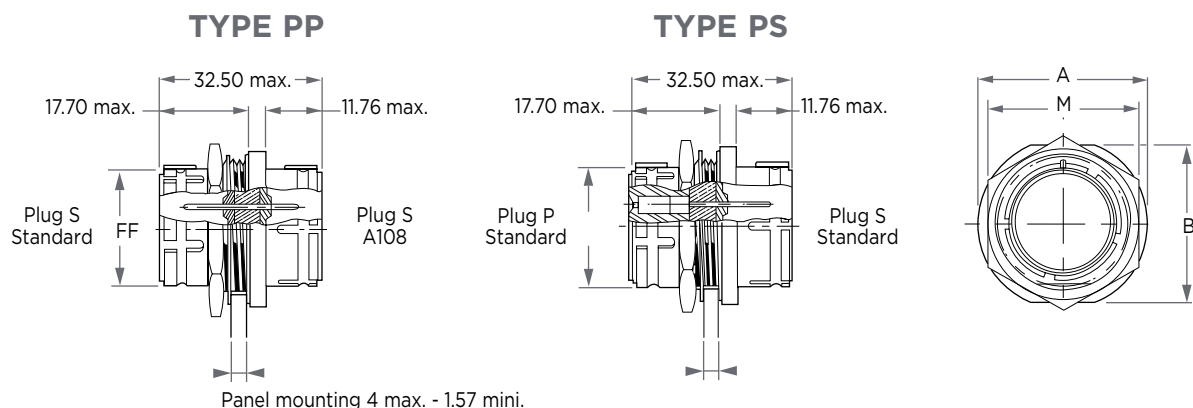
## DHS 70H - Hermetic Square Flange Receptacle Feedthrough



| Part Number        | B max | C $\pm 0,1$ | F max | Part Number        |
|--------------------|-------|-------------|-------|--------------------|
| DHS 70H-3-**-PP *  | 22.65 | 15.88       | 11.20 | DHS 70H-3-**-PS *  |
| DHS 70H-7-**-PP *  | 25.85 | 18.26       | 14.63 | DHS 70H-7-**-PS *  |
| DHS 70H-12-**-PP * | 28.20 | 20.65       | 18.03 | DHS 70H-12-**-PS * |
| DHS 70H-19-**-PP * | 30.60 | 23.02       | 21.56 | DHS 70H-19-**-PS * |
| DHS 70H-27-**-PP * | 32.95 | 24.59       | 25.50 | DHS 70H-27-**-PS * |
| DHS 70H-37-**-PP * | 36.95 | 30.15       | 28.60 | DHS 70H-37-**-PS * |
| DHS 70H-61-**-PP * | 48.65 | 36.47       | 35.91 | DHS 70H-61-**-PS * |

Dimensions in mm

## DHS 74H - Hermetic Jam-Nut Mounting Receptacle Feedthrough



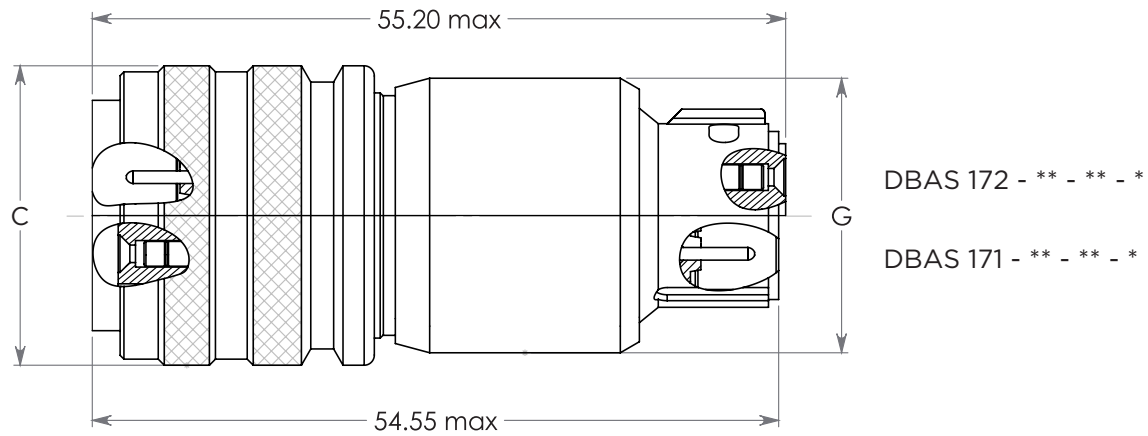
| Part Number        | A max | B max | F max | M max | Max. Nut Panel Tightening Torque | Part Number        |
|--------------------|-------|-------|-------|-------|----------------------------------|--------------------|
| DHS 74H-3-**-PP *  | 19.81 | 18.84 | 11.20 | 15.87 | 0.70 daN.m                       | DHS 74H-3-**-PS *  |
| DHS 74H-7-**-PP *  | 22.98 | 22.02 | 14.63 | 20.62 | 1.00 daN.m                       | DHS 74H-7-**-PS *  |
| DHS 74H-12-**-PP * | 26.16 | 25.19 | 18.03 | 23.79 | 1.30 daN.m                       | DHS 74H-12-**-PS * |
| DHS 74H-19-**-PP * | 30.93 | 29.97 | 21.56 | 26.97 | 1.50 daN.m                       | DHS 74H-19-**-PS * |
| DHS 74H-27-**-PP * | 34.11 | 33.14 | 25.50 | 31.75 | 1.80 daN.m                       | DHS 74H-27-**-PS * |
| DHS 74H-37-**-PP * | 37.26 | 36.32 | 28.60 | 37.26 | 2.20 daN.m                       | DHS 74H-37-**-PS * |
| DHS 74H-61-**-PP * | 48.51 | 47.59 | 35.91 | 42.87 | 2.90 daN.m                       | DHS 74H-61-**-PS * |

Dimensions in mm

Panel sealing gasket to be ordered separately, see page 33. Panel cutout, see page 37.  
O'ring to be ordered separately, see page 33. Panel cutout, see page 37.

# DEUTSCH DBAS Series Connectors

## DBAS 171/172 – Savers



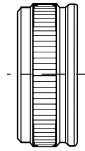
| Part Number      | Contact Type |                 | C<br>max | G<br>max |
|------------------|--------------|-----------------|----------|----------|
|                  | Plug Side    | Receptacle Side |          |          |
| DBAS 171-3-**-*  | Socket       | Pin             | 20.40    | 18.30    |
| DBAS 171-7-**-*  | Socket       | Pin             | 23.70    | 21.90    |
| DBAS 171-12-**-* | Socket       | Pin             | 26.90    | 24.80    |
| DBAS 171-19-**-* | Socket       | Pin             | 31.50    | 28.40    |
| DBAS 171-27-**-* | Socket       | Pin             | 36.10    | 31.90    |
| DBAS 171-37-**-* | Socket       | Pin             | 39.30    | 35.10    |
| DBAS 171-61-**-* | Socket       | Pin             | 47.30    | 43.30    |
| DBAS 172-3-**-*  | Pin          | Socket          | 20.40    | 18.30    |
| DBAS 172-7-**-*  | Pin          | Socket          | 23.70    | 21.90    |
| DBAS 172-12-**-* | Pin          | Socket          | 26.90    | 24.80    |
| DBAS 172-19-**-* | Pin          | Socket          | 31.50    | 28.40    |
| DBAS 172-27-**-* | Pin          | Socket          | 36.10    | 31.90    |
| DBAS 172-37-**-* | Pin          | Socket          | 39.30    | 35.10    |
| DBAS 172-61-**-* | Pin          | Socket          | 47.30    | 43.30    |

Dimensions in mm

# DEUTSCH DBAS Series Connectors

## Accessories

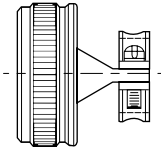
### Nut



| Size | Part Number      |
|------|------------------|
| 3    | 006-0909-03 A499 |
| 7    | 006-0909-12 A499 |
| 12   | 006-0909-14 A499 |
| 19   | 006-0909-16 A499 |
| 27   | 006-0909-18 A499 |
| 37   | 006-0909-20 A499 |
| 61   | 006-0909-61 A499 |

### Straight Cable Clamp

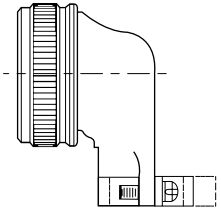
Mod. 059



| Size | Part Number      |
|------|------------------|
| 3    | 006-0910-03 A499 |
| 7    | 006-0910-12 A499 |
| 12   | 006-0910-14 A499 |
| 19   | 006-0910-16 A499 |
| 27   | 006-0910-18 A499 |
| 37   | 006-0910-20 A499 |
| 61   | 006-0910-61 A499 |

### Elbowed Cable Clamp

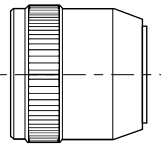
Mod. 081



| Size | Part Number      |
|------|------------------|
| 3    | 006-0908-03 A499 |
| 7    | 006-0908-12 A499 |
| 12   | 006-0908-14 A499 |
| 19   | 006-0908-16 A499 |
| 27   | 006-0908-18 A499 |
| 37   | 006-0908-20 A499 |
| 61   | 006-0908-61 A499 |

### Potting Cup

Mod. 083

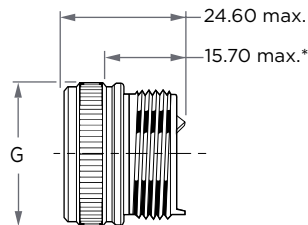
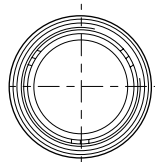


| Size | Part Number      |
|------|------------------|
| 3    | 006-0701-03 A499 |
| 7    | 006-0701-12 A499 |
| 12   | 006-0701-14 A499 |
| 19   | 006-0701-16 A499 |
| 27   | 006-0701-18 A499 |
| 37   | 006-0701-20 A499 |
| 61   | 006-0701-61 A499 |

### Adaptor

\* Functional lengthening when using this adaptor.

Mod. A 140



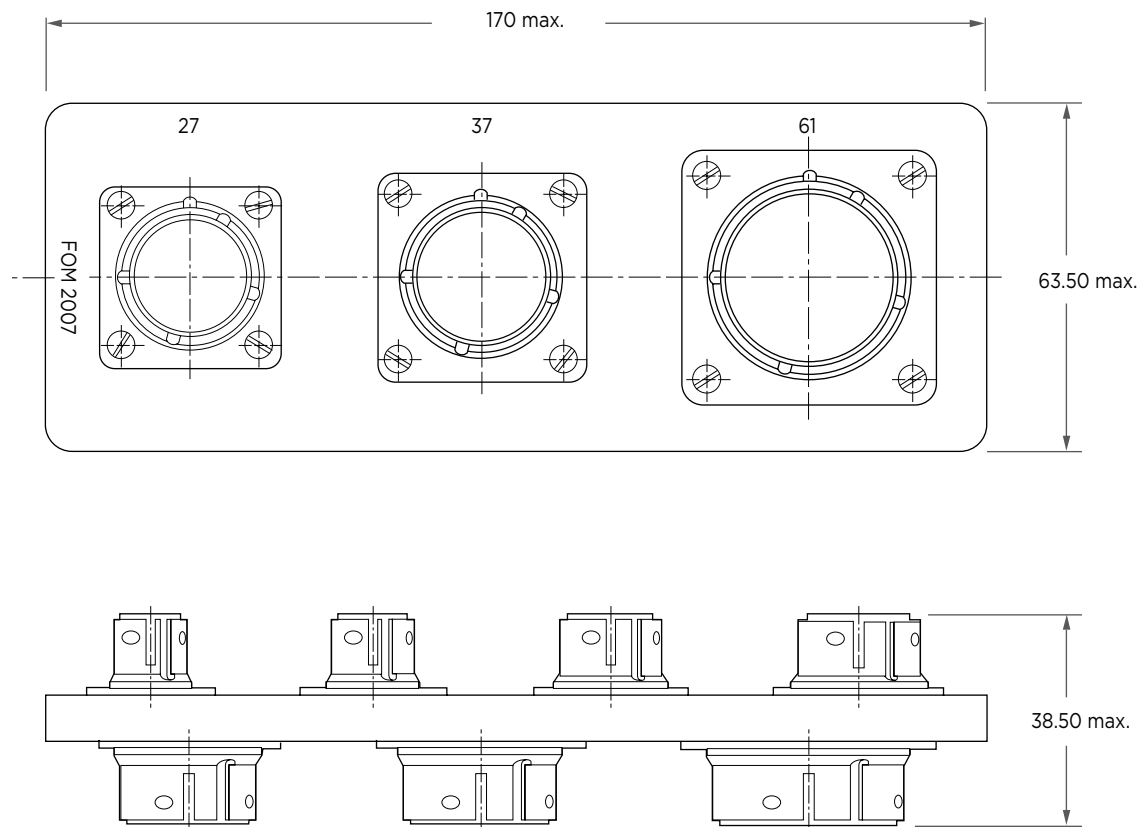
| Size | Part Number      | G max |
|------|------------------|-------|
| 3    | 006-0884-03 A499 | 17.00 |
| 7    | 006-0884-12 A499 | 21.80 |
| 12   | 006-0884-14 A499 | 25.00 |
| 19   | 006-0884-16 A499 | 28.25 |
| 27   | 006-0884-18 A499 | 30.95 |
| 37   | 006-0884-20 A499 | 34.15 |
| 61   | 006-0884-61 A499 | 42.00 |

Dimensions in mm

| Size | Accessories Tightening Torques<br>(± 10%) |
|------|-------------------------------------------|
| 3    | 0.36 daN.m                                |
| 7    | 0.50 daN.m                                |
| 12   | 0.60 daN.m                                |
| 19   | 0.65 daN.m                                |
| 27   | 0.70 daN.m                                |
| 37   | 0.75 daN.m                                |
| 61   | 0.95 daN.m                                |

# DEUTSCH DBAS Series Connectors

## FOM-2007 - Tightening Fixture

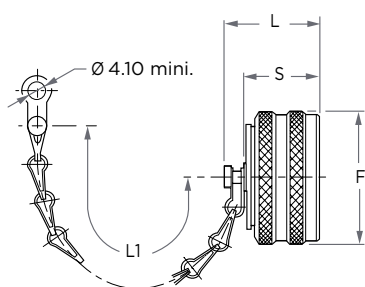


Dimensions in mm

# DEUTSCH DBAS Series Connectors

## Protective Caps

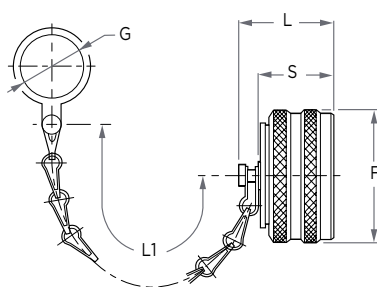
### TYPE 70



| Part Number  | F max | L max | L1 max | S max |
|--------------|-------|-------|--------|-------|
| DBAS C-70-3  | 20.40 | 20.45 | 79.00  | 16.95 |
| DBAS C-70-7  | 23.70 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-12 | 26.90 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-19 | 31.50 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-27 | 36.10 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-37 | 39.30 | 20.45 | 111.00 | 16.95 |
| DBAS C-70-61 | 47.30 | 20.45 | 111.00 | 16.95 |

Dimensions in mm

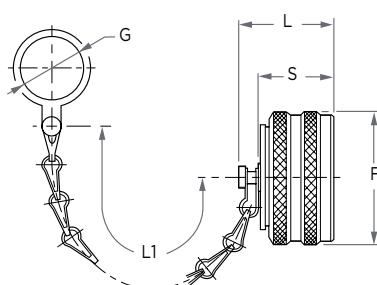
### TYPE 71



| Part Number  | F max | G mini | L max | L1 max | S max |
|--------------|-------|--------|-------|--------|-------|
| DBAS C-71-3  | 20.40 | 14.60  | 20.00 | 79.00  | 16.85 |
| DBAS C-71-7  | 23.70 | 19.30  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-12 | 26.90 | 22.50  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-19 | 31.50 | 25.50  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-27 | 36.10 | 27.35  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-37 | 39.30 | 30.40  | 20.00 | 111.00 | 16.85 |
| DBAS C-71-61 | 47.30 | 38.40  | 20.20 | 111.00 | 17.05 |

Dimensions in mm

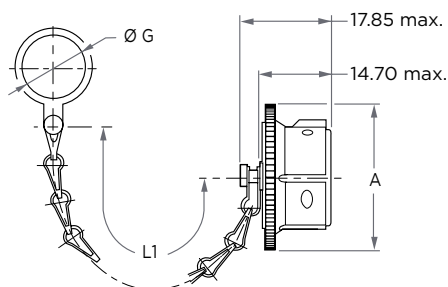
### TYPE 74



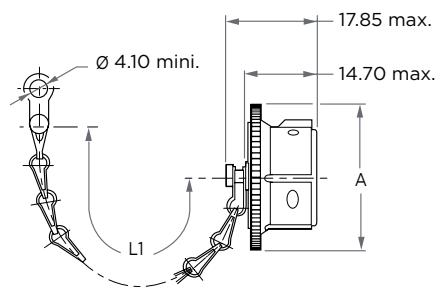
| Part Number  | F max | G mini | L max | L1 max | S max |
|--------------|-------|--------|-------|--------|-------|
| DBAS C 74-3  | 20.40 | 14.60  | 20.45 | 79.00  | 16.95 |
| DBAS C 74-7  | 23.70 | 17.70  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-12 | 26.90 | 20.90  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-19 | 31.50 | 25.70  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-27 | 36.10 | 28.90  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-37 | 39.30 | 32.00  | 20.45 | 111.00 | 16.95 |
| DBAS C 74-61 | 47.30 | 38.40  | 20.45 | 111.00 | 16.95 |

Dimensions in mm

### TYPE 76



### TYPE 76-70



| Part Number     | A max | G mini | L1 max |
|-----------------|-------|--------|--------|
| DBAS C-76-3     | 18.50 | 14.60  | 79.00  |
| DBAS C 76-70-3  |       |        |        |
| DBAS C-76-7     | 22.80 | 18.85  | 95.00  |
| DBAS C 76-70-7  |       |        |        |
| DBAS C-76-12    | 27.20 | 22.10  | 95.00  |
| DBAS C 76-70-12 |       |        |        |
| DBAS C-76-19    | 30.60 | 25.50  | 95.00  |
| DBAS C 76-70-19 |       |        |        |
| DBAS C-76-27    | 34.55 | 27.35  | 95.00  |
| DBAS C 76-70-27 |       |        |        |
| DBAS C-76-37    | 37.85 | 30.40  | 111.00 |
| DBAS C 76-70-37 |       |        |        |
| DBAS C-76-61    | 46.45 | 38.40  | 111.00 |
| DBAS C 76-70-61 |       |        |        |

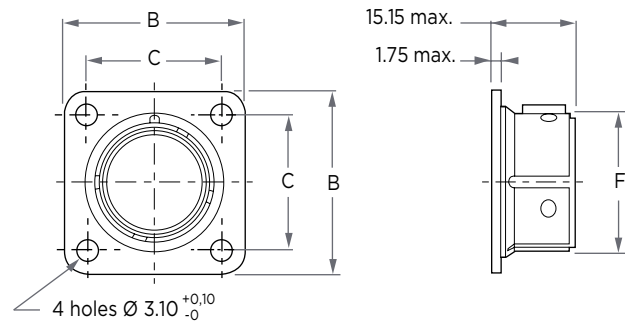
Dimensions in mm

Note: Mod. A 134: Without chain.  
A 190: Nylon wire.

