

DBAS

71

XX

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XX

X

X

8

XX

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CONNECTOR TYPE

SHELL TYPE

SHELL SIZE

ARRANGEMENTS

CONTACT TYPE

INSERT CLOCKING POSITION

INDEX FOR CONTACTS

KEY ORIENTATION

SPECIAL MODIFICATIONS

71 - Cable connecting Receptacle with Nut

3-7-12-19-27-37-61

P Pin Contact  
S Socket Contact

N - Normal  
W-X-Y-B-C Others

DA, DB, DC, DD, DE, DF, DG

1A Without nut  
031 Black anodised  
059 Straight cable clamp  
081 Elbowed cable clamp  
090 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 High temperature + 260 °C  
A5532 Kerosene-resistant insert + without nut  
\*\*\*\*\* For other modifications, consult TE.

For DBAS 71 - ESA/SCC QPL  
European Space Agency (ESA)/Space Components Coordination Group (SCC)  
Qualified Parts List (QPL)

DBAS

71

XX

-

XX

X

X

XX

090

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SCC

CONNECTOR TYPE

SHELL TYPE

SHELL SIZE

ARRANGEMENTS

CONTACT TYPE

INSERT CLOCKING POSITION

KEY ORIENTATION

MANDATORY MODE CODE

SPECIAL MODIFICATIONS

71 - Cable connecting Receptacle with Nut

3-7-12-19-27-37-61

P Pin Contact  
S Socket Contact

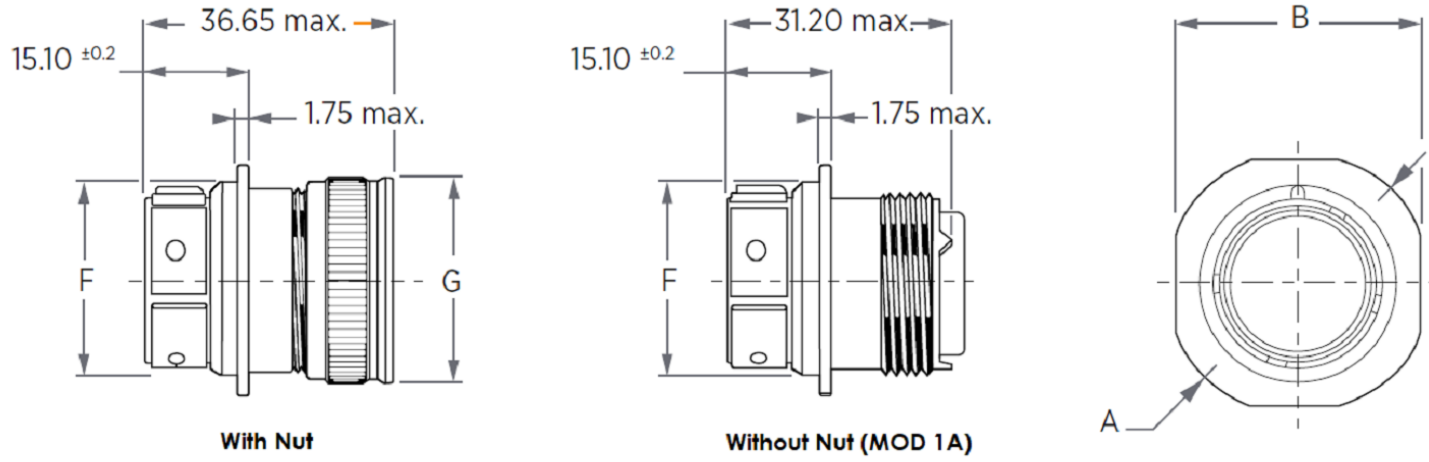
N - Normal  
W-X-Y-B-C Others

DA, DB, DC, DD, DE, DF, DG

090 Without contact  
090-1A Without contact + Without nut  