# DEUTSCH DBAS Series Connectors

## Dummy Receptacle

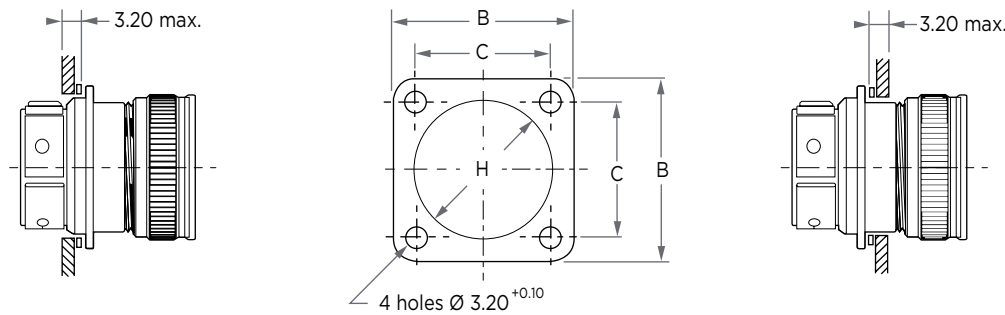
### DUMMY RECEPTACLE



| Size | Part Number   | B max | C ±0,1 | F max |
|------|---------------|-------|--------|-------|
| 3    | DBAS 70 PR 3  | 22.60 | 15.90  | 11.25 |
| 7    | DBAS 70 PR 7  | 25.80 | 18.26  | 14.65 |
| 12   | DBAS 70 PR 12 | 28.20 | 20.62  | 18.05 |
| 19   | DBAS 70 PR 19 | 30.60 | 23.02  | 21.60 |
| 27   | DBAS 70 PR 27 | 33.00 | 24.58  | 25.55 |
| 37   | DBAS 70 PR 37 | 36.90 | 30.12  | 28.65 |
| 61   | DBAS 70 PR 61 | 45.70 | 36.48  | 35.95 |

Dimensions in mm  
Only N position

## Panel Sealing Gasket and O'ring for Receptacles



| Front Flange Mounting |             |       | B max | C max | Rear Flange Mounting |             |      |
|-----------------------|-------------|-------|-------|-------|----------------------|-------------|------|
| Size                  | Part Number | H max |       |       | H max                | Part Number | Size |
| 3                     | 025-0001-03 | 14.80 | 22.50 | 15.90 | 14.80                | 025-0001-03 | 3    |
| 7                     | 025-0001-07 | 17.70 | 25.70 | 18.26 | 18.80                | 025-0002-07 | 7    |
| 12                    | 025-0001-12 | 21.10 | 28.10 | 20.62 | 22.00                | 025-0002-12 | 12   |
| 19                    | 025-0001-19 | 24.30 | 30.50 | 23.02 | 25.10                | 025-0002-19 | 19   |
| 27                    | 025-0001-27 | 29.00 | 32.80 | 24.58 | 27.50                | 025-0002-27 | 27   |
| 37                    | 025-0001-37 | 32.30 | 36.80 | 30.12 | 30.50                | 025-0002-37 | 37   |
| 61                    | 025-0001-61 | 40.20 | 45.50 | 36.48 | 38.50                | 025-0002-61 | 61   |

Dimensions in mm

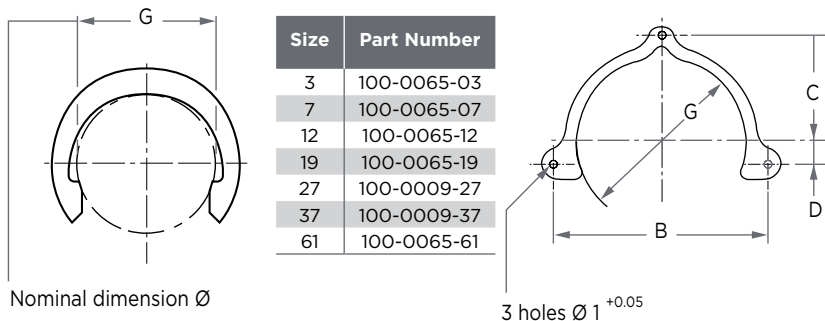
### O'ring

| Size | Part number |
|------|-------------|
| 3    | 103-0001-15 |
| 7    | 103-0001-17 |
| 12   | 103-0001-19 |
| 19   | 103-0001-22 |
| 27   | 103-0001-24 |
| 37   | 103-0001-26 |
| 61   | 103-0003-29 |

## Leading Clips for Plugs and Protective Caps

### For protective caps

### For plugs



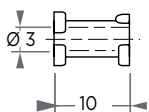
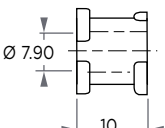
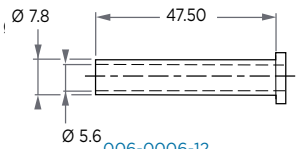
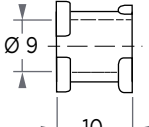
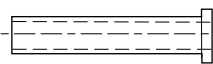
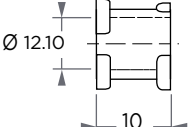
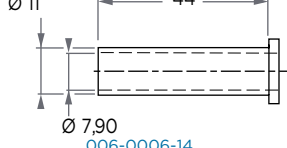
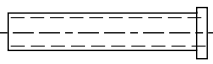
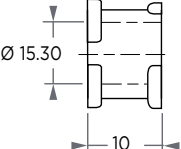
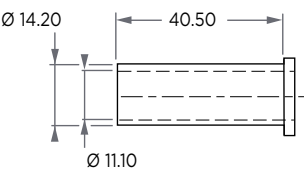
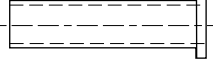
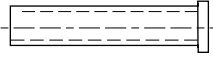
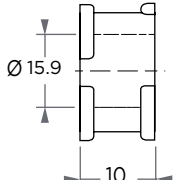
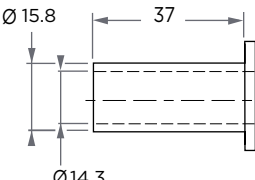
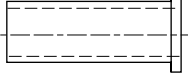
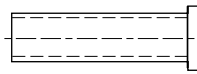
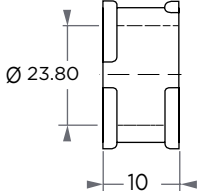
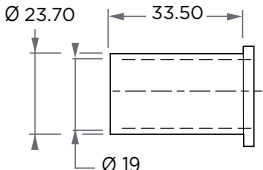
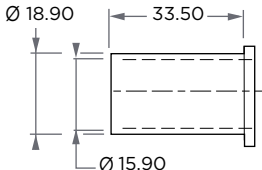
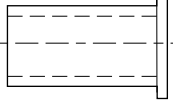
| Size | Part Number |
|------|-------------|
| 3    | 100-0065-03 |
| 7    | 100-0065-07 |
| 12   | 100-0065-12 |
| 19   | 100-0065-19 |
| 27   | 100-0009-27 |
| 37   | 100-0009-37 |
| 61   | 100-0065-61 |

| Size | Part Number | B ±0,1 | C ±0,1 | D ±0,1 | G     |
|------|-------------|--------|--------|--------|-------|
| 3    | 025-0792-03 | 21.20  | 10.80  | 2.00   | 15.00 |
| 7    | 025-0792-07 | 24.00  | 12.30  | 2.40   | 17.50 |
| 12   | 025-0792-12 | 27.60  | 14.00  | 2.70   | 21.30 |
| 19   | 025-0792-19 | 32.00  | 16.20  | 3.25   | 25.00 |
| 27   | 025-0792-27 | 36.60  | 18.60  | 3.75   | 28.40 |
| 37   | 025-0792-37 | 39.60  | 20.20  | 4.00   | 31.10 |
| 61   | 025-0792-61 | 47.00  | 24.00  | 5.20   | 40.20 |

Dimensions in mm

# DEUTSCH DBAS Series Connectors

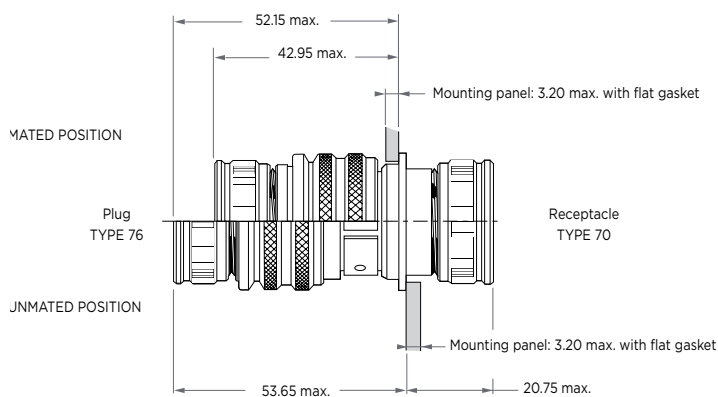
## Cable Clamp Sleeves

| Size      | Main Bushings                                                                                                             | Middle Bushings                                                                                                                          |                                                                                                                                           |                                                                                                          |
|-----------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>03</b> |  <p>Ø 3<br/>10<br/>006-0005-08</p>       |                                                                                                                                          |                                                                                                                                           |                                                                                                          |
| <b>07</b> |  <p>Ø 7.90<br/>10<br/>006-0005-12</p>    |  <p>Ø 7.8<br/>47.50<br/>Ø 5.6<br/>006-0006-12</p>       |                                                                                                                                           |                                                                                                          |
| <b>12</b> |  <p>Ø 9<br/>10<br/>006-0005-14</p>       |  <p>006-0005-14</p>                                     |                                                                                                                                           |                                                                                                          |
| <b>19</b> |  <p>Ø 12.10<br/>10<br/>006-0005-16</p>  |  <p>Ø 11<br/>44<br/>Ø 7.90<br/>006-0006-14</p>         |  <p>006-0006-12</p>                                     |                                                                                                          |
| <b>27</b> |  <p>Ø 15.30<br/>10<br/>006-0005-18</p> |  <p>Ø 14.20<br/>40.50<br/>Ø 11.10<br/>006-0006-18</p> |  <p>006-0006-14</p>                                   |  <p>006-0006-12</p> |
| <b>37</b> |  <p>Ø 15.9<br/>10<br/>006-0005-20</p>  |  <p>Ø 15.8<br/>37<br/>Ø 14.3<br/>006-0005-20</p>      |  <p>006-0006-18</p>                                   |  <p>006-0006-14</p> |
| <b>61</b> |  <p>Ø 23.80<br/>10<br/>006-0005-61</p> |  <p>Ø 23.70<br/>33.50<br/>Ø 19<br/>006-0006-24</p>    |  <p>Ø 18.90<br/>33.50<br/>Ø 15.90<br/>006-0006-22</p> |  <p>006-0006-20</p> |

# DEUTSCH DBAS Series Connectors

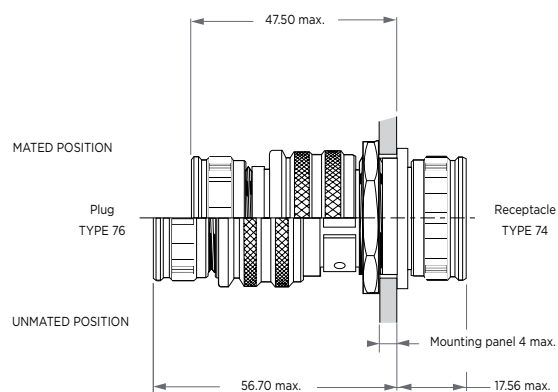
## Mating - Unmating Dimensions

### Mating DBAS 76 with 70



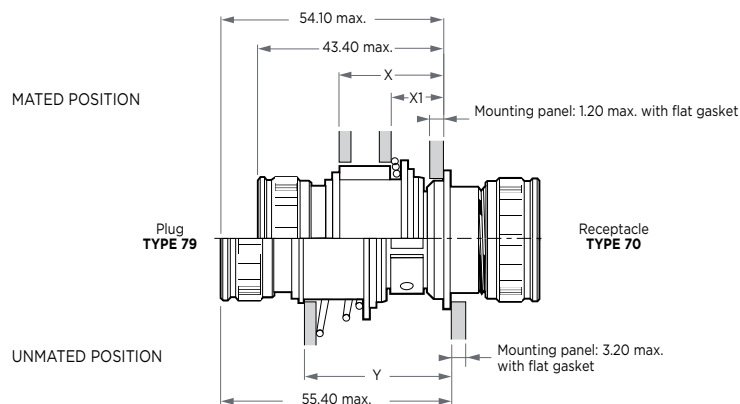
Dimensions in mm

### Mating DBAS 76 with 74



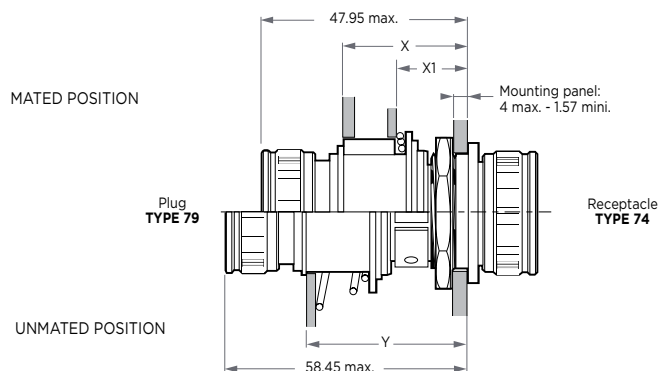
Dimensions in mm

### Mating DBAS 79 with 70



Dimensions in mm

### Mating DBAS 79 with 74



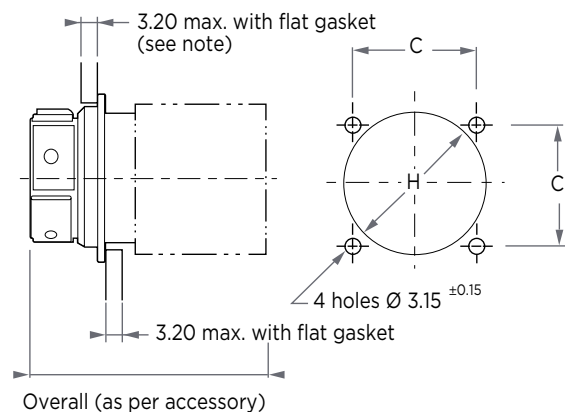
Dimensions in mm

# DEUTSCH DBAS Series Connectors

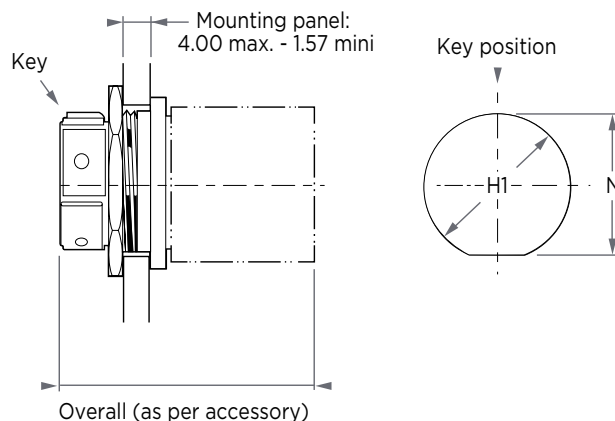
## Panel Cutout

### For Sealed and Hermetic Receptacles

#### Square flange



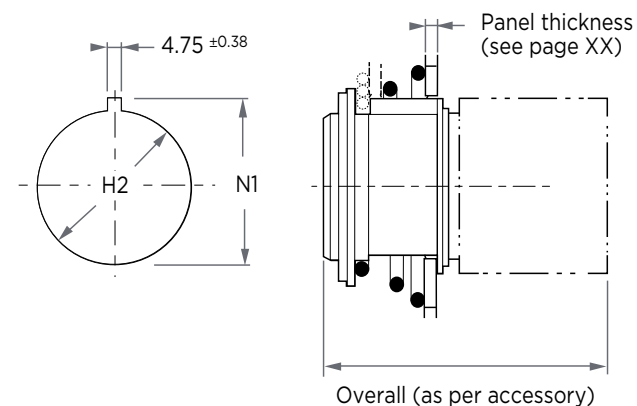
#### Jam-nut mounted



Note: For utilization on rack connectors, see page 40.

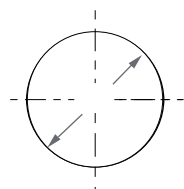
### For Sealed Receptacle

#### Rack and panel connector



### For Hermetic Receptacle

#### Solder flange



| Size | C<br>$\pm 0.1$ | H<br>+ 0<br>- 0.2 | H1<br>+ 0.2<br>- 0 | H2<br>$\pm 0.38$ | H3<br>max. | N<br>- 0 | N1<br>+ 0.1<br>$\pm 0.38$ |
|------|----------------|-------------------|--------------------|------------------|------------|----------|---------------------------|
| 3    | 15.90          | 14.80             | 14.40              | 17.04            | 14.40      | 13.56    | 21.41                     |
| 7    | 18.26          | 19.40             | 17.55              | 20.62            | 17.55      | 16.79    | 24.99                     |
| 12   | 20.62          | 22.60             | 20.73              | 23.80            | 20.73      | 19.91    | 27.96                     |
| 19   | 23.02          | 25.75             | 25.48              | 26.97            | 25.48      | 24.61    | 31.34                     |
| 27   | 24.58          | 28.95             | 28.65              | 30.56            | 28.65      | 27.81    | 34.92                     |
| 37   | 30.12          | 32.35             | 31.83              | 34.92            | 31.83      | 30.99    | 38.89                     |

Dimensions in mm

# DEUTSCH DBAS Series Connectors

## Mating - Unmating Forces

| Shell Size | Maximum Mating - Unmating Force |                | Minimum Unmating Force |                |
|------------|---------------------------------|----------------|------------------------|----------------|
|            | Push-Pull                       | Rack and Panel | Push-Pull              | Rack and Panel |
| 3          | 6.8                             | 8.01           | 0.56                   | 0.06           |
| 7          | 8.9                             | 8.90           | 0.66                   | 0.15           |
| 12         | 15.1                            | 16.90          | 0.89                   | 0.25           |
| 19         | 16.9                            | 20.46          | 1.33                   | 0.40           |
| 27         | 17.8                            | 20.46          | 1.78                   | 0.56           |
| 37         | 19.6                            | 22.24          | 2.69                   | 0.77           |
| 61         | 21.8                            | 30.25          | 3.11                   | 0.94           |

DBAS 78GR, Minimum unmating force for sizes 03 and 07: 3,5 daN. for sizes 12 to 61: daN. (More than standard specification SAE/AS 81703).

## Mass

Connectors weight in gram  $\pm 5$  gr, without nut and contacts.

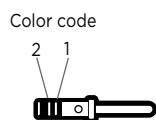
| Size | Type | Shells Types |       |       |       |       |
|------|------|--------------|-------|-------|-------|-------|
|      |      | 70/71        | 74    | 76    | 78    | 79    |
| 3    | P    | 7.10         | 10.60 | 16.70 | 23.20 | 12.05 |
|      | S    | 8.20         | 11.11 | 17.70 | 24.20 | 13.50 |
| 7    | P    | 12.05        | 13.15 | 21.88 | 28.88 | 19.68 |
|      | S    | 12.85        | 13.95 | 22.88 | 29.88 | 20.68 |
| 12   | P    | 15.95        | 17.91 | 28.80 | 35.90 | 26.30 |
|      | S    | 17.10        | 19.00 | 29.90 | 36.90 | 27.30 |
| 19   | P    | 19.80        | 22.10 | 38.05 | 45.05 | 31.55 |
|      | S    | 21.95        | 24.26 | 40.05 | 47.05 | 33.55 |
| 27   | P    | 24.30        | 27.66 | 46.90 | 53.90 | 36.40 |
|      | S    | 27.25        | 30.60 | 49.90 | 56.90 | 39.40 |
| 37   | P    | 27.50        | 33.15 | 53.92 | 60.92 | 48.22 |
|      | S    | 33.90        | 37.00 | 57.92 | 64.92 | 52.22 |
| 61   | P    | 45.95        | 53.52 | 76.38 | 82.38 | 72.58 |
|      | S    | 52.65        | 60.22 | 82.38 | 88.38 | 78.58 |

**P** male contact

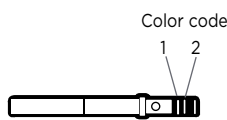
**S** female contact

# DEUTSCH DBAS Series Connectors

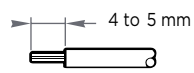
## Contacts



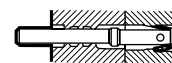
Male Contact



Female Contact



Wires Strip Length



Connector Rear Face

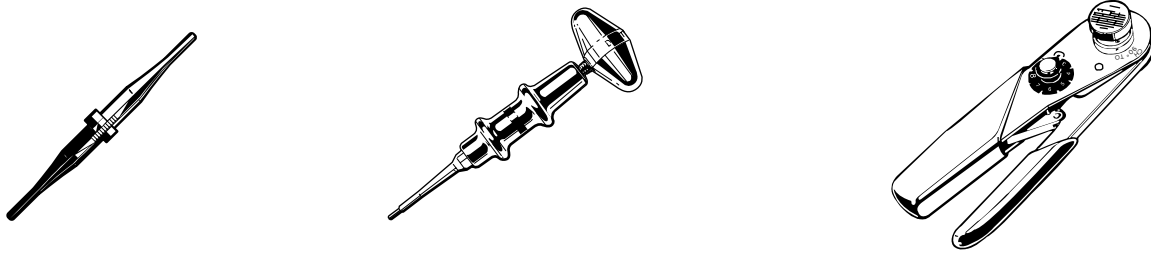
| CONTACTS                   |        |      |        |             |        |              | CABLES                  |               |          |               | SEALING PLUG |            |
|----------------------------|--------|------|--------|-------------|--------|--------------|-------------------------|---------------|----------|---------------|--------------|------------|
| New                        | Type   | Size | Indice | Color Code  |        |              | Observations            | Section in    | AWG Wire | Ø Over Sheath | Part Number  | Color Code |
|                            |        |      |        | 1           | 2      | Marking      |                         |               |          |               |              |            |
| 028-0108-22<br>028-0113-22 | P<br>S | 22   | —      | Green       | —      | —            | —                       | 0.15 to 0.38  | 22 - 26  | 0.71 to 1.25  | 028-0102-22  | Yellow     |
| 006-0937-20<br>006-0912-20 | P<br>S | 20   | —      | Red         | Red    | —            | —                       | 0.22 to 0.60  | 20 - 24  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 006-0972-20<br>006-0973-20 | P<br>S | 20   | —      | Red         | —      | —            | Reduced bucket contact  | 0.055 to 0.15 | 26 - 30  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 006-0044-20<br>006-0055-20 | P<br>S | 20   | —      | Red         | Brown  | —            | Enlarged bucket contact | 0.22 to 0.93  | 18 - 24  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 006-1186-20<br>006-1187-20 | P<br>S | 20   | —      | Red         | —      | Yellow point | Contact KP-NiCr         | 0.22 to 0.60  | 20 - 24  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 025-0404-20<br>025-0405-20 | P<br>S | 20   | —      | Red         | Brown  | Yellow point | Contact KP-NiCr         | 0.38 to 0.93  | 18 - 22  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 006-1188-20<br>006-1189-20 | P<br>S | 20   | —      | Red         | Red    | Black point  | Contact KN-NiAl         | 0.22 to 0.60  | 20 - 24  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 025-0402-20<br>025-0403-20 | P<br>S | 20   | —      | Red         | Brown  | Black point  | Contact KN-NiAl         | 0.38 to 0.93  | 18 - 22  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 006-1060-20<br>006-1062-20 | P<br>S | 20   | —      | Marking Co. |        |              | Contact co.             | 0.22 to 0.60  | 20 - 24  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 025-0406-20<br>025-0407-20 | P<br>S | 20   | —      | Red         | Purple | Marking Co.  | Contact co.             | 0.38 to 0.93  | 18 - 22  | 1.01 to 2.10  | 006-0893-20  | Red        |
| 006-0937-16<br>006-0912-16 | P<br>S | 16   | —      | Blue        | Blue   | —            | —                       | 0.60 to 1.34  | 16 - 20  | 1.35 to 2.62  | 006-0893-16  | Red        |
| 006-1102-16<br>006-1104-16 | P<br>S | 16   | —      | Blue        | Orange | —            | Enlarged Bucket contact | 1.91          | 14       | 1.35 to 2.62  | 006-0893-16  | Blue       |
| 025-0870-16<br>025-0871-16 | P<br>S | 16   | —      | Blue        | White  | —            | Reduced bucket contact  | 0.055 to 0.15 | 26 - 30  | 1.35 to 2.62  | 006-0893-16  | Blue       |
| 006-0937-12<br>006-0912-12 | P<br>S | 12   | —      | Yellow      | Yellow | —            | —                       | 1.91 to 3.18  | 12 - 14  | 2.51 to 4.01  | 006-0892-12  | Yellow     |
| 006-1157-12<br>006-1159-12 | P<br>S | 12   | —      | Yellow      | Blue   | —            | Reduced bucket contact  | 0.60 to 1.34  | 16 - 20  | 2.51 to 4.01  | 006-0892-12  | Yellow     |
| 005-0893-08<br>005-0896-08 | P<br>S | 8    | 8      | —           | —      | —            | Solder contact          | 5.30 to 8.98  | 8 - 10   | 3.80 to 5.15  | 006-0893-08  | Green      |
| 005-0257-08<br>005-0258-08 | P<br>S | 8    | 87     | Red         | Brown  | —            | Reduced bucket contact  | 5.30          | 10       | 3.80 to 5.15  | 006-0893-08  | Green      |
| 006-0041-08<br>006-0040-08 | P<br>S | 8    | 88     | Red         | —      | —            | —                       | 8.98          | 8        | 3.80 to 5.15  | 006-0893-08  | Green      |

### Standard contacts delivered with connector

Note: According to ISO 8843 norm, it is possible to have only one band, only if the colour of bands 1 and 2 is identical.

# DEUTSCH DBAS Series Connectors

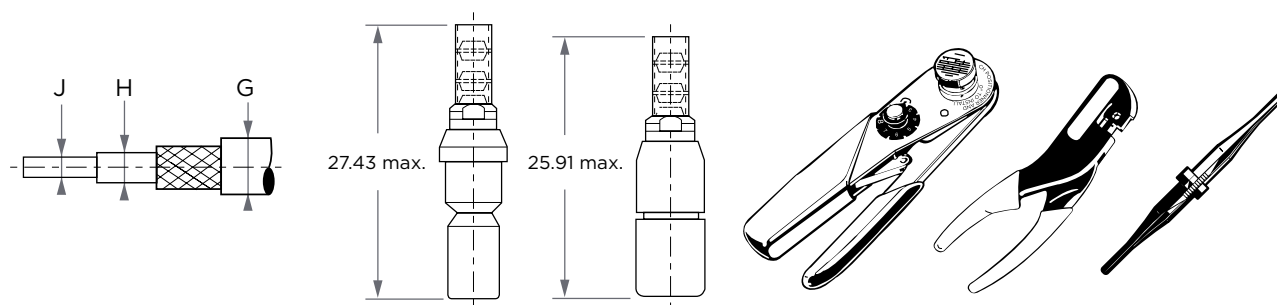
## Tools



| TOOLS                                         |                                    |               |               |                         |
|-----------------------------------------------|------------------------------------|---------------|---------------|-------------------------|
| Insertion and Extraction Tool, Wired Contacts | Extraction Tool Non Wired Contacts |               | Crimping Tool |                         |
|                                               | Part Number                        | Alternate End | Part Number   | Turret Head Part Number |
| 028-0114-22                                   | —                                  | —             | 057-0463-12   | 057-0470-32             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0463-12   | 057-0464-32             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 0579-0462-21            |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-20                                   | 057-0481-60                        | 057-0502-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-16                                   | 057-0481-60                        | 057-0499-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-16                                   | 057-0481-60                        | 057-0499-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-16                                   | 057-0481-60                        | 057-0499-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-16                                   | 057-0481-60                        | 057-0500-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-16                                   | 057-0481-60                        | 057-0500-60   | 057-0461-11   | 057-0462-21             |
| 006-0902-08                                   | 057-0616-60                        | —             | Soldered      | —                       |
| 006-0902-08                                   | 057-0616-60                        | —             | 057-0486-15   | 057-0065-00             |
| 006-0902-08                                   | 057-0616-60                        | —             | 057-0486-15   | 057-0065-00             |

# DEUTSCH DBAS Series Connectors

## Coax



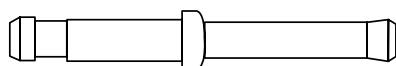
| CABLES               |       |       |       | CONTACTS     |                              |                              | TOOLS         |                     |             |             |                                                                                                           |
|----------------------|-------|-------|-------|--------------|------------------------------|------------------------------|---------------|---------------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------|
| Part Number          | G max | H max | J max | COAX         | MALES                        | FEMALES                      | Crimping tool |                     |             | Tools       |                                                                                                           |
|                      |       |       |       | Index        | Part Number Complete Contact | Part Number Complete Contact | Inter Contact | Crimping Pilot Stop | Sleeve      | Insertion   | Extraction                                                                                                |
| RG 179/U<br>RG 187/U | 2.95  | 1.52  | 0.76  | Without sans | 005-0920-00                  | 005-0921-00                  | 057-0463-12   | 057-0513-32         | 057-0519-05 | 006-0902-08 | K 22-3<br>RG 161/U<br>RG 174/U<br>RG 178/U<br>RG 178 A/U<br>006-0902-08<br>RG 188/U<br>RG 196/U<br>1709-6 |
| RG 195/U             | 3.94  | 2.62  | 0.76  | 1            | 005-0919-00                  | 005-0914-00                  | 057-0463-12   | 057-0513-32         | 057-0518-05 | 006-0902-08 | RG 180/U<br>057-0616-60                                                                                   |
| Spécial              | 2.95  | 1.52  | 0.97  | 9            | 005-0913-00                  | 005-0922-00                  | 057-0463-12   | 057-0513-32         | 057-0519-05 | 006-0902-08 | 006-0902-08                                                                                               |
| 50 PPDT              | 3.90  | 2     | 0.70  | F1           | 005-0065-00                  | 005-0066-00                  | 057-0463-12   | 057-0513-32         | 057-0518-05 | 006-0902-08 | 057-0616-60                                                                                               |
| Double braid         | 5.50  | 3.04  | 0.97  | F7           | 005-0983-00                  | 005-0984-00                  | 057-0463-12   | 057-0513-32         | 057-0520-05 | 006-0902-08 | RG 223/U<br>057-0616-60                                                                                   |
| 1709/33              | 2.85  | 1.75  | 0.70  | F8           | 005-1364-00                  | 005-1365-00                  | 057-0463-12   | 057-0513-32         | 057-0518-05 | 006-0902-08 | 057-0616-60                                                                                               |
| 66856                | 4.20  | 3.00  | 0.97  | F9           | 005-1445-00                  | 005-1446-00                  | 057-0463-12   | 057-0513-32         | 057-0518-05 | 006-0902-08 | 057-0616-60                                                                                               |

Dimensions in mm

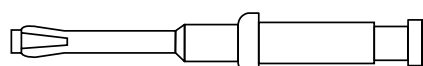
**Standards contacts delivered with connector.**

For wiring of coax contacts please use the directions for wiring NC 025 011.

## Micro coax size 16



Female Contact



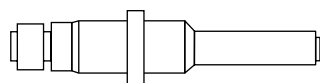
Male Contact

| CONTACTS                 |             |      | CRIMPING       |                            |             | TOOLS                                     |
|--------------------------|-------------|------|----------------|----------------------------|-------------|-------------------------------------------|
| Coax Wire Used           | Part Number | Type | Contact        | Crimping Tool              | Positioner  | Wired Contacts Insertion/Extraction Tools |
| RG 196 A/U<br>RG 178 B/U | 025-0847-00 | P    | Inner<br>Outer | 057-0463-12<br>057-0461-11 | 057-0462-21 | 057-0517-32<br>006-0902-16                |
| RG 196 A/U<br>RG 178 B/U | 025-0848-00 | S    | Inner<br>Outer | 057-0463-12<br>057-0461-11 | 057-0462-21 | 057-0517-32<br>006-0902-16                |

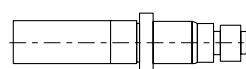
Wiring NC 025 071.

# DEUTSCH DBAS Series Connectors

## Micro Coax Size 12



Male Contact

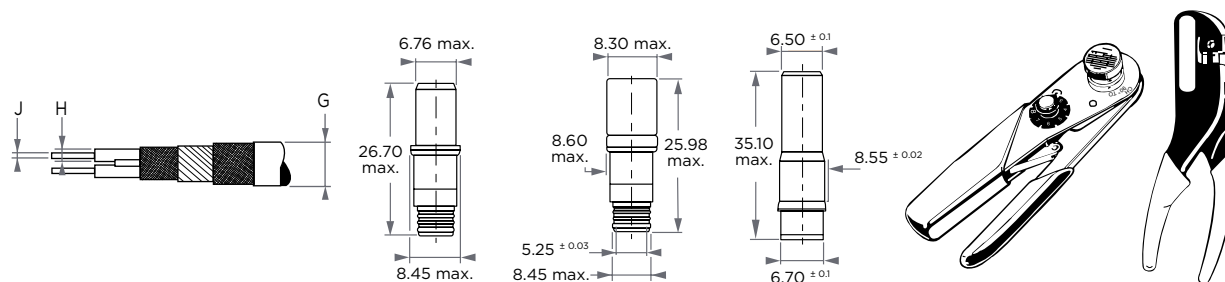


Female Contact

| Coax Wire Used                 | Part Number P Complete Contact | Part Number S Complete Contact | Crimping Tool | Positioner  | Sleeve Crimping Tool | Insertion/ Extraction Tool |
|--------------------------------|--------------------------------|--------------------------------|---------------|-------------|----------------------|----------------------------|
| Shielded                       | 006-1082-00                    | 006-1080-00                    | 057-0463-12   | 057-0524-32 | 057-0520-05          | 006-0902-12                |
| RG 180 B<br>RG 195 A           | 006-1089-00                    | 006-1091-00                    | 057-0463-12   | 057-0524-32 | 057-0520-05          | 006-0902-12                |
| Shielded<br>RG 174<br>RG 188 A | 006-1092-00                    | 006-1093-00                    | 057-0463-12   | 057-0524-32 | 057-0520-05          | 006-0902-12                |
| Shielded 28-30<br>RG 178 B     | 006-1094-00                    | 006-1095-00                    | 057-0463-12   | 057-0524-32 | 057-0520-05          | 006-0902-12                |
| RG 187 A<br>RG 196 A           | 006-1097-00                    | 006-1096-00                    | 057-0463-12   | 057-0524-32 | 057-0520-05          | 006-0902-12                |
| F 1703-66                      | 006-1183-00                    | 006-1184-00                    | 057-0463-12   | 057-0524-32 | 057-0520-05          | 006-0902-12                |

Wiring NC 025 041.

## Size 6 Bifilar



| CABLES       |      |          |      |          | CONTACTS                         |             |             |              |       | TOOLS            |             |             |                    |
|--------------|------|----------|------|----------|----------------------------------|-------------|-------------|--------------|-------|------------------|-------------|-------------|--------------------|
|              |      |          |      |          | Complete Contacts<br>Part Number |             |             | Sealing Plug |       |                  |             |             |                    |
| Core         |      |          |      |          |                                  |             |             | Part Number  |       | Crimping Tool    |             |             | Extraction<br>Tool |
| Color        | Size | G<br>max | H    | J<br>max | Indice                           | Males       | Female      | For P and S  | Color | Inner<br>Contact | Locator     | Sleeve      |                    |
| F 2709/9     | 22   | 4.80     | 1.68 | 0.80     | Without                          | 025-0709-01 | 025-0710-01 | 025-0689-06  | Blue  | 057-0463-12      | 057-0470-32 | 057-0088-00 | 025-0711-06        |
| F 2709/12    | 20   | 5.35     | 2.03 | 1        |                                  |             |             |              |       |                  |             |             |                    |
| F 2709/3     | 24   | 4.05     | 1.37 | 0.60     | M4                               | 025-0925-00 | 025-0926-00 | 025-0689-06  | Blue  | 057-0463-12      | 057-0470-32 | 057-0088-00 | 025-0711-06        |
| 17/176-00002 |      | 2.59     | 1.12 |          |                                  |             |             |              |       |                  |             |             |                    |

Dimensions in mm

### Standard contacts delivered with connector. .

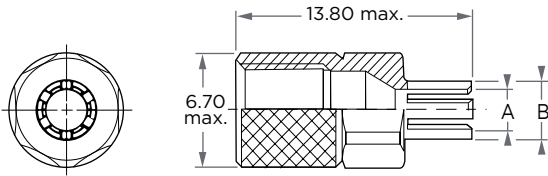
For wiring of coax contacts please use the directions for wiring NC 025 011.

# DEUTSCH DBAS Series Connectors

## COAX BRAID NUT

DBA - DBC

### For Hermetic Coax



| Index   | Cable    | Part Number | A max | B max  | Allowed Wire External |
|---------|----------|-------------|-------|--------|-----------------------|
| Without | RG 178/U | 14.60       | 20.45 | 79.00  | DBAS C 74-3           |
|         | RG 179/U | 046-0006-01 | 2.50  | 3.50   | 140 to 2.70           |
|         | RG 196/U | 20.90       | 20.45 | 95.00  | DBAS C 74-12          |
| 4       | RG 174/U | 25.70       | 20.45 | 95.00  | DBAS C 74-19          |
|         | RG 187/U | 046-0006-02 | 3.00  | 4.00   | 2.70 to 2.90          |
|         | RG 188/U | 32.00       | 20.45 | 111.00 | DBAS C 74-37          |
| 1       | RG 180/U | 38.40       | 20.45 | 111.00 | DBAS C 74-61          |
|         | RG 195/U | 046-0006-03 | 4.20  | 5.20   | 3.40 to 3.90          |
| 5       | RG 141/U | 046-0006-04 | 5.05  | 6.10   | 4.50 to 5.00          |

Wiring instruction.  
NC 025-031.

Dimensions in mm

# DEUTSCH DBAS Series Connectors

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## Section 2: DEUTSCH DBAS 7 - ESA/SCC QPL

### Highest Reliability

- European Space Agency (ESA) / Space Components Coordination Group (SCC) Qualified Parts List (QPL)
- Improved traceability
- Improved Quality insurance
- Additional in-process and final inspections screening of parts

### Large Range of Qualified Parts

- All shell types and sizes of DBAS 7 series sealed versions
- With or without grounding option on plugs
- Nickel
- ESA/SCC qualified crimp contacts size 8 to size 22 and accessories

### Connection Reliability

- Visual and sensitive locking (blind mating)
- Double keying system to help prevent any cross connection
- Leading clip to help prevent any accidental unmating on demand
- Interface and individual wire sealing



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- Double keying system to help prevent any cross connection
- Leading clip to help prevent any accidental unmating on demand
- Interface and individual wire sealing

|                                                                       | ESCC Specification*                    | Qualification Status*                          |
|-----------------------------------------------------------------------|----------------------------------------|------------------------------------------------|
| <b>CONNECTORS, ELECTRICAL, NON-FILTERED, CIRCULAR AND RECTANGULAR</b> | ESA/SCC Generic Specification No. 3401 | NA                                             |
| DBAS sealed receptacles                                               | ESCC Detail Specification No. 3401/008 | Qualified                                      |
| DBAS plugs                                                            | ESCC Detail Specification No. 3401/008 | Qualified                                      |
| Contacts for DBAS sealed receptacles and plugs, size 8 to size 20     | ESCC Detail Specification No. 3401/009 | Qualified                                      |
| Contacts for DBAS sealed receptacles and plugs, size 22               | ESCC Detail Specification No. 3401/012 | Qualified                                      |
| DBA stainless steel hermetic receptacle                               | ESCC Detail Specification No. 3401/023 | According to Detail Specification              |
| DBC hermetic receptacle                                               | ESCC Detail Specification No. 3401/043 | According to Detail Specification performances |
| DBAS savers type 171 / 172                                            | ESCC Detail Specification No. 3401/033 | According to Detail Specification              |
| Accessories for DBAS sealed receptacles and plugs                     | ESCC Detail Specification No. 3401/064 | Qualified                                      |

\* European Space Components Coordination (ESCC). Latest specifications editions and qualification status are available at <https://escies.org>

## Technical Characteristics

### Mechanical

|                           |                     |                                    |                                                                                                                                                                                                                  |
|---------------------------|---------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shell                     | Material            | Sealed version<br>Hermetic version | Aluminum alloy<br>DBC: Steel<br>DBA: Stainless steel                                                                                                                                                             |
|                           | Plating             | Sealed version<br>Hermetic version | Standard: Nickel<br>DBC: Tin over nickel plating                                                                                                                                                                 |
| RFI ring                  | Material<br>Plating |                                    | Beryllium copper<br>Nickel                                                                                                                                                                                       |
| Insert                    | Material            | Sealed version<br>Hermetic version | Fluorinated silicone and thermosetting resin<br>Glass insert, thermosetting resin, fluorinated silicone                                                                                                          |
|                           | Outgassing          |                                    | Meets ECSS-Q-ST-70-02C requirements<br>RML < 1,0 %<br>CVCM < 0,10%                                                                                                                                               |
| Contact                   | Type                | Sealed version<br>Hermetic version | Crimp type<br>DBC - DBA: Soldered bucket                                                                                                                                                                         |
|                           | Plating             | Sealed version<br>Hermetic version | Gold over nickel<br>DBC - DBA: Gold                                                                                                                                                                              |
| Insert contact retention  |                     |                                    | Size 22: 4,0 daN<br>Size 20: 7,0 daN<br>Size 16: 11,6 daN                                                                                                                                                        |
|                           |                     |                                    | Size 12: 11,6 daN<br>Size 8: 11,6 daN<br>Size 6: 11,6 daN                                                                                                                                                        |
| Vibrations                |                     |                                    | Sinusoidal: 20 G, 10- 2000 Hz, during 90 minutes (30 minutes on the 3 axis)<br>Random: Acceleration Spectral Density (ASD) of 0.2g <sup>2</sup> /Hz, 20 to 2000 Hz, during 90 minutes (30 minutes on the 3 axis) |
| Physical shocks           |                     | Sealed and<br>Hermetic version     | 100 G, during 11 ms, half-sine wave in the 3 axes                                                                                                                                                                |
| Durability                |                     | Sealed and<br>Hermetic version     | 500 full mating / unmating cycles<br>250 full mating / unmating cycles for plugs with RFI fingers                                                                                                                |
| Pressure insert retention |                     | Hermetic version                   | 30 to 70 bars                                                                                                                                                                                                    |
| Sealing                   |                     | Hermetic version                   | Less than 10 <sup>-8</sup> cm <sup>3</sup> /s of helium under 10 <sup>-6</sup> Torr vacuum                                                                                                                       |

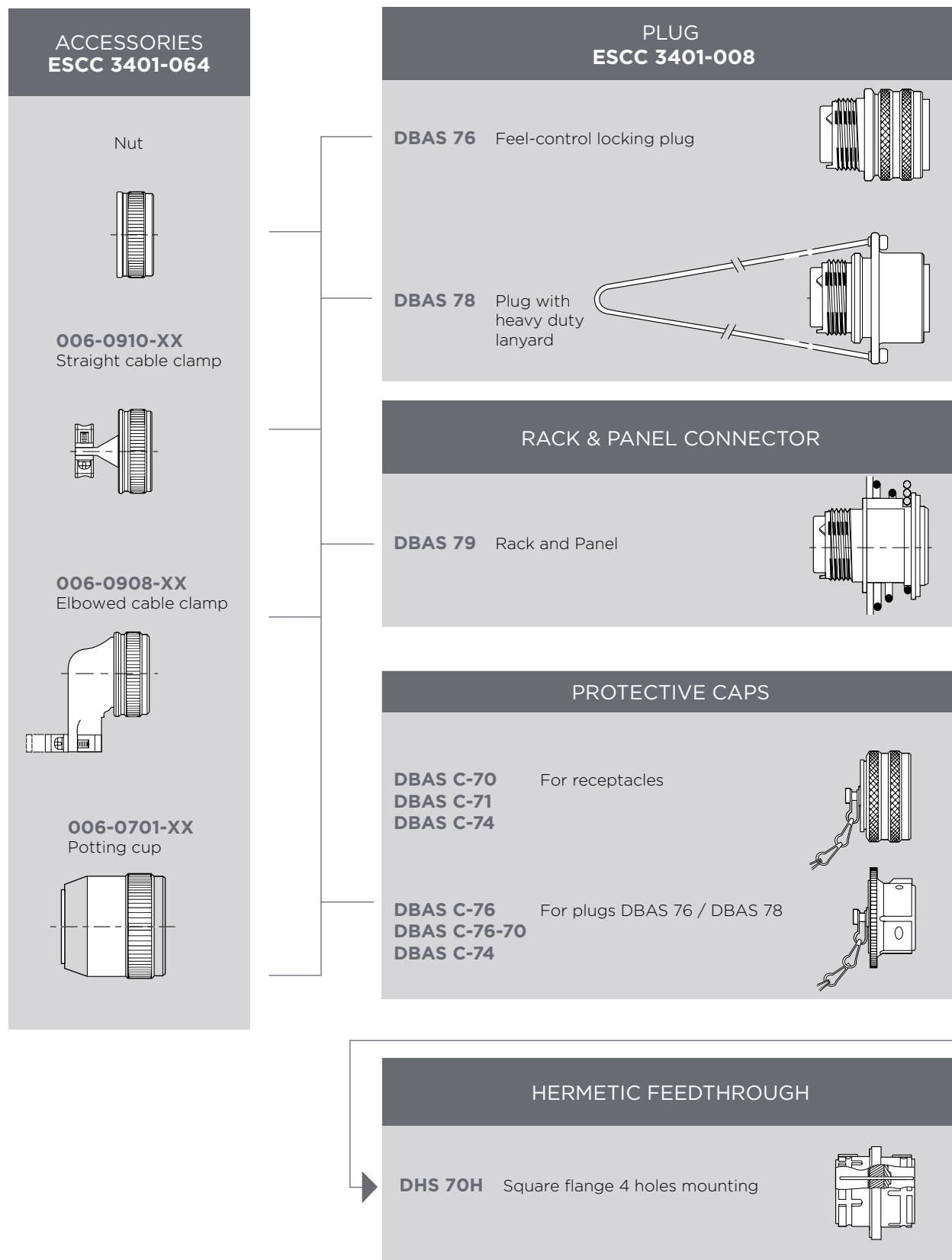
### Environmental conditions

|                     |                                |                                   |
|---------------------|--------------------------------|-----------------------------------|
| Service temperature |                                | - 65° C to + 200° C               |
| Thermal shocks      |                                | 5 cycles of - 65° C to + 200° C   |
| Corrosion           | Sealed and<br>Hermetic version | Withstands 96 hours of salt spray |

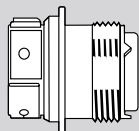
### Electrical

|                                    |                           |                                    |                                                                              |                                        |
|------------------------------------|---------------------------|------------------------------------|------------------------------------------------------------------------------|----------------------------------------|
| Working Voltage                    |                           | At sea level<br>At 33 000 m        | Contacts Size 20, 16, 12, 08: 375 V <sub>rms</sub><br>200 V <sub>rms</sub>   | Contacts Size 22: 250 V <sub>rms</sub> |
| Voltage Proof -<br>Leakage Current |                           |                                    | ≤ 2.0 mA under 1 500 V                                                       |                                        |
| Insulation resistance              |                           | Sealed version<br>Hermetic version | ≥ at 10 000 MΩ at 25° C and 60% R.H.<br>≥ at 5 000 MΩ at 25° C and 60 % R.H. |                                        |
| Mated shell conductivity           | Plugs with<br>RFI fingers | Sealed version                     | ≤ 5 mΩ                                                                       |                                        |
|                                    |                           | Hermetic version                   | ≤ 50 mΩ                                                                      |                                        |
| Contact maximum current            |                           | Sealed version                     | Size 22: 2,5 to 5 A                                                          | Size 12: 13 to 25 A                    |
|                                    |                           |                                    | Size 20: 2,5 to 7,5 A                                                        | Size 8: 32 to 46 A                     |
|                                    |                           |                                    | Size 16: 7,5 to 13 A                                                         |                                        |
|                                    |                           | Hermetic version                   | Size 20: 5 A<br>Size 16: 10 A                                                | Size 12: 17 A<br>Size 8: 33 A          |

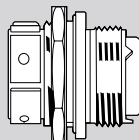
## Synoptic



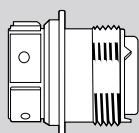
## RECEPTACLES ESCC 3401-008



**DBAS 70** Square flange 4 holes mounting

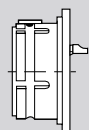


**DBAS 74** Jam-nut mounted receptacle

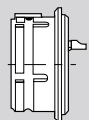


**DBAS 71** Cable connecting receptacle

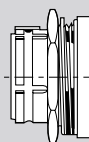
## HERMETICAL RECEPTACLES



**DBA 70H** Square flange 4 holes mounting  
**DBC 70H**

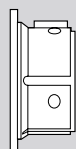


**DBA 73H** Solder flange  
**DBC 73H**

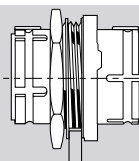


**DBA 74H** Jam-nut mounted receptacle  
**DBC 74H**

## DUMMY RECEPTACLE



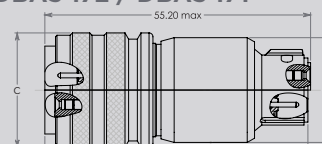
**DBA 70 PR** Square flange 4 holes mounting



**DHS 74H** Jam-nut mounted receptacle

## SAVERS

### DBAS 172 / DBAS 171



## Part Numbering System

|                                                    |             |           |          |           |           |          |            |           |            |             |            |
|----------------------------------------------------|-------------|-----------|----------|-----------|-----------|----------|------------|-----------|------------|-------------|------------|
|                                                    | <b>DBAS</b> | <b>76</b> | <b>G</b> | <b>27</b> | <b>13</b> | <b>P</b> | <b>N**</b> | <b>DA</b> | <b>090</b> | <b>****</b> | <b>SCC</b> |
| <b>Connector type</b>                              |             |           |          |           |           |          |            |           |            |             |            |
| <b>Shell type</b>                                  |             |           |          |           |           |          |            |           |            |             |            |
| <b>70</b> Square flange receptacle with nut        |             |           |          |           |           |          |            |           |            |             |            |
| <b>71</b> Cable connecting receptacle with nut     |             |           |          |           |           |          |            |           |            |             |            |
| <b>74</b> Jam-nut mounting receptacle with nut     |             |           |          |           |           |          |            |           |            |             |            |
| <b>76</b> Feel-control locking plug with nut       |             |           |          |           |           |          |            |           |            |             |            |
| <b>78</b> Plug with heavy duty lanyard and nut     |             |           |          |           |           |          |            |           |            |             |            |
| <b>79</b> Rack and panel with nut                  |             |           |          |           |           |          |            |           |            |             |            |
| <b>Grounding continuity index (only for plugs)</b> |             |           |          |           |           |          |            |           |            |             |            |
| Without Index: no RFI fingers on shells            |             |           |          |           |           |          |            |           |            |             |            |
| 76 - 78 - 79                                       |             |           |          |           |           |          |            |           |            |             |            |
| With G Index: with RFI fingers on shells           |             |           |          |           |           |          |            |           |            |             |            |
| 76 - 78 - 79                                       |             |           |          |           |           |          |            |           |            |             |            |
| <b>Shell size</b>                                  |             |           |          |           |           |          |            |           |            |             |            |
| 3-7-12-19-27-37-61                                 |             |           |          |           |           |          |            |           |            |             |            |
| <b>Arrangements</b>                                |             |           |          |           |           |          |            |           |            |             |            |
| (See page 52-53)                                   |             |           |          |           |           |          |            |           |            |             |            |
| <b>Contact type</b>                                |             |           |          |           |           |          |            |           |            |             |            |
| P Pin contact                                      |             |           |          |           |           |          |            |           |            |             |            |
| S Socket contact                                   |             |           |          |           |           |          |            |           |            |             |            |
| <b>Insert clocking position</b>                    |             |           |          |           |           |          |            |           |            |             |            |
| <b>N</b> Normal                                    |             |           |          |           |           |          |            |           |            |             |            |
| <b>W - X - Y - B - C</b>                           |             |           |          |           |           |          |            |           |            |             |            |
| Others (See page 50)                               |             |           |          |           |           |          |            |           |            |             |            |
| <b>Key orientation (Except 79)</b>                 |             |           |          |           |           |          |            |           |            |             |            |
| (See page 51)                                      |             |           |          |           |           |          |            |           |            |             |            |
| <b>Mandatory mode code *</b>                       |             |           |          |           |           |          |            |           |            |             |            |
| (see page 51)                                      |             |           |          |           |           |          |            |           |            |             |            |
| <b>Special modifications</b>                       |             |           |          |           |           |          |            |           |            |             |            |
| (See page 53)                                      |             |           |          |           |           |          |            |           |            |             |            |
| <b>ESA space grade</b>                             |             |           |          |           |           |          |            |           |            |             |            |

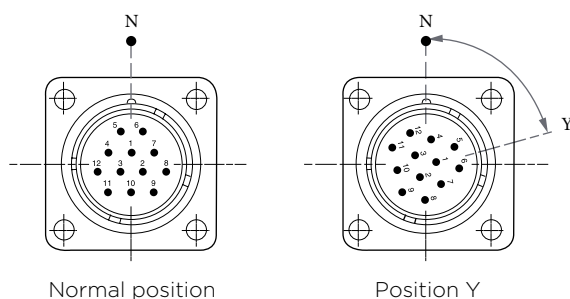
\* ESA grade sealed connectors are delivered without contact and can be delivered only with nut. For other accessory, please indicate mod code "090-1A" instead of "090" on connector part number and order requested accessory separately.

## Part Numbering System

|                                                                                                                                                | DBA | 70 | H | 27 | 2 | P | N** | 1 | DA | **** | SCC |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---|----|---|---|-----|---|----|------|-----|
| <b>Connector type</b><br>DBA Stainless steel hermetic receptacle, solder contact<br>DBC Hermetic receptacle, solder contact<br>DHS Feedthrough |     |    |   |    |   |   |     |   |    |      |     |
| <b>Shell type</b><br>70 Square flange receptacle<br>73 Solder flange receptacle<br>74 Jam-nut mounted receptacle                               |     |    |   |    |   |   |     |   |    |      |     |
| <b>Hermetics</b>                                                                                                                               |     |    |   |    |   |   |     |   |    |      |     |
| <b>Shell size</b><br>3-7-12-19-27-37-61                                                                                                        |     |    |   |    |   |   |     |   |    |      |     |
| <b>Arrangements</b><br>(See page 52-53)                                                                                                        |     |    |   |    |   |   |     |   |    |      |     |
| <b>Contact type</b><br>P Pin contact                                                                                                           |     |    |   |    |   |   |     |   |    |      |     |
| <b>Insert clocking position</b><br>N Normal<br>W - X - Y - B - C Others<br>(See page 50)                                                       |     |    |   |    |   |   |     |   |    |      |     |
| <b>Index for contacts*</b><br>(See page 39, 41-42)                                                                                             |     |    |   |    |   |   |     |   |    |      |     |
| <b>Key Orientation</b><br>(See page 51)                                                                                                        |     |    |   |    |   |   |     |   |    |      |     |
| <b>Special modifications</b><br>(See page 53)                                                                                                  |     |    |   |    |   |   |     |   |    |      |     |
| <b>ESA space grade</b>                                                                                                                         |     |    |   |    |   |   |     |   |    |      |     |

## Insert Clocking Position

Clocking position is normal (N) when the insert vertical axis is intermingled with the shell keyway axis. An unkeying can be performed between 2 connectors of same layout by angular displacement of one of the inserts in its shell. This insert rotation is made in the clockwise for male layouts and in the counter clockwise for female layouts. Angular displacements on the hereafter table give clocking position W, X, Y, B or C.



Example of insert angular displacement, male front face view

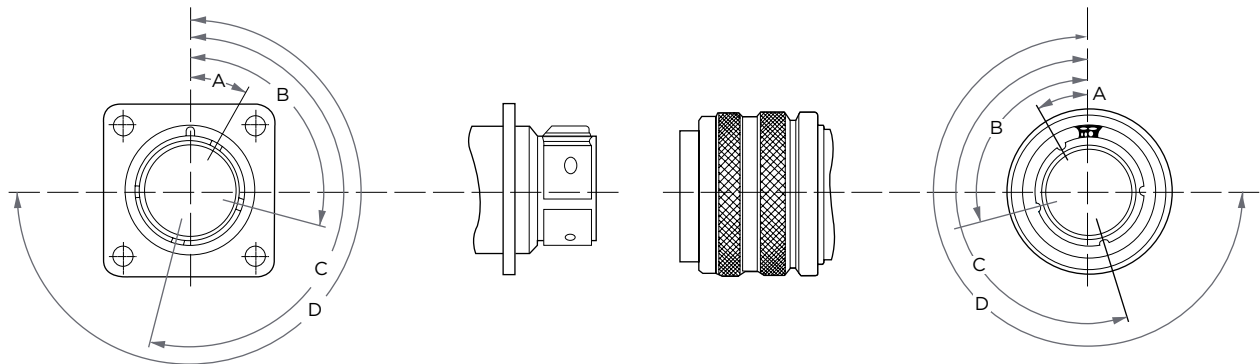
| Arrangements | Clocking Position in Degrees |       |       |     |        | Contacts Sizes |    |    |    |    |   | Service |
|--------------|------------------------------|-------|-------|-----|--------|----------------|----|----|----|----|---|---------|
|              | W                            | X     | Y     | B   | C      | 22             | 20 | 16 | 12 | 8  | 6 |         |
| 3-0          | 25                           | 50    | 75    | 150 | 220    | —              | 3  | —  | —  | —  | — | I       |
| 3-01         | —                            | —     | —     | —   | —      | —              | —  | —  | —  | 1  | — | —       |
| 7-0          | 27.30                        | 47.30 | 75    | 150 | 225    | —              | 7  | —  | —  | —  | — | I       |
| 12-0         | 15                           | 50    | 75    | 150 | 225    | —              | 12 | —  | —  | —  | — | I       |
| 19-0         | 25                           | 50    | 75    | 150 | 225    | —              | 19 | —  | —  | —  | — | I       |
| 19-2         | 25                           | 50    | 75    | 150 | 225    | —              | 9  | —  | —  | 2  | — | I       |
| 19-4         | —                            | —     | 22°30 | 135 | 247°30 | —              | —  | —  | 4  | —  | — | I       |
| 19-7         | —                            | —     | 75    | 150 | 225    | —              | —  | —  | 7  | —  | — | I       |
| 19-12        | 25                           | 50    | 75    | 150 | 225    | —              | —  | 12 | —  | —  | — | I       |
| 27-0         | 25                           | 50    | 75    | 150 | 225    | —              | 27 | —  | —  | —  | — | I       |
| 27-2         | 25                           | 50    | 75    | 150 | 225    | —              | —  | 14 | —  | —  | — | II      |
| 27-8         | 25                           | 50    | 75    | 150 | 225    | —              | —  | 6  | 4  | —  | — | I       |
| 27-13        | 25                           | 50    | 75    | 150 | 225    | —              | 12 | —  | —  | 3  | — | I       |
| 37-0         | 25                           | 50    | 75    | 150 | 225    | —              | 37 | —  | —  | —  | — | I       |
| 37-3         | 20                           | 70    | 75    | —   | —      | —              | —  | —  | 12 | —  | — | I       |
| 37-13        | —                            | —     | 75    | 150 | 225    | —              | 30 | —  | —  | 1  | — | I       |
| 37-19        | 25                           | 50    | 75    | 150 | 225    | —              | 13 | —  | —  | 6  | — | I       |
| 37-27        | —                            | —     | 75    | 150 | 225    | —              | 6  | —  | —  | 7  | — | I       |
| 37-30        | 25                           | 50    | 75    | 150 | 225    | —              | 20 | —  | —  | 4  | — | I       |
| 37-924       | 105                          | 13    | —     | —   | —      | —              | —  | 24 | —  | —  | — | I       |
| 37-961       | —                            | —     | —     | —   | —      | 61             | —  | —  | —  | —  | — | —       |
| 61-0         | 25                           | 50    | 75    | 150 | 225    | —              | 61 | —  | —  | —  | — | I       |
| 61-5         | 25                           | 50    | 75    | 150 | 225    | —              | 49 | —  | —  | 2  | — | I       |
| 61-14        | 25                           | 50    | 75    | 150 | 225    | —              | —  | 37 | —  | —  | — | —       |
| 61-21        | 25                           | 50    | 75    | 150 | 225    | —              | —  | —  | —  | 12 | — | I       |
| 61-42        | —                            | 67°30 | —     | —   | —      | —              | 29 | 4  | 8  | —  | — | —       |
| 61-929       | —                            | —     | —     | —   | —      | —              | 15 | 8  | —  | 6  | — | —       |
| 61-949       | 25                           | 50    | 75    | 150 | 225    | —              | 46 | —  | —  | 3  | — | —       |

# DEUTSCH DBAS Series SCC

## Key Orientation

Receptacle front face view

Plug front face view

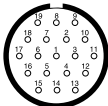
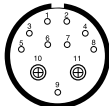
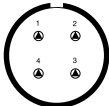
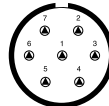
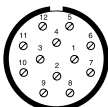
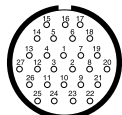
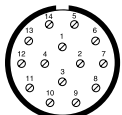
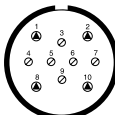
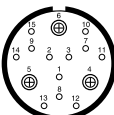
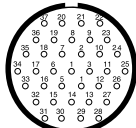
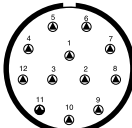
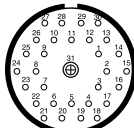
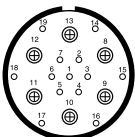
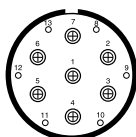
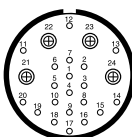
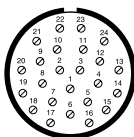


| Angles<br>Size | 3  |    |     |   | 7  |     |     |     | 12 |     |     |     | 19 |     |     |     | 27 |     |     |     | 37 |     |     |     | 61 |     |     |     |
|----------------|----|----|-----|---|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|
|                | A  | B  | C   | D | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   | A  | B   | C   | D   |
| Standard       | 23 | 97 | 187 | — | 23 | 97  | 187 | 277 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 | 30 | 105 | 195 | 270 |
| DA             | —  | —  | —   | — | 23 | 105 | 195 | 300 | 30 | 90  | 225 | 315 | 40 | 105 | 195 | 270 | 40 | 105 | 195 | 270 | 40 | 105 | 195 | 270 | 40 | 105 | 195 | 270 |
| DB             | —  | —  | —   | — | 23 | 115 | 210 | 285 | 30 | 120 | 210 | 285 | 30 | 115 | 195 | 270 | 30 | 115 | 195 | 270 | 30 | 115 | 195 | 270 | 30 | 115 | 195 | 270 |
| DC             | —  | —  | —   | — | 30 | 120 | 195 | 285 | 30 | 135 | 180 | 300 | 30 | 115 | 210 | 270 | 30 | 115 | 210 | 270 | 30 | 115 | 210 | 270 | 30 | 115 | 210 | 270 |
| DD             | —  | —  | —   | — | 30 | 97  | 210 | 270 | 45 | 105 | 210 | 315 | 30 | 115 | 195 | 280 | 30 | 115 | 195 | 280 | 30 | 115 | 195 | 280 | 30 | 115 | 195 | 280 |
| DE             | —  | —  | —   | — | —  | —   | —   | —   | 45 | 90  | 180 | 285 | —  | —   | —   | —   | —  | —   | —   | —   | 30 | 90  | 170 | 270 | 30 | 90  | 170 | 270 |
| DF             | —  | —  | —   | — | —  | —   | —   | —   | 45 | 120 | 270 | 300 | —  | —   | —   | —   | —  | —   | —   | —   | 30 | 115 | 170 | 255 | 30 | 115 | 170 | 255 |
| DG             | —  | —  | —   | — | —  | —   | —   | —   | 45 | 135 | 195 | 225 | —  | —   | —   | —   | —  | —   | —   | —   | 30 | 115 | 180 | 300 | 30 | 115 | 180 | 300 |



## Arrangements

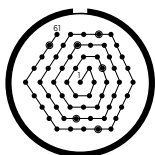
### Male insert viewed from front face

|                                                                                                                                              |                                                                                                                                             |                                                                                                                                               |                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3-0</b> 3 contacts size 20<br>                           | <b>3-01</b> 1 contact size 8<br>                           | <b>7-0</b> 7 contacts size 20<br>                           | <b>12-0</b> 12 contacts size 20<br>                        |
| <b>19-0</b> 19 contacts size 20<br>                         | <b>19-2</b> 9 contacts size 20<br>2 contacts size 8<br>    | <b>19-4</b> 4 contacts size 12<br>                          | <b>19-7</b> 7 contacts size 12<br>                         |
| <b>19-12</b> 12 contacts size 16<br>                      | <b>27-0</b> 27 contacts size 20<br>                      | <b>27-2</b> 14 contacts size 16<br>                       | <b>27-8</b> 6 contacts size 16<br>4 contacts size 12<br> |
| <b>27-13</b> 12 contacts size 20<br>3 contacts size 8<br> | <b>37-0</b> 37 contacts size 20<br>                      | <b>37-3</b> 12 contacts size 12<br>                       | <b>37-13</b> 30 contacts size 20<br>1 contact size 8<br> |
| <b>37-19</b> 13 contacts size 20<br>6 contacts size 8<br> | <b>37-27</b> 6 contacts size 20<br>7 contacts size 8<br> | <b>37-30</b> 20 contacts size 20<br>4 contacts size 8<br> | <b>37-924</b> 24 contacts size 16<br>                    |

\* For hermetic versions, consult TE.

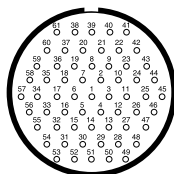
**37-961**

61 contacts size 22



**61-0**

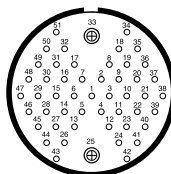
61 contacts size 20



\*

**61-5**

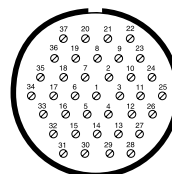
49 contacts size 20  
2 contacts size 8



\*

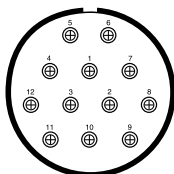
**61-14**

37 contacts size 16



**61-21**

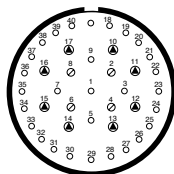
12 contacts size 8



\*

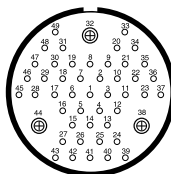
**61-42**

29 contacts size 20  
4 contacts size 16  
8 contacts size 12



**61-949**

46 contacts size 20  
3 contacts size 8



\*

\* For hermetic versions, consult TE.

# DEUTSCH DBAS Series SCC

## Specific Modifications

| Mod Code | Description                                     |
|----------|-------------------------------------------------|
| 090      | Without contact                                 |
| 090-1A   | Without contact + without nut                   |
| 090 A614 | Without contact + lanyard length 134.3 ± 2.1 mm |
| 090 B614 | Without contact + lanyard length 164.3 ± 2.1 mm |
| 090 C614 | Without contact + lanyard length 194.3 ± 2.1 mm |
| *****    | For other modifications, consult TE             |

## Lengths of Lanyard

| MOD<br>614 | 3<br>± 2.10 | 7<br>± 2.10 | 12<br>± 2.10 | 19<br>± 2.10 | 27<br>± 2.10 | 37<br>± 2.10 | 61<br>± 2.10 |
|------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Standard   | 120.35      | 120.10      | 119.95       | 119.70       | 119.40       | 119.20       | 118.35       |
| A614       | 134.95      | 134.70      | 134.55       | 134.30       | 134.00       | 133.80       | 132.95       |
| B614       | 164.95      | 164.70      | 164.55       | 164.30       | 164.00       | 163.80       | 162.95       |
| C614       | 194.95      | 194.70      | 194.55       | 194.30       | 194          | 193.80       | 192.95       |
| D614       | 205.35      | 205.10      | 204.95       | 204.70       | 204.40       | 204.20       | 203.35       |
| E614       | 217.65      | 217.40      | 217.25       | 217.00       | 216.70       | 216.50       | 215.65       |
| F614       | 230.65      | 230.40      | 230.25       | 230.00       | 229.70       | 229.50       | 228.65       |
| G614       | 145.05      | 144.80      | 144.65       | 144.40       | 144.10       | 143.90       | 143.05       |
| H614       | 95.05       | 94.80       | 94.65        | 94.40        | 94.10        | 93.90        | 93.05        |
| K614       | 125.45      | 125.20      | 125.05       | 124.80       | 124.50       | 124.30       | 123.45       |
| L614       | 245.05      | 244.80      | 244.65       | 244.40       | 244.10       | 243.90       | 243.05       |

For other lengths of lanyard, consult TE. Dimensions in mm

| MOD<br>614 | 3<br>± 2.10 | 7<br>± 2.10 | 12<br>± 2.10 | 19<br>± 2.10 | 27<br>± 2.10 | 37<br>± 2.10 | 61<br>± 2.10 |
|------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| M614       | 495.05      | 494.80      | 494.65       | 494.40       | 494.10       | 493.90       | 493.05       |
| N614       | 99.35       | 99.10       | 98.95        | 98.70        | 98.40        | 98.20        | 97.35        |
| P614       | 295.05      | 294.80      | 294.65       | 294.40       | 294.10       | 293.90       | 293.05       |
| Q614       | 191.05      | 190.80      | 190.65       | 194.40       | 190.10       | 189.90       | 189.05       |
| R614       | 109.65      | 109.40      | 109.25       | 109.00       | 108.70       | 108.50       | 107.65       |
| S614       | 154.25      | 154.00      | 153.85       | 153.60       | 153.30       | 153.10       | 152.25       |
| T614       | 76.05       | 75.80       | 75.65        | 75.40        | 75.10        | 74.90        | 74.05        |
| U614       | 119.47      | 119.22      | 119.07       | 118.82       | 118.52       | 118.32       | 117.47       |
| V614       | 87.75       | 87.50       | 87.35        | 87.10        | 86.80        | 86.60        | 85.75        |
| W614       | 385.55      | 385.30      | 385.15       | 384.90       | 384.60       | 384.40       | 383.55       |
| X614       | 171.65      | 171.40      | 171.25       | 171.00       | 170.70       | 170.50       | 169.65       |

# DEUTSCH DBAS Series SCC

## Equivalence Table

|                                                                   | ESCC Specification | ESCC Component Number | TE Part Number                     |
|-------------------------------------------------------------------|--------------------|-----------------------|------------------------------------|
| DBAS sealed receptacles and plugs                                 | ESCC 3401/008      | 340100801B            | DBAS 7* * *-** * * * SCC           |
| Contacts for DBAS sealed receptacles and plugs, size 8 to size 20 | ESCC No. 3401/009  | 340100901B            | 006-0937-20 SCC                    |
|                                                                   |                    | 340100902B            | 006-0912-20 SCC                    |
|                                                                   |                    | 340100903B            | 006-0044-20 SCC                    |
|                                                                   |                    | 340100904B            | 006-0055-20 SCC                    |
|                                                                   |                    | 340100905B            | 006-0972-20 SCC                    |
|                                                                   |                    | 340100906B            | 006-0973-20 SCC                    |
|                                                                   |                    | 340100907B            | 006-0937-16 SCC                    |
|                                                                   |                    | 340100908B            | 006-0912-16 SCC                    |
|                                                                   |                    | 340100909B            | 006-1168-16 SCC                    |
|                                                                   |                    | 340100910B            | 006-1169-16 SCC                    |
|                                                                   |                    | 340100911B            | 006-0937-12 SCC                    |
|                                                                   |                    | 340100912B            | 006-0912-12 SCC                    |
|                                                                   |                    | 340100913B            | 006-1157-12 SCC                    |
|                                                                   |                    | 340100914B            | 006-1159-12 SCC                    |
|                                                                   |                    | 340100915B            | 006-0041-08 SCC                    |
|                                                                   |                    | 340100916B            | 006-0040-08 SCC                    |
|                                                                   |                    | 340100917B            | 005-0257-08 SCC                    |
|                                                                   |                    | 340100918B            | Consult us                         |
|                                                                   |                    | 340100919B            | 005-0893-08 SCC                    |
|                                                                   |                    | 340100920B            | 005-0896-08 SCC                    |
| Contacts for DBAS sealed receptacles and plugs, size 22           | ESCC No. 3401/012  | 340101201B            | 028-0108-22 SCC<br>029-0100-22 SCC |
|                                                                   |                    | 340101202B            | 028-0113-22 SCC<br>029-0101-22 SCC |
|                                                                   |                    | 340101203B            | DF 28-046-22 C SCC                 |
|                                                                   |                    | 340101204B            | DF 28 A 047-22 C SCC               |
| DBA stainless steel hermetic receptacles                          | ESCC No. 3401/023  | 3401023B              | DBA 7* H *-** * * * SCC            |
| DBC hermetic receptacles                                          | ESCC No. 3401/043  | 340104301B            | DBC 7* H *-** * * * SCC            |
| DBAS savers type 171 - 172                                        | ESCC No. 3401/033  | 340103301B            | DBAS 171 *-** * SCC                |
|                                                                   |                    | 340103302B            | DBAS 172 *-** * SCC                |

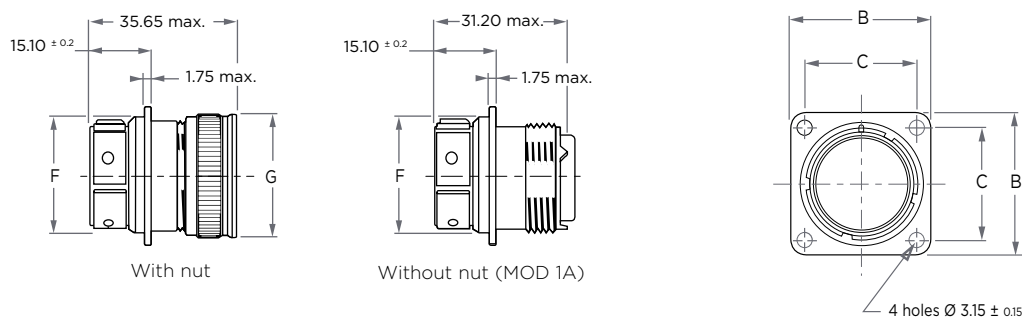
# DEUTSCH DBAS Series SCC

Equivalence Table

|                                                   | ESCC Specification | ESCC Component Number | TE Part Number       |
|---------------------------------------------------|--------------------|-----------------------|----------------------|
| Accessories for DBAS sealed receptacles and plugs | ESCC No. 3401/064  | 340106401B            | 006-0909-03-A499 SCC |
|                                                   |                    | 340106402B            | 006-0909-12-A499 SCC |
|                                                   |                    | 340106403B            | 006-0909-14-A499 SCC |
|                                                   |                    | 340106404B            | 006-0909-16-A499 SCC |
|                                                   |                    | 340106405B            | 006-0909-18-A499 SCC |
|                                                   |                    | 340106406B            | 006-0909-20-A499 SCC |
|                                                   |                    | 340106407B            | 006-0909-61-A499 SCC |
|                                                   |                    | 340106408B            | 006-0910-03-A499 SCC |
|                                                   |                    | 340106409B            | 006-0910-12-A499 SCC |
|                                                   |                    | 340106410B            | 006-0910-14-A499 SCC |
|                                                   |                    | 340106411B            | 006-0910-16-A499 SCC |
|                                                   |                    | 340106412B            | 006-0910-18-A499 SCC |
|                                                   |                    | 340106413B            | 006-0910-20-A499 SCC |
|                                                   |                    | 340106414B            | 006-0910-61-A499 SCC |
|                                                   |                    | 340106415B            | 006-0908-03-A499 SCC |
|                                                   |                    | 340106416B            | 006-0908-12-A499 SCC |
|                                                   |                    | 340106417B            | 006-0908-14-A499 SCC |
|                                                   |                    | 340106418B            | 006-0908-16-A499 SCC |
|                                                   |                    | 340106419B            | 006-0908-18-A499 SCC |
|                                                   |                    | 340106420B            | 006-0908-20-A499 SCC |
|                                                   |                    | 340106421B            | 006-0908-61-A499 SCC |
|                                                   |                    | 340106422B            | 006-0701-03-A499 SCC |
|                                                   |                    | 340106423B            | 006-0701-12-A499 SCC |
|                                                   |                    | 340106424B            | 006-0701-14-A499 SCC |
|                                                   |                    | 340106425B            | 006-0701-16-A499 SCC |
|                                                   |                    | 340106426B            | 006-0701-18-A499 SCC |
|                                                   |                    | 340106427B            | 006-0701-20-A499 SCC |
|                                                   |                    | 340106428B            | 006-0701-61-A499 SCC |
|                                                   |                    | 340106429B            | 006-0005-08 SCC      |
|                                                   |                    | 340106430B            | 006-0005-12 SCC      |
|                                                   |                    | 340106431B            | 006-0005-14 SCC      |
|                                                   |                    | 340106432B            | 006-0005-16 SCC      |
|                                                   |                    | 340106433B            | 006-0005-18 SCC      |
|                                                   |                    | 340106434B            | 006-0005-20 SCC      |
|                                                   |                    | 340106435B            | 006-0005-61 SCC      |
|                                                   |                    | 340106436B            | 006-0006-12 SCC      |
|                                                   |                    | 340106437B            | 006-0006-14 SCC      |
|                                                   |                    | 340106438B            | 006-0006-18 SCC      |
|                                                   |                    | 340106439B            | 006-0006-20 SCC      |
|                                                   |                    | 340106440B            | 006-0006-22 SCC      |
|                                                   |                    | 340106441B            | 006-0006-24 SCC      |

# DEUTSCH DBAS Series SCC

## DBAS 70 - Square Flange Receptacle

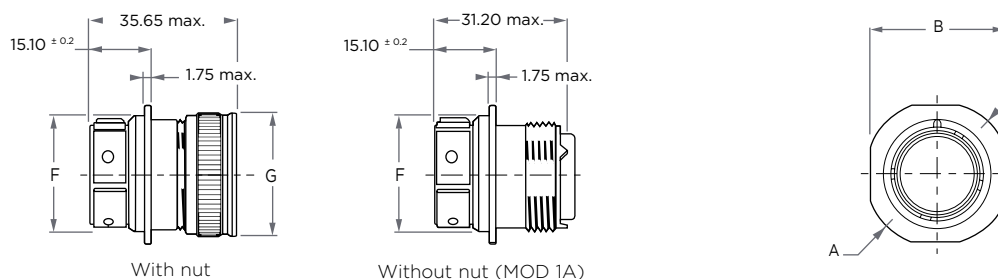


| Part Number               | B max | C max | F max | G max | Part Number                  |
|---------------------------|-------|-------|-------|-------|------------------------------|
| DBAS 70-3-**-P/S 090 SCC  | 22.60 | 15.90 | 14.50 | 17.00 | DBAS 70-3-**-P/S 090-1A SCC  |
| DBAS 70-7-**-P/S 090 SCC  | 25.80 | 18.26 | 17.35 | 21.80 | DBAS 70-7-**-P/S 090-1A SCC  |
| DBAS 70-12-**-P/S 090 SCC | 28.20 | 20.62 | 20.80 | 25.00 | DBAS 70-12-**-P/S 090-1A SCC |
| DBAS 70-19-**-P/S 090 SCC | 30.60 | 23.02 | 24.00 | 28.25 | DBAS 70-19-**-P/S 090-1A SCC |
| DBAS 70-27-**-P/S 090 SCC | 33.00 | 24.58 | 28.65 | 30.95 | DBAS 70-27-**-P/S 090-1A SCC |
| DBAS 70-37-**-P/S 090 SCC | 36.90 | 30.12 | 31.95 | 34.15 | DBAS 70-37-**-P/S 090-1A SCC |
| DBAS 70-61-**-P/S 090 SCC | 45.70 | 36.48 | 39.90 | 42.00 | DBAS 70-61-**-P/S 090-1A SCC |

Dimensions in mm

Rear accessories tightening torque (see table page 63)

## DBAS 71 - Cable Connecting Receptacle



| Part Number               | A max | B max | F max | G max | Part Number                  |
|---------------------------|-------|-------|-------|-------|------------------------------|
| DBAS 71-3-**-P/S 090 SCC  | 25.45 | 22.60 | 14.50 | 17.00 | DBAS 71-3-**-P/S 090-1A SCC  |
| DBAS 71-7-**-P/S 090 SCC  | 28.65 | 25.80 | 17.35 | 21.80 | DBAS 71-7-**-P/S 090-1A SCC  |
| DBAS 71-12-**-P/S 090 SCC | 31.05 | 28.20 | 20.80 | 25.00 | DBAS 71-12-**-P/S 090-1A SCC |
| DBAS 71-19-**-P/S 090 SCC | 33.45 | 30.60 | 24.00 | 28.25 | DBAS 71-19-**-P/S 090-1A SCC |
| DBAS 71-27-**-P/S 090 SCC | 35.85 | 33.00 | 28.65 | 30.95 | DBAS 71-27-**-P/S 090-1A SCC |
| DBAS 71-37-**-P/S 090 SCC | 39.75 | 36.90 | 31.95 | 34.15 | DBAS 71-37-**-P/S 090-1A SCC |
| DBAS 71-61-**-P/S 090 SCC | 48.55 | 45.70 | 39.90 | 42.00 | DBAS 71-61-**-P/S 090-1A SCC |

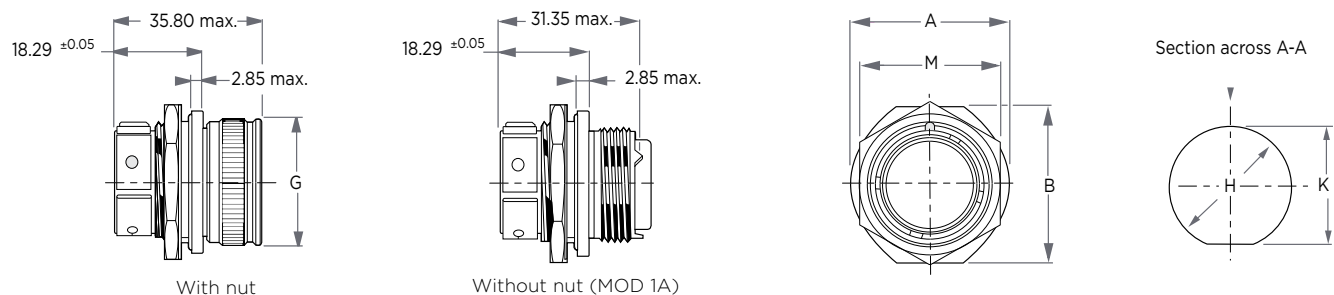
Dimensions in mm

Rear accessories tightening torque (see table page 63)

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0.56 \pm 0.1$  mm.  
Panel sealing gasket to be ordered separately, see page 64. Panel cutout, see page 67.

# DEUTSCH DBAS Series SCC

## DBAS 74 - Jam-Nut Mounting Receptacle



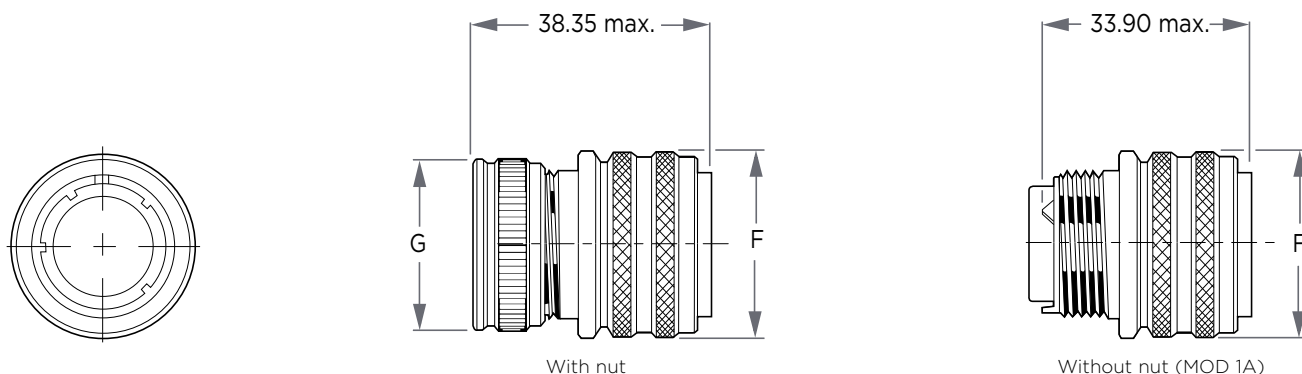
| Part Number               | A max | B max | G max | M max | H max | K max | Max. Nut Panel Tightening Torque | Part Number                  |
|---------------------------|-------|-------|-------|-------|-------|-------|----------------------------------|------------------------------|
| DBAS 74-3-** P/S 090 SCC  | 19.20 | 19.20 | 17.00 | 16.31 | 14.35 | 13.45 | 0.70 daN.m                       | DBAS 74-3-** P/S 090-1A SCC  |
| DBAS 74-7-** P/S 090 SCC  | 22.40 | 22.40 | 21.80 | 21.07 | 17.50 | 16.80 | 1.00 daN.m                       | DBAS 74-7-** P/S 090-1A SCC  |
| DBAS 74-12-** P/S 090 SCC | 27.20 | 27.20 | 25.00 | 24.24 | 20.65 | 19.95 | 1.30 daN.m                       | DBAS 74-12-** P/S 090-1A SCC |
| DBAS 74-19-** P/S 090 SCC | 30.40 | 29.60 | 28.25 | 27.40 | 25.45 | 24.65 | 1.50 daN.m                       | DBAS 74-19-** P/S 090-1A SCC |
| DBAS 74-27-** P/S 090 SCC | 33.60 | 33.50 | 30.95 | 32.18 | 28.60 | 27.85 | 1.8 0 daN.m                      | DBAS 74-27-** P/S 090-1A SCC |
| DBAS 74-37-** P/S 090 SCC | 38.30 | 36.30 | 34.15 | 35.36 | 31.80 | 31.00 | 2.20 daN.m                       | DBAS 74-37-** P/S 090-1A SCC |
| DBAS 74-61-** P/S 090 SCC | 47.80 | 47.20 | 42.00 | 43.02 | 38.10 | 37.30 | 2.90 daN.m                       | DBAS 74-61-** P/S 090-1A SCC |

Dimensions in mm

Rear accessories tightening torque (see table page 63)

Females inserts protrude from the FRONT face of all receptacles types 70, 71 and 74 by  $0.56 \pm 0.1$  mm.  
Panel sealing gasket to be ordered separately, see page 64. Panel cutout, see page 67.

## DBAS 76 - Feel-Control Locking Plug



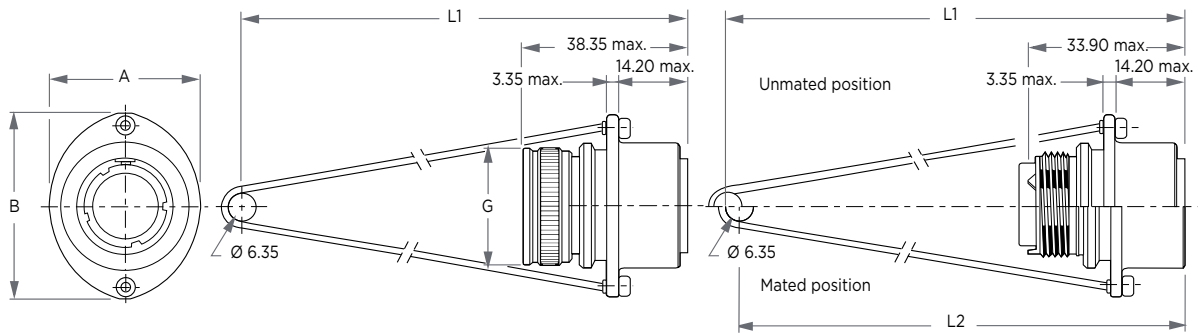
| Part Number               | F max | G max | Part Number                  |
|---------------------------|-------|-------|------------------------------|
| DBAS 76-3-** P/S 090 SCC  | 19.20 | 19.20 | DBAS 76-3-** P/S 090-1A SCC  |
| DBAS 76-7-** P/S 090 SCC  | 22.40 | 22.40 | DBAS 76-7-** P/S 090-1A SCC  |
| DBAS 76-12-** P/S 090 SCC | 27.20 | 27.20 | DBAS 76-12-** P/S 090-1A SCC |
| DBAS 76-19-** P/S 090 SCC | 30.40 | 29.60 | DBAS 76-19-** P/S 090-1A SCC |
| DBAS 76-27-** P/S 090 SCC | 33.60 | 33.50 | DBAS 76-27-** P/S 090-1A SCC |
| DBAS 76-37-** P/S 090 SCC | 38.30 | 36.30 | DBAS 76-37-** P/S 090-1A SCC |
| DBAS 76-61-** P/S 090 SCC | 47.80 | 47.20 | DBAS 76-61-** P/S 090-1A SCC |

Dimensions in mm

Rear accessories tightening torque (see table page 63)

# DEUTSCH DBAS Series SCC

## DBAS 78 - Plug with Heavy Duty Lanyard



| Part Number               | A max | B max | G max | L1 +2.1 | L2 +2.1 | Part Number                  |
|---------------------------|-------|-------|-------|---------|---------|------------------------------|
| DBAS 78-3-** P/S 090 SCC  | 23.30 | 31.85 | 17.00 | 120.35  | 117.65  | DBAS 78-3-** P/S 090-1A SCC  |
| DBAS 78-7-** P/S 090 SCC  | 26.80 | 35.65 | 21.80 | 120.10  | 117.40  | DBAS 78-7-** P/S 090-1A SCC  |
| DBAS 78-12-** P/S 090 SCC | 29.60 | 38.70 | 25.00 | 119.95  | 117.25  | DBAS 78-12-** P/S 090-1A SCC |
| DBAS 78-19-** P/S 090 SCC | 33.55 | 42.50 | 28.25 | 119.70  | 117.00  | DBAS 78-19-** P/S 090-1A SCC |
| DBAS 78-27-** P/S 090 SCC | 37.20 | 46.20 | 30.95 | 119.40  | 116.70  | DBAS 78-27-** P/S 090-1A SCC |
| DBAS 78-37-** P/S 090 SCC | 40.70 | 48.45 | 34.15 | 119.20  | 116.50  | DBAS 78-37-** P/S 090-1A SCC |
| DBAS 78-61-** P/S 090 SCC | 47.85 | 56.60 | 42.00 | 118.35  | 115.64  | DBAS 78-61-** P/S 090-1A SCC |

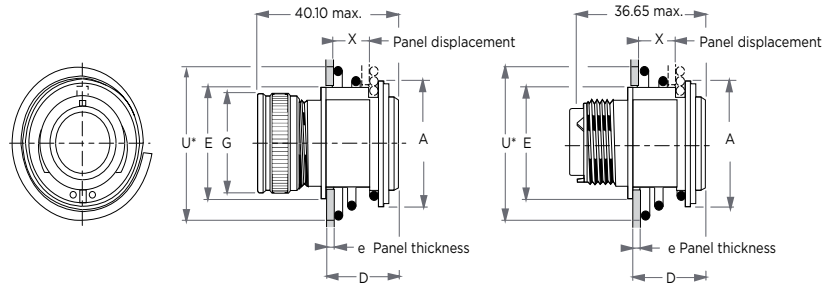
Dimensions in mm

Rear accessories tightening torque (see table page 63)

\*Only for the spring

Traction angle  $\pm 15^\circ$  in all axis. For specific lengths of lanyards, consult TE.

## DBAS 79 - Rack and Panel



| Part Number               | A max | D max | E max | G max | U* max | X max     | Compression Force for X |            | Part Number                  |
|---------------------------|-------|-------|-------|-------|--------|-----------|-------------------------|------------|------------------------------|
|                           |       |       |       |       |        |           | Max                     | Min        |                              |
| DBAS 79-3-** P/S 090 SCC  | 22.45 | 21.05 | 19.30 | 17.00 | 31.00* | 13.95 - e | 1.60 daN.m              | 0.30 daN.m | DBAS 79-3-** P/S 090-1A SCC  |
| DBAS 79-7-** P/S 090 SCC  | 29.60 | 20.85 | 24.40 | 21.80 | 34.30* | 12.30 - e | 3.3 OdaN.m              | 0.60 daN.m | DBAS 79-7-** P/S 090-1A SCC  |
| DBAS 79-12-** P/S 090 SCC | 31.90 | 20.85 | 27.25 | 25.00 | 39.75* | 12.45 - e | 5.00 daN.m              | 1.20 daN.m | DBAS 79-12-** P/S 090-1A SCC |
| DBAS 79-19-** P/S 090 SCC | 35.15 | 20.85 | 32.00 | 28.25 | 43.40* | 12.15 - e | 8.70 daN.m              | 1.90 daN.m | DBAS 79-19-** P/S 090-1A SCC |
| DBAS 79-27-** P/S 090 SCC | 38.70 | 20.60 | 35.75 | 30.95 | 47.15* | 11.80 - e | 11.80 daN.m             | 2.70 daN.m | DBAS 79-27-** P/S 090-1A SCC |
| DBAS 79-37-** P/S 090 SCC | 45.95 | 20.60 | 40.60 | 34.15 | 53.50* | 11.80 - e | 15.60 daN.m             | 3.70 daN.m | DBAS 79-37-** P/S 090-1A SCC |
| DBAS 79-61-** P/S 090 SCC | 54.40 | 20.30 | 50.40 | 42.00 | 72.00* | 9.35 - e  | 26.20 daN.m             | 6.10 daN.m | DBAS 79-61-** P/S 090-1A SCC |

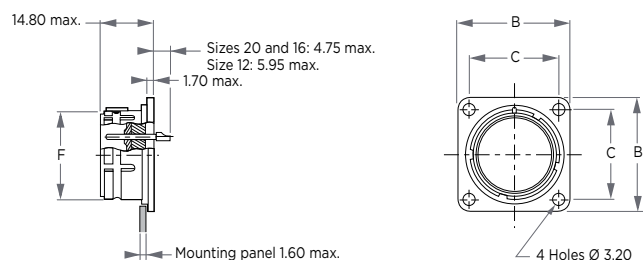
Dimensions in mm

\*Only for the spring

To be used with the spring compressed to the maximum panel displacement X depends on thickness (e) chosen by the user.  
Panel cutout, see page 67. Rack system mounting, see NU 025-011

# DEUTSCH DBAS Series SCC

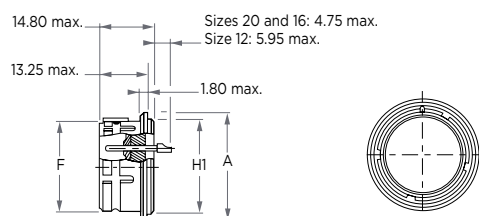
## DBA / DBC 70H - Hermetic Square Flange Receptacle



| Part Number          | B max | C $\pm 0,1$ | F max | Part Number          |
|----------------------|-------|-------------|-------|----------------------|
| DBA 70H 3-** P* SCC  | 22.32 | 15.88       | 11.11 | DBC 70H 3-** P* SCC  |
| DBA 70H 7-** P* SCC  | 25.50 | 18.26       | 14.54 | DBC 70H 7-** P* SCC  |
| DBA 70H 12-** P* SCC | 27.86 | 20.65       | 17.97 | DBC 70H 12-** P* SCC |
| DBA 70H 19-** P* SCC | 30.25 | 23.02       | 21.50 | DBC 70H 19-** P* SCC |
| DBA 70H 27-** P* SCC | 32.64 | 24.59       | 25.44 | DBC 70H 27-** P* SCC |
| DBA 70H 37-** P* SCC | 36.60 | 30.15       | 28.51 | DBC 70H 37-** P* SCC |
| DBA 70H 61-** P* SCC | 45.34 | 36.47       | 35.80 | DBC 70H 61-** P* SCC |

Dimensions in mm

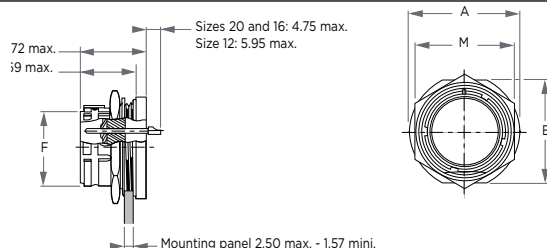
## DBA / DBC 73H - Hermetic Solder Flange Receptacle



| Part Number          | B max | C $\pm 0,1$ | F max | Part Number          |
|----------------------|-------|-------------|-------|----------------------|
| DBA 73H 3-** P* SCC  | 15.09 | 11.11       | 12.62 | DBC 73H 3-** P* SCC  |
| DBA 73H 7-** P* SCC  | 19.10 | 14.54       | 15.80 | DBC 73H 7-** P* SCC  |
| DBA 73H 12-** P* SCC | 22.28 | 17.97       | 18.97 | DBC 73H 12-** P* SCC |
| DBA 73H 19-** P* SCC | 25.45 | 21.50       | 22.96 | DBC 73H 19-** P* SCC |
| DBA 73H 27-** P* SCC | 30.07 | 25.44       | 26.92 | DBC 73H 27-** P* SCC |
| DBA 73H 37-** P* SCC | 32.59 | 28.51       | 29.28 | DBC 73H 37-** P* SCC |
| DBA 73H 61-** P* SCC | 39.72 | 35.80       | 36.44 | DBC 73H 61-** P* SCC |

Dimensions in mm

## DBA / DBC 74H - Hermetic Jam-Nut Mounting Receptacle



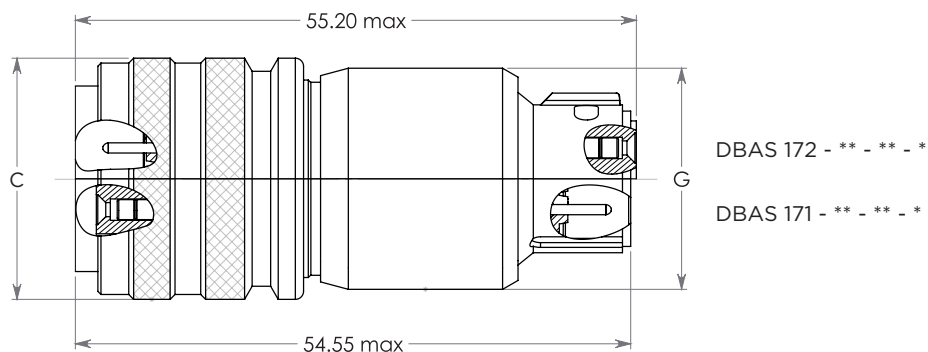
Panel sealing gasket to be ordered separately, see page 64.  
O'ring to be ordered separately, see page 64.  
Panel cutout, see page 67.

Dimensions in mm

| Part Number          | A max | B max | F max | M max | Max. Nut Panel Tightening Torque | Part Number          |
|----------------------|-------|-------|-------|-------|----------------------------------|----------------------|
| DBA 74H 3-** P* SCC  | 19.53 | 18.58 | 11.11 | 15.97 | 0.70 daN.m                       | DBC 74H 3-** P* SCC  |
| DBA 74H 7-** P* SCC  | 22.70 | 21.76 | 14.54 | 20.72 | 1.00 daN.m                       | DBC 74H 7-** P* SCC  |
| DBA 74H 12-** P* SCC | 25.77 | 24.93 | 17.97 | 23.90 | 1.30 daN.m                       | DBC 74H 12-** P* SCC |
| DBA 74H 19-** P* SCC | 30.65 | 29.72 | 21.50 | 27.07 | 1.50 daN.m                       | DBC 74H 19-** P* SCC |
| DBA 74H 27-** P* SCC | 33.83 | 32.88 | 25.44 | 31.34 | 1.80 daN.m                       | DBC 74H 27-** P* SCC |
| DBA 74H 37-** P* SCC | 36.98 | 36.16 | 28.51 | 35.10 | 2.20 daN.m                       | DBC 74H 37-** P* SCC |
| DBA 74H 61-** P* SCC | 48.23 | 47.29 | 35.80 | 42.97 | 2.90 daN.m                       | DBC 74H 61-** P* SCC |

# DEUTSCH DBAS Series SCC

## DBAS 171 / 172 - Savers



| Part Number      | Contact Type |                 | C<br>max | G<br>max |
|------------------|--------------|-----------------|----------|----------|
|                  | Plug Side    | Receptacle Side |          |          |
| DBAS 171-3-**-*  | Socket       | Pin             | 20.40    | 18.30    |
| DBAS 171-7-**-*  | Socket       | Pin             | 23.70    | 21.90    |
| DBAS 171-12-**-* | Socket       | Pin             | 26.90    | 24.80    |
| DBAS 171-19-**-* | Socket       | Pin             | 31.50    | 28.40    |
| DBAS 171-27-**-* | Socket       | Pin             | 36.10    | 31.90    |
| DBAS 171-37-**-* | Socket       | Pin             | 39.30    | 35.10    |
| DBAS 171-61-**-* | Socket       | Pin             | 47.30    | 43.30    |
| DBAS 172-3-**-*  | Pin          | Socket          | 20.40    | 18.30    |
| DBAS 172-7-**-*  | Pin          | Socket          | 23.70    | 21.90    |
| DBAS 172-12-**-* | Pin          | Socket          | 26.90    | 24.80    |
| DBAS 172-19-**-* | Pin          | Socket          | 31.50    | 28.40    |
| DBAS 172-27-**-* | Pin          | Socket          | 36.10    | 31.90    |
| DBA S172-37-**-* | Pin          | Socket          | 39.30    | 35.10    |
| DBAS 172-61-**-* | Pin          | Socket          | 47.30    | 43.30    |

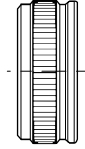
Dimensions in mm

| DBAS                                                               |  | 171 | 3 | X | N** | SCC |
|--------------------------------------------------------------------|--|-----|---|---|-----|-----|
| Connector type                                                     |  |     |   |   |     |     |
| Shell type                                                         |  |     |   |   |     |     |
| 171 Pin contacts on receptacle side / Socket contacts on plug side |  |     |   |   |     |     |
| 172 Socket contacts on receptacle side / Pin contacts on plug side |  |     |   |   |     |     |
| Shell Size                                                         |  |     |   |   |     |     |
| 3-7-12-19-27-37-61                                                 |  |     |   |   |     |     |
| Arrangements                                                       |  |     |   |   |     |     |
| (See pages 52-53)                                                  |  |     |   |   |     |     |
| Insert Clocking Position                                           |  |     |   |   |     |     |
| N Normal                                                           |  |     |   |   |     |     |
| W-X-Y-B-C Others (See page page 50)                                |  |     |   |   |     |     |
| ESA Space Grade                                                    |  |     |   |   |     |     |

# DEUTSCH DBAS Series SCC

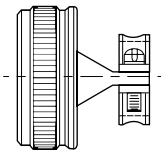
## Accessories

### Nut



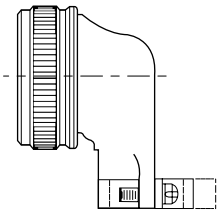
| Size | Part Number      |     |
|------|------------------|-----|
| 3    | 006-0909-03 A499 | SCC |
| 7    | 006-0909-12 A499 | SCC |
| 12   | 006-0909-14 A499 | SCC |
| 19   | 006-0909-16 A499 | SCC |
| 27   | 006-0909-18 A499 | SCC |
| 37   | 006-0909-20 A499 | SCC |
| 61   | 006-0909-61 A499 | SCC |

### Straight cable clamp



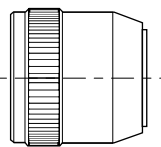
| Size | Part Number      |     |
|------|------------------|-----|
| 3    | 006-0910-03 A499 | SCC |
| 7    | 006-0910-12 A499 | SCC |
| 12   | 006-0910-14 A499 | SCC |
| 19   | 006-0910-16 A499 | SCC |
| 27   | 006-0910-18 A499 | SCC |
| 37   | 006-0910-20 A499 | SCC |
| 61   | 006-0910-61 A499 | SCC |

### Elbowed cable clamp



| Size | Part Number      |     |
|------|------------------|-----|
| 3    | 006-0908-03 A499 | SCC |
| 7    | 006-0908-12 A499 | SCC |
| 12   | 006-0908-14 A499 | SCC |
| 19   | 006-0908-16 A499 | SCC |
| 27   | 006-0908-18 A499 | SCC |
| 37   | 006-0908-20 A499 | SCC |
| 61   | 006-0908-61 A499 | SCC |

### Potting cup

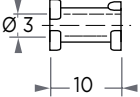
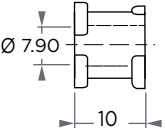
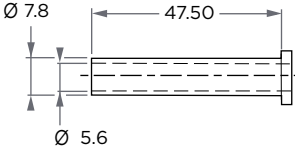
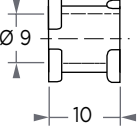
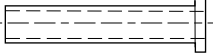
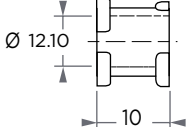
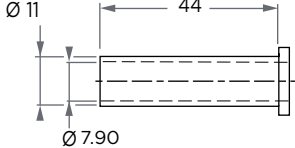
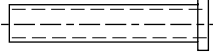
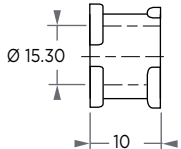
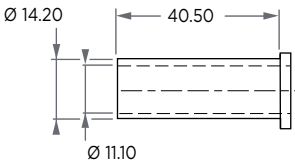
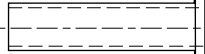
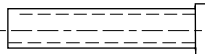
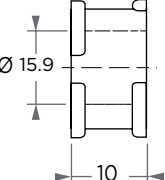
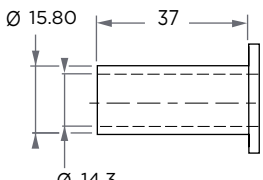
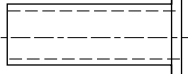
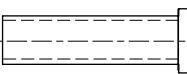
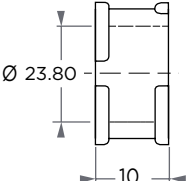
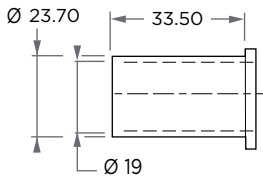
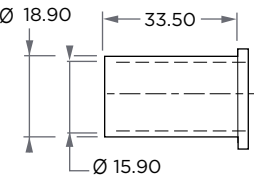
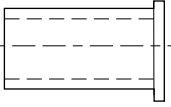


| Size | Part Number      |     |
|------|------------------|-----|
| 3    | 006-0701-03 A499 | SCC |
| 7    | 006-0701-12 A499 | SCC |
| 12   | 006-0701-14 A499 | SCC |
| 19   | 006-0701-16 A499 | SCC |
| 27   | 006-0701-18 A499 | SCC |
| 37   | 006-0701-20 A499 | SCC |
| 61   | 006-0701-61 A499 | SCC |

| Size | Accessories Tightening Torques ( $\pm 10\%$ ) |
|------|-----------------------------------------------|
| 3    | 0.36 daN.m                                    |
| 7    | 0.5 daN.m                                     |
| 12   | 0.6 daN.m                                     |
| 19   | 0.65 daN.m                                    |
| 27   | 0.7 daN.m                                     |
| 37   | 0.75 daN.m                                    |
| 61   | 0.95 daN.m                                    |

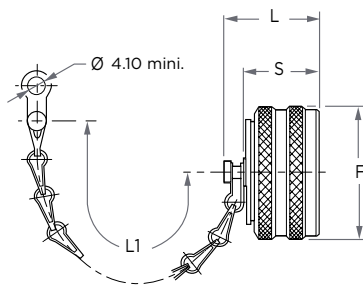
# DEUTSCH DBAS Series SCC

## Cable Clamp Sleeves

| Size      | Main Bushings                                                                                          | Middle Bushings                                                                                        |                                                                                                         |                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>03</b> | <br>006-0005-08 SCC   |                                                                                                        |                                                                                                         |                                                                                                          |
| <b>07</b> | <br>006-0005-12 SCC   | <br>006-0006-12 SCC   |                                                                                                         |                                                                                                          |
| <b>12</b> | <br>006-0005-14 SCC   | <br>006-0005-14 SCC   |                                                                                                         |                                                                                                          |
| <b>19</b> | <br>006-0005-16 SCC  | <br>006-0006-14 SCC  | <br>006-0006-12 SCC   |                                                                                                          |
| <b>27</b> | <br>006-0005-18 SCC | <br>006-0006-18 SCC | <br>006-0006-14 SCC | <br>006-0006-12 SCC |
| <b>37</b> | <br>006-0005-20 SCC | <br>006-0005-20 SCC | <br>006-0006-18 SCC | <br>006-0006-14 SCC |
| <b>61</b> | <br>006-0005-61 SCC | <br>006-0006-24 SCC | <br>006-0006-22 SCC | <br>006-0006-20 SCC |

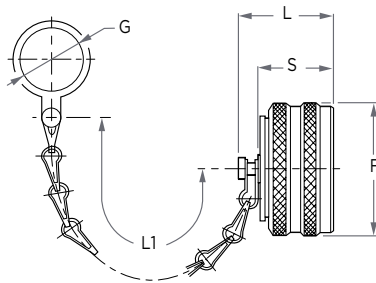
## Protective Caps for Ground Applications

### TYPE 70



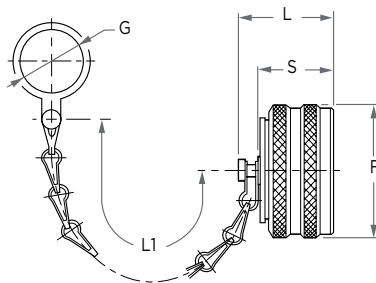
| Part Number  | F max | L max | L1 max | S max |
|--------------|-------|-------|--------|-------|
| DBAS C-70-3  | 20.40 | 20.45 | 79.00  | 16.95 |
| DBAS C-70-7  | 23.70 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-12 | 26.90 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-19 | 31.50 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-27 | 36.10 | 20.45 | 95.00  | 16.95 |
| DBAS C-70-37 | 39.30 | 20.45 | 111.00 | 16.95 |
| DBAS C-70-61 | 47.30 | 20.45 | 111.00 | 16.95 |

### TYPE 71



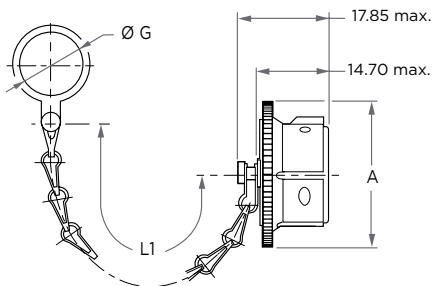
| Part Number  | F max | G mini | L max | L1 max | S max |
|--------------|-------|--------|-------|--------|-------|
| DBAS C-71-3  | 20.40 | 14.60  | 20.00 | 79.00  | 16.85 |
| DBAS C-71-7  | 23.70 | 19.30  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-12 | 26.90 | 22.50  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-19 | 31.50 | 25.50  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-27 | 36.10 | 27.35  | 20.00 | 95.00  | 16.85 |
| DBAS C-71-37 | 39.30 | 30.40  | 20.00 | 111.00 | 16.85 |
| DBAS C-71-61 | 47.30 | 38.40  | 20.20 | 111.00 | 17.05 |

### TYPE 74

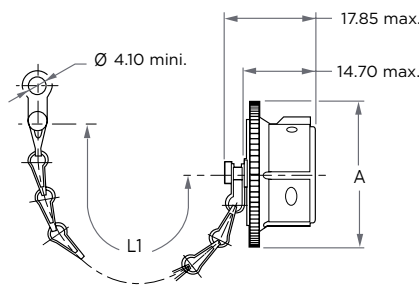


| Part Number  | F max | G mini | L max | L1 max | S max |
|--------------|-------|--------|-------|--------|-------|
| DBAS C 74-3  | 20.40 | 14.60  | 20.45 | 79.00  | 16.95 |
| DBAS C 74-7  | 23.70 | 17.70  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-12 | 26.90 | 20.90  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-19 | 31.50 | 25.70  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-27 | 36.10 | 28.90  | 20.45 | 95.00  | 16.95 |
| DBAS C 74-37 | 39.30 | 32.00  | 20.45 | 111.00 | 16.95 |
| DBAS C 74-61 | 47.30 | 38.40  | 20.45 | 111.00 | 16.95 |

### TYPE 76 -\*\*



### TYPE 76-70\*\*



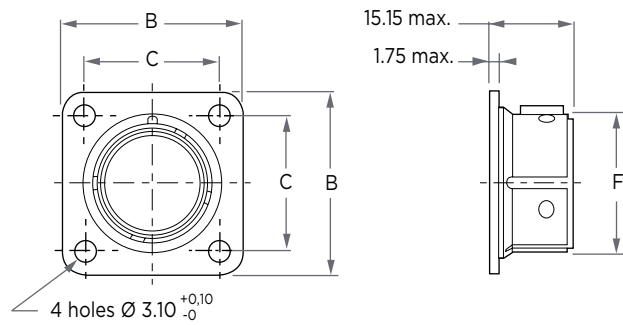
| Part Number                     | A max | G mini | L1 max |
|---------------------------------|-------|--------|--------|
| DBAS C-76-3<br>DBAS C 76-70-3   | 18.50 | 14.60  | 79.00  |
| DBAS C-76-7<br>DBAS C 76-70-7   | 22.80 | 18.85  | 95.00  |
| DBAS C-76-12<br>DBAS C 76-70-12 | 27.20 | 22.10  | 95.00  |
| DBAS C-76-19<br>DBAS C 76-70-19 | 30.60 | 25.50  | 95.00  |
| DBAS C-76-27<br>DBAS C 76-70-27 | 34.55 | 27.35  | 95.00  |
| DBAS C-76-37<br>DBAS C 76-70-37 | 37.85 | 30.40  | 111.00 |
| DBAS C-76-61<br>DBAS C 76-70-61 | 46.45 | 38.40  | 111.00 |

Note: Mod. A 134: Without chain.  
A 190: Nylon wire.

# DEUTSCH DBAS Series SCC

## Dummy Receptacles for Ground Applications

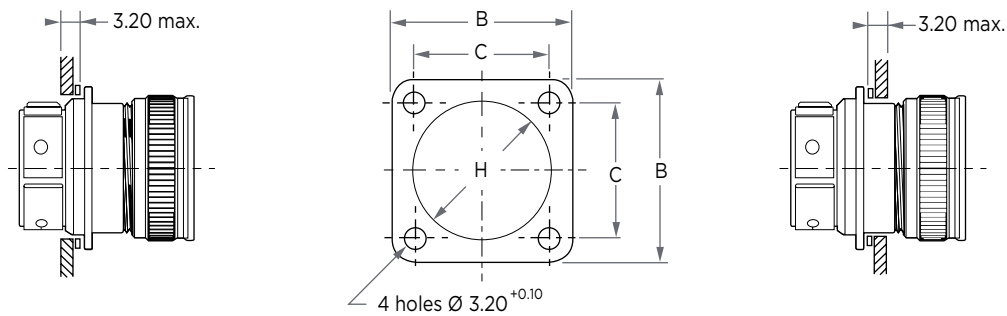
### DUMMY RECEPTACLE



| Size | Part Number   | B max | C ±0.1 | F max |
|------|---------------|-------|--------|-------|
| 3    | DBAS 70 PR 3  | 22.60 | 15.90  | 11.25 |
| 7    | DBAS 70 PR 7  | 25.80 | 18.26  | 14.65 |
| 12   | DBAS 70 PR 12 | 28.20 | 20.62  | 18.05 |
| 19   | DBAS 70 PR 19 | 30.60 | 23.02  | 21.60 |
| 27   | DBAS 70 PR 27 | 33.00 | 24.58  | 25.55 |
| 37   | DBAS 70 PR 37 | 36.90 | 30.12  | 28.65 |
| 61   | DBAS 70 PR 61 | 45.70 | 36.48  | 35.95 |

Dimensions in mm  
Only N position

## Panel Sealing Gasket and O'ring for Receptacles



| Front Flange Mounting |             |       | B max | C max | Rear Flange Mounting |             |      |
|-----------------------|-------------|-------|-------|-------|----------------------|-------------|------|
| Size                  | Part Number | H max |       |       | H max                | Part Number | Size |
| 3                     | 025-0001-03 | 14.80 | 22.50 | 15.90 | 14.80                | 025-0001-03 | 3    |
| 7                     | 025-0001-07 | 17.70 | 25.70 | 18.26 | 18.80                | 025-0002-07 | 7    |
| 12                    | 025-0001-12 | 21.10 | 28.10 | 20.62 | 22.00                | 025-0002-12 | 12   |
| 19                    | 025-0001-19 | 24.30 | 30.50 | 23.02 | 25.10                | 025-0002-19 | 19   |
| 27                    | 025-0001-27 | 29.00 | 32.80 | 24.58 | 27.50                | 025-0002-27 | 27   |
| 37                    | 025-0001-37 | 32.30 | 36.80 | 30.12 | 30.50                | 025-0002-37 | 37   |
| 61                    | 025-0001-61 | 40.20 | 45.50 | 36.48 | 38.50                | 025-0002-61 | 61   |

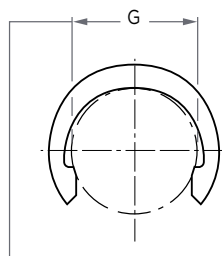
Dimensions in mm

### O'ring

| Size | Part Number |
|------|-------------|
| 3    | 103-0001-15 |
| 7    | 103-0001-17 |
| 12   | 103-0001-19 |
| 19   | 103-0001-22 |
| 27   | 103-0001-24 |
| 37   | 103-0001-26 |
| 61   | 103-0001-29 |

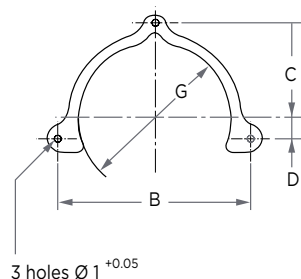
## Leading Clips for Plugs and Protective Caps

### For protective caps DBAS C 70-71-74



Nominal dimension Ø

| Size | Part Number |
|------|-------------|
| 3    | 100-0065-03 |
| 7    | 100-0065-07 |
| 12   | 100-0065-12 |
| 19   | 100-0065-19 |
| 27   | 100-0009-27 |
| 37   | 100-0009-37 |
| 61   | 100-0065-61 |



3 holes Ø 1 +0.05

### For plugs DBAS 76-78

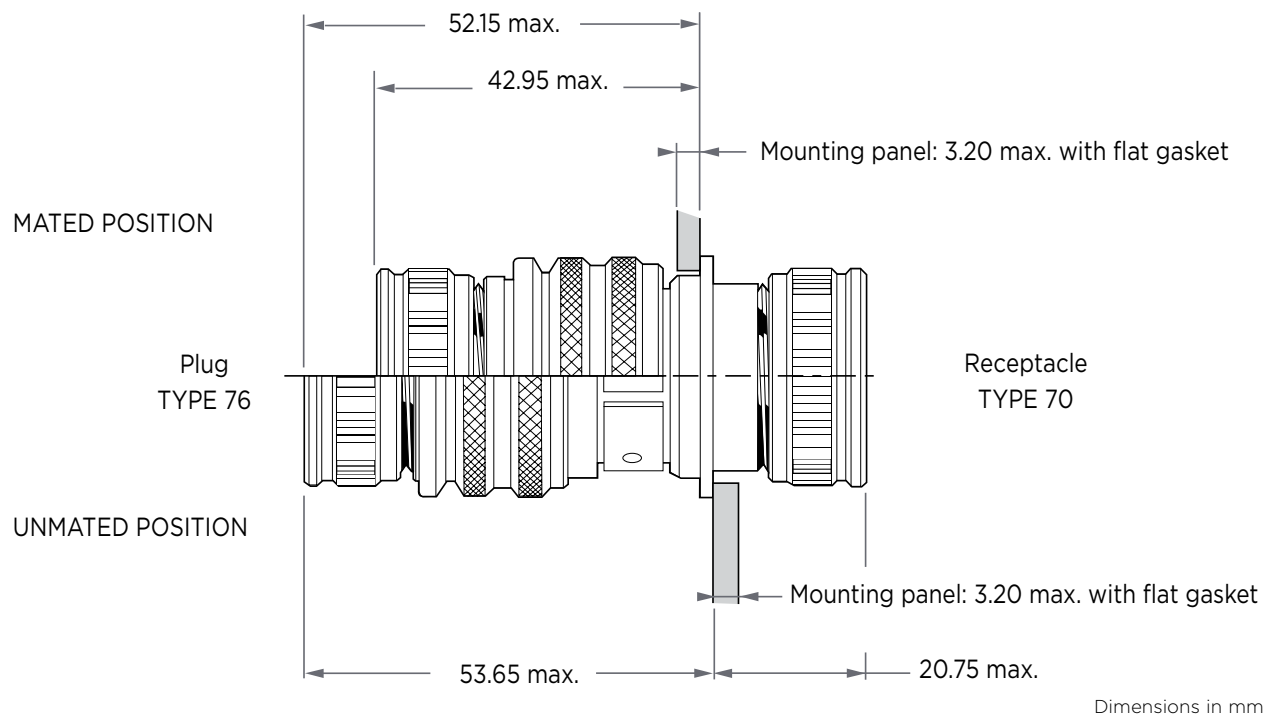
| Size | Part Number | B ±0.1 | C ±0.1 | D ±0.1 | G     |
|------|-------------|--------|--------|--------|-------|
| 3    | 025-0792-03 | 21.20  | 10.80  | 2.00   | 15.00 |
| 7    | 025-0792-07 | 24.00  | 12.30  | 2.40   | 17.50 |
| 12   | 025-0792-12 | 27.60  | 14.00  | 2.70   | 21.30 |
| 19   | 025-0792-19 | 32.00  | 16.20  | 3.25   | 25.00 |
| 27   | 025-0792-27 | 36.60  | 18.60  | 3.75   | 28.40 |
| 37   | 025-0792-37 | 39.60  | 20.20  | 4.00   | 31.10 |
| 61   | 025-0792-61 | 47.00  | 24.00  | 5.20   | 40.20 |

Dimensions in mm

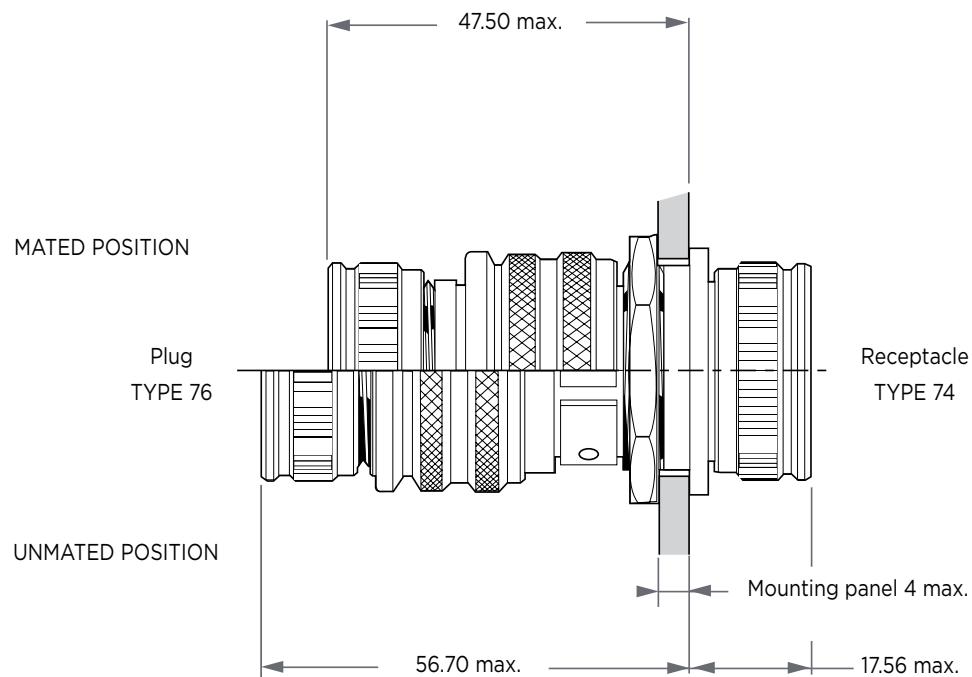
# DEUTSCH DBAS Series SCC

## Mating - Unmating dimensions

### Mating DBAS 76 with 70



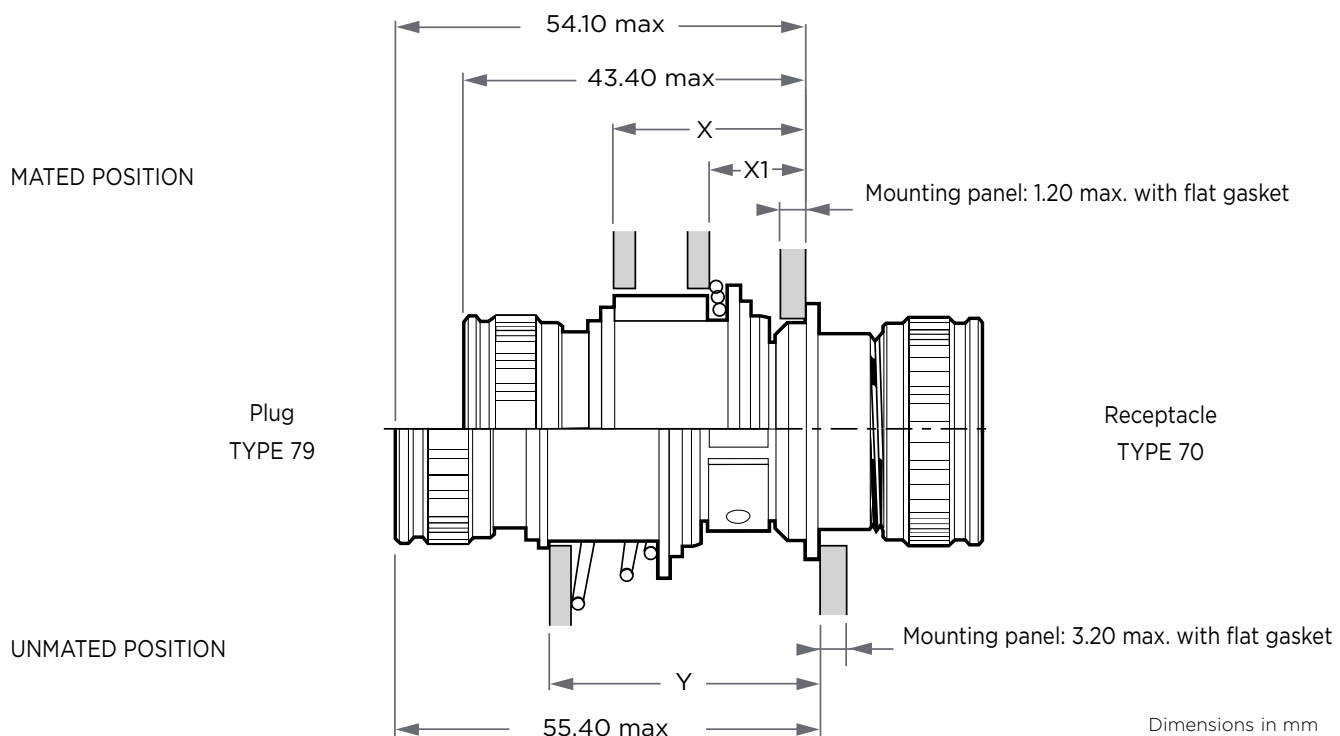
### Mating DBAS 76 with 74



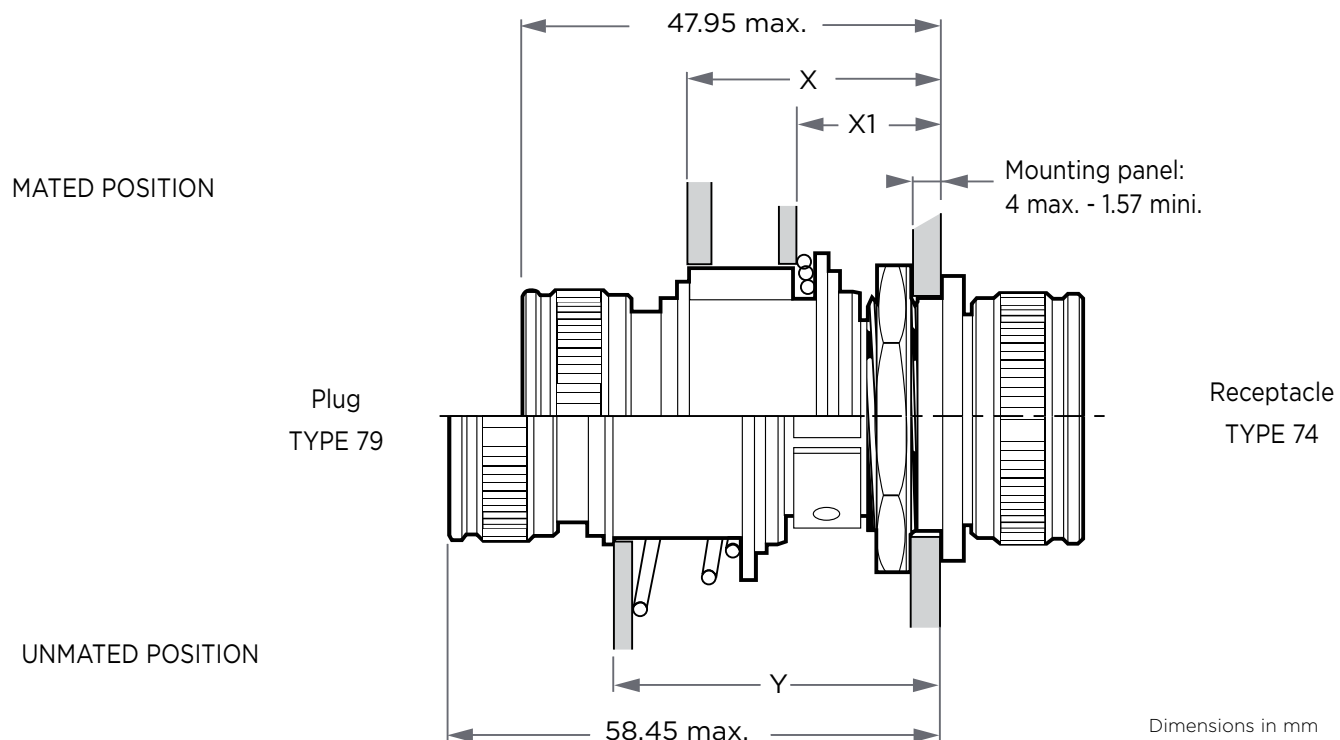
# DEUTSCH DBAS Series SCC

## Mating - Unmating Dimensions

### Mating DBAS 79 with 70



### Mating DBAS 79 with 74

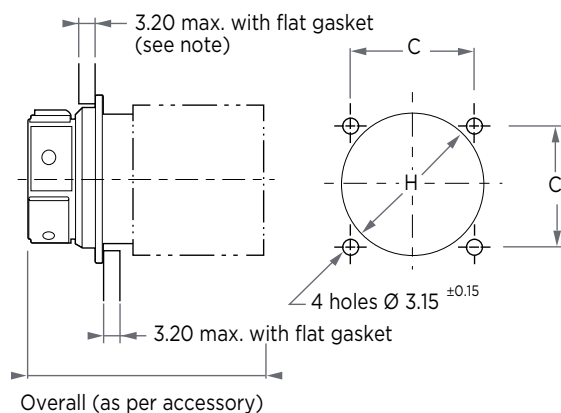


# DEUTSCH DBAS Series SCC

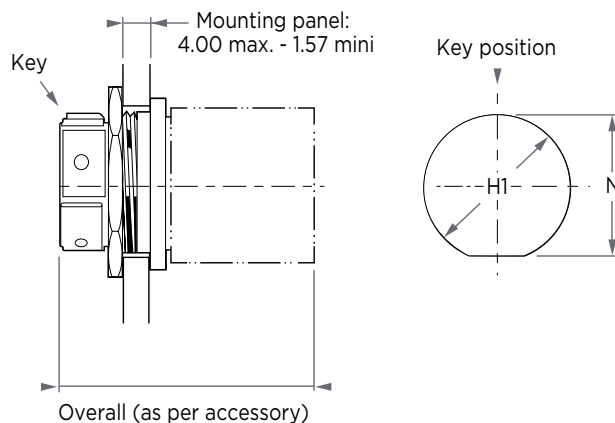
## Panel Cutout

### For Sealed and Hermetic Receptacles

#### Square flange



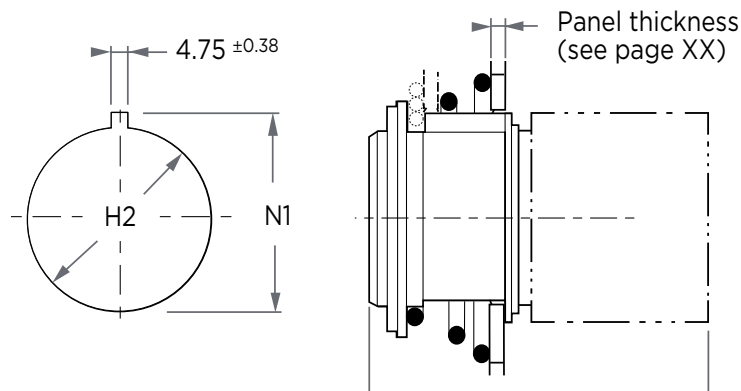
#### Jam-nut mounted



Note: For utilisation on rack connectors, see page 58.

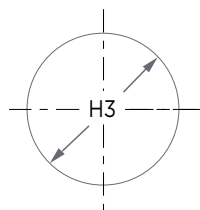
### For Sealed Receptacle

#### Rack and panel connector



### For Hermetic Receptacle

#### Solder flange



| Size | C<br>± 0.1 | H<br>+ 0<br>- 0.2 | H1<br>+ 0.2<br>- 0 | H2<br>± 0.38 | H3<br>max. | N<br>- 0 | N1<br>+0.1<br>± 0.38 |
|------|------------|-------------------|--------------------|--------------|------------|----------|----------------------|
| 3    | 15.90      | 14.80             | 14.40              | 17.04        | 14.40      | 13.56    | 21.41                |
| 7    | 18.26      | 19.40             | 17.55              | 20.62        | 17.55      | 16.79    | 24.99                |
| 12   | 20.62      | 22.60             | 20.73              | 23.80        | 20.73      | 19.91    | 27.96                |
| 19   | 23.02      | 25.75             | 25.48              | 26.97        | 25.48      | 24.61    | 31.34                |
| 27   | 24.58      | 28.95             | 28.65              | 30.56        | 28.65      | 27.81    | 34.92                |
| 37   | 30.12      | 32.35             | 31.83              | 34.92        | 31.83      | 30.99    | 38.89                |
| 61   | 36.48      | 40.20             | 38.20              | 42.85        | 38.20      | 37.26    | 47.22                |

Dimensions in mm

# DEUTSCH DBAS Series SCC

## Mating - Unmating Forces

| Shell Size | Maximum Mating - Unmating Force |                | Minimum Unmating Force |                |
|------------|---------------------------------|----------------|------------------------|----------------|
|            | Push-Pull                       | Rack and Panel | Push-Pull              | Rack and Panel |
| 3          | 6.8                             | 8.01           | 0.56                   | 0.06           |
| 7          | 8.9                             | 8.90           | 0.66                   | 0.15           |
| 12         | 15.1                            | 16.90          | 0.89                   | 0.25           |
| 19         | 16.9                            | 20.46          | 1.33                   | 0.40           |
| 27         | 17.8                            | 20.46          | 1.78                   | 0.56           |
| 37         | 19.6                            | 22.24          | 2.69                   | 0.77           |
| 61         | 21.8                            | 30.25          | 3.11                   | 0.94           |

DBAS 78GR, Minimum unmating force for sizes 03 and 07: 3,5 daN. for sizes 12 to 61: daN. (More than standard specification SAE/AS 81703).

## Mass

Connectors weight in gram  $\pm 5$  gr, without nut and contacts.

| Size | Type | Shells Types |       |       |       |       |
|------|------|--------------|-------|-------|-------|-------|
|      |      | 70/71        | 74    | 76    | 78    | 79    |
| 3    | P    | 7.10         | 10.60 | 16.70 | 23.20 | 12.05 |
|      | S    | 8.20         | 11.11 | 17.70 | 24.20 | 13.50 |
| 7    | P    | 12.05        | 13.15 | 21.88 | 28.88 | 19.68 |
|      | S    | 12.85        | 13.95 | 22.88 | 29.88 | 20.68 |
| 12   | P    | 15.95        | 17.91 | 28.80 | 35.90 | 26.30 |
|      | S    | 17.10        | 19.00 | 29.90 | 36.90 | 27.30 |
| 19   | P    | 19.80        | 22.10 | 38.05 | 45.05 | 31.55 |
|      | S    | 21.95        | 24.26 | 40.05 | 47.05 | 33.55 |
| 27   | P    | 24.30        | 27.66 | 46.90 | 53.90 | 36.40 |
|      | S    | 27.25        | 30.60 | 49.90 | 56.90 | 39.40 |
| 37   | P    | 27.50        | 33.15 | 53.92 | 60.92 | 48.22 |
|      | S    | 33.90        | 37.00 | 57.92 | 64.92 | 52.22 |
| 61   | P    | 45.95        | 53.52 | 76.38 | 82.38 | 72.58 |
|      | S    | 52.65        | 60.22 | 82.38 | 88.38 | 78.58 |

**P** male contact

**S** female contact

# DEUTSCH DBAS Series SCC

## Contacts

### Extract from ESA/SCC Details Specification No. 3401/009

| Variant | Type   | Mating End  | Crimp Barrel | Rated Current | Accepted Wire | Max Weight | Engagement & Separation |            | Test Pin Dia (mm) |                    | Contact Capability  |         | Contact Retent. Force | Contact Insert/ Withdr Force | Probe Damage |                 |              | Oversize Pin Excl. |                |          |                |                   |      |      |      |
|---------|--------|-------------|--------------|---------------|---------------|------------|-------------------------|------------|-------------------|--------------------|---------------------|---------|-----------------------|------------------------------|--------------|-----------------|--------------|--------------------|----------------|----------|----------------|-------------------|------|------|------|
|         |        | Size Colour | Size Colour  |               |               |            | (A)                     | (AWG)      | (g)               | Engag. Max (N) (1) | Separ. Min. (N) (1) | Min.    |                       |                              | Max.         | Weight          |              | Moment (N.cm)      | Probe Dia (mm) |          | Force Max. (N) | Test Pin Dia (mm) |      |      |      |
|         |        |             |              |               |               |            |                         |            |                   |                    |                     |         |                       |                              |              | Pick-up (g) (2) | Drop (g) (3) |                    | Max. (N)       | Max. (N) |                | Min.              | Min. | Min. | Min. |
|         |        |             |              |               |               |            |                         |            |                   |                    |                     |         |                       |                              |              |                 |              |                    |                |          |                |                   |      |      |      |
| 01      | male   | 20 red      | 20 red       | 7.5           | 20 24         | 0.32       | —                       | —          | —                 | —                  | —                   | —       | 70                    | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 02      | female | 20 red      | 20 red       | 7.5           | 20 24         | 0.32       | 3.33 0.28               | 2.22 0.20  | 1.039 0.990       | 1.042 0.993        | — 28.35             | 226.8 — | 70                    | 44                           | 5.75         | 0.99            | 1.01         | 3.4                | 1.17           | 1.18     |                |                   |      |      |      |
| 03      | male   | 20 red      | 18 violet    | 7.5           | 18 22         | 0.32       | —                       | —          | —                 | —                  | —                   | —       | 70                    | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 04      | female | 20 red      | 18 violet    | 7.5           | 22 18         | 0.32       | 3.33 0.28               | 2.22 0.20  | 1.039 0.990       | 1.042 0.993        | — 28.35             | 226.8 — | 70                    | 44                           | 5.75         | 0.99            | 1.01         | 3.4                | 1.17           | 1.18     |                |                   |      |      |      |
| 05      | male   | 20 red      | 26 white     | 2.5           | 26 28         | 0.32       | —                       | —          | —                 | —                  | —                   | —       | 70                    | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 06      | female | 20 red      | 26 white     | 2.5           | 26 28         | 0.32       | 3.33 0.28               | 2.22 0.20  | 1.039 0.990       | 1.042 0.993        | — 28.35             | 226.8 — | 70                    | 44                           | 5.75         | 0.99            | 1.01         | 3.4                | 1.17           | 1.18     |                |                   |      |      |      |
| 07      | male   | 16 blue     | 16 blue      | 13            | 16 20         | 0.60       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 08      | female | 16 blue     | 16 blue      | 13            | 16 20         | 0.64       | 5.55 0.56               | 3.75 0.56  | 1.610 1.562       | 1.613 1.565        | — 56.70             | 382.6 — | 116                   | 44                           | 23           | 1.56            | 1.58         | 5.6                | 1.73           | 1.74     |                |                   |      |      |      |
| 09      | male   | 16 blue     | 20 red       | 7.5           | 20 24         | 0.60       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 10      | female | 16 blue     | 20 red       | 7.5           | 20 24         | 0.64       | 5.55 0.56               | 3.75 0.56  | 1.610 1.562       | 1.613 1.565        | — 56.70             | 382.6 — | 116                   | 44                           | 23           | 1.56            | 1.58         | 5.6                | 1.73           | 1.74     |                |                   |      |      |      |
| 11      | male   | 12 yellow   | 12 yellow    | 25            | 12 14         | 1.25       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 12      | female | 12 yellow   | 12 yellow    | 25            | 12 14         | 1.25       | 8.40 0.83               | 5.56 0.85  | 2.411 2.362       | 2.413 2.365        | — 84                | 567 —   | 116                   | 44                           | 23           | 2.36            | 2.38         | 8.4                | 2.53           | 2.54     |                |                   |      |      |      |
| 13      | male   | 12 yellow   | 16 blue      | 13            | 16 20         | 1.25       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 14      | female | 12 yellow   | 16 blue      | 13            | 16 20         | 1.25       | 8.40 0.83               | 5.56 0.85  | 2.411 2.362       | 2.413 2.365        | — 84                | 567 —   | 116                   | 44                           | 23           | 2.36            | 2.38         | 8.4                | 2.53           | 2.54     |                |                   |      |      |      |
| 15      | male   | 8 red       | 8 red        | 45            | 8             | 1.25       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 16      | female | 8 red       | 8 red        | 45            | 8             | 1.25       | 45.40 1.40              | 45.40 1.40 | 4.960 4.892       | 4.963 4.905        | — 141.75            | 4536 —  | 116                   | 44                           | 23           | 4.88            | 4.90         | N/A                | N/A            | N/A      |                |                   |      |      |      |
| 17      | male   | 8 red       | 10 red       | 32            | 10            | 1.25       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 18      | female | 8 red       | 10 red       | 32            | 10            | 1.25       | 45.40 1.40              | 45.40 1.40 | 4.960 4.892       | 4.963 4.905        | — 141.75            | 4536 —  | 116                   | 44                           | 23           | 4.88            | 4.90         | N/A                | N/A            | N/A      |                |                   |      |      |      |
| 19      | male   | 8 (4)       | 8 (4)        | 45            | 8             | 1.25       | —                       | —          | —                 | —                  | —                   | —       | 116                   | 44                           | —            | —               | —            | —                  | —              | —        |                |                   |      |      |      |
| 20      | female | 8 (4)       | 8 (4)        | 45            | 8             | 1.25       | 45.40 1.40              | 45.40 1.40 | 4.960 4.892       | 4.963 4.905        | — 141.75            | 4536 —  | 116                   | 44                           | 23           | 4.88            | 4.90         | N/A                | N/A            | N/A      |                |                   |      |      |      |

### Extract from ESA/SCC Details Specification No. 3401/012

| Variant | Type   | Mating End  | Crimp Barrel | Rated Current | Accepted Wire | Max Weight | Engagement & Separation |           | Test Pin Dia (mm) |                    | Contact Capability  |       | Contact Retent. Force | Contact Insert/ Withdr Force | Probe Damage |                 |              | Oversize Pin Excl. |                |       |                |                   |      |
|---------|--------|-------------|--------------|---------------|---------------|------------|-------------------------|-----------|-------------------|--------------------|---------------------|-------|-----------------------|------------------------------|--------------|-----------------|--------------|--------------------|----------------|-------|----------------|-------------------|------|
|         |        | Size Colour | Size Colour  |               |               |            | (A)                     | (AWG)     | (g)               | Engag. Max (N) (1) | Separ. Min. (N) (1) | Min.  |                       |                              | Max.         | Weight          |              | Moment (N.cm)      | Probe Dia (mm) |       | Force Max. (N) | Test Pin Dia (mm) |      |
|         |        |             |              |               |               |            |                         |           |                   |                    |                     |       |                       |                              |              | Pick-up (g) (2) | Drop (g) (3) |                    | Min.           | Min.  |                | Min.              | Min. |
|         |        |             |              |               |               |            |                         |           |                   |                    |                     |       |                       |                              |              |                 |              |                    |                |       |                |                   |      |
| 01      | male   | 22 green    | 22 green     | 5.0           | 22 24         | 0.78       | —                       | —         | —                 | —                  | —                   | —     | 40                    | 18.50                        | —            | —               | —            | —                  | —              |       |                |                   |      |
| 02      | female | 22 green    | 22 green     |               |               | 0.075      | 3.33 —                  | 2.22 0.20 | 0.710 0.713       | 0.747 0.750        | — 14.2              | 230 — | 40                    | 18.50                        | 1.40         | 0710            | 0.713        | 3.33               | 0.837          | 0.841 |                |                   |      |
| 03      | male   | 22 green    | 26 white     | 2.5           | 26 28         | 0.078      | —                       | —         | —                 | —                  | —                   | 40    | 18.50                 | —                            | —            | —               | —            | —                  |                |       |                |                   |      |
| 04      | female | 22 green    | 26 white     |               |               | 0.075      | 3.33 —                  | 2.22 0.20 | 0.710 0.713       | 0.747 0.750        | — 14.2              | 230 — | 40                    | 18.50                        | 1.40         | 0710            | 0.713        | 3.33               | 0.837          | 0.841 |                |                   |      |

# DEUTSCH DBAS Series SCC

**Equivalence Table**

|                                                                   | ESCC Specification | ESCC Component Number | TE Part Number                     |
|-------------------------------------------------------------------|--------------------|-----------------------|------------------------------------|
| Contacts for DBAS sealed receptacles and plugs, size 8 to size 20 | ESCC No. 3401/009  | 340100901B            | 006-0937-20 SCC                    |
|                                                                   |                    | 340100902B            | 006-0912-20 SCC                    |
|                                                                   |                    | 340100903B            | 006-0044-20 SCC                    |
|                                                                   |                    | 340100904B            | 006-0055-20 SCC                    |
|                                                                   |                    | 340100905B            | 006-0972-20 SCC                    |
|                                                                   |                    | 340100906B            | 006-0973-20 SCC                    |
|                                                                   |                    | 340100907B            | 006-0937-16 SCC                    |
|                                                                   |                    | 340100908B            | 006-0912-16 SCC                    |
|                                                                   |                    | 340100909B            | 006-1168-16 SCC                    |
|                                                                   |                    | 340100910B            | 006-1169-16 SCC                    |
|                                                                   |                    | 340100911B            | 006-0937-12 SCC                    |
|                                                                   |                    | 340100912B            | 006-0912-12 SCC                    |
|                                                                   |                    | 340100913B            | 006-1157-12 SCC                    |
|                                                                   |                    | 340100914B            | 006-1159-12 SCC                    |
|                                                                   |                    | 340100915B            | 006-0041-08 SCC                    |
|                                                                   |                    | 340100916B            | 006-0040-08 SCC                    |
|                                                                   |                    | 340100917B            | 005-0257-08 SCC                    |
|                                                                   |                    | 340100918B            | Consult us                         |
|                                                                   |                    | 340100919B            | 005-0893-08 SCC                    |
|                                                                   |                    | 340100920B            | 005-0896-08 SCC                    |
| Contacts for DBAS sealed receptacles and plugs, size 22           | ESCC No. 3401/012  | 340101201B            | 028-0108-22 SCC<br>029-0100-22 SCC |
|                                                                   |                    | 340101202B            | 028-0113-22 SCC<br>029-0101-22 SCC |
|                                                                   |                    | 340101203B            | DF 28-046-22 C SCC                 |
|                                                                   |                    | 340101204B            | DF 28 A 047-22 C SCC               |

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### DEUTSCH DBAS SERIES CONNECTORS

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