\*\*\*\*\* For other modifications, consult TE.

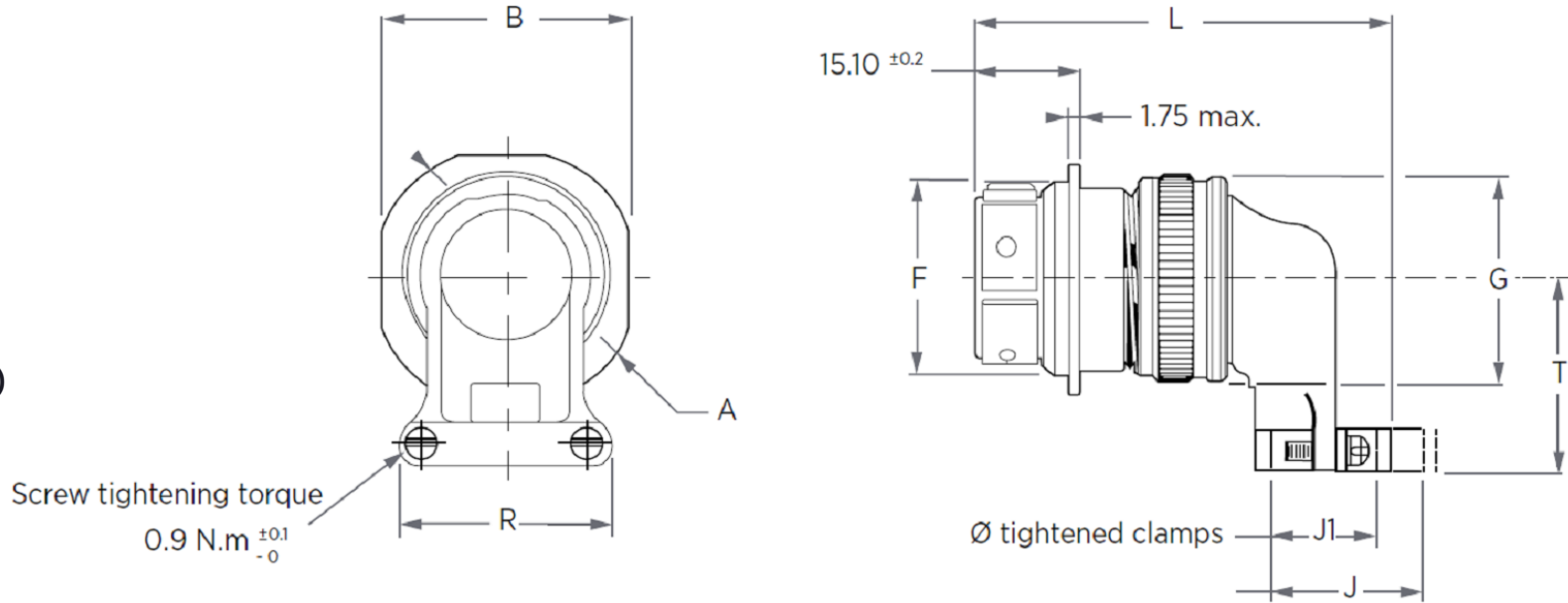
**NOTE :** ESA grade sealed connectors are delivered without Contact and can be delivered only with Nut.  
For other accessory, please indicate mod code "090-1A" instead of "090" on connector part number and order requested accessory separately.

### 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 |

### DBAS 71 - WITH ELBOWED CABLE CLAMP (MOD 081)



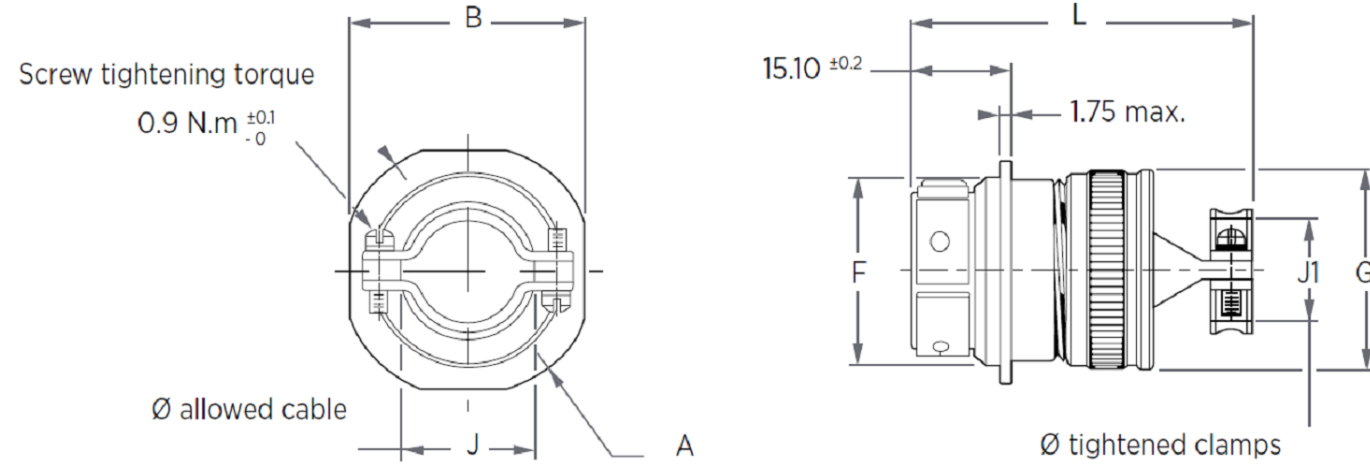
| Part Number             | A max | B max | F max | G max | J mini | J1 max | L max | R max | T max |
|-------------------------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| DBAS 71-3-** P/S * 081  | 25.45 | 22.60 | 14.50 | 17.00 | 6.60   | 5.15   | 48.80 | 17.40 | 21.40 |
| 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 |

### CHARACTERISTICS

- Shell Material : Aluminium alloy, Nickel plated.
- RFI ring Material : Beryllium Copper, Nickel plated.
- Insert Material : Fluorinated silicone and thermosetting resin
- Contact : Crimp Type, Gold over Nickel plated.
- Service Temperature  
For DBAS 71 : - 55° C to + 200° C  
For DBAS 71 - ESA/SCC QPL : - 65° C to + 200° C
- Withstanding Voltage :  
For DBAS 71 : At sea level - Service 1 : 1500 V eff. 50 Hz  
Service 2 : 2300 V eff. 50 Hz  
In altitude - At 33000 m - Service 1 : 350 V  
Service 2 : 500 V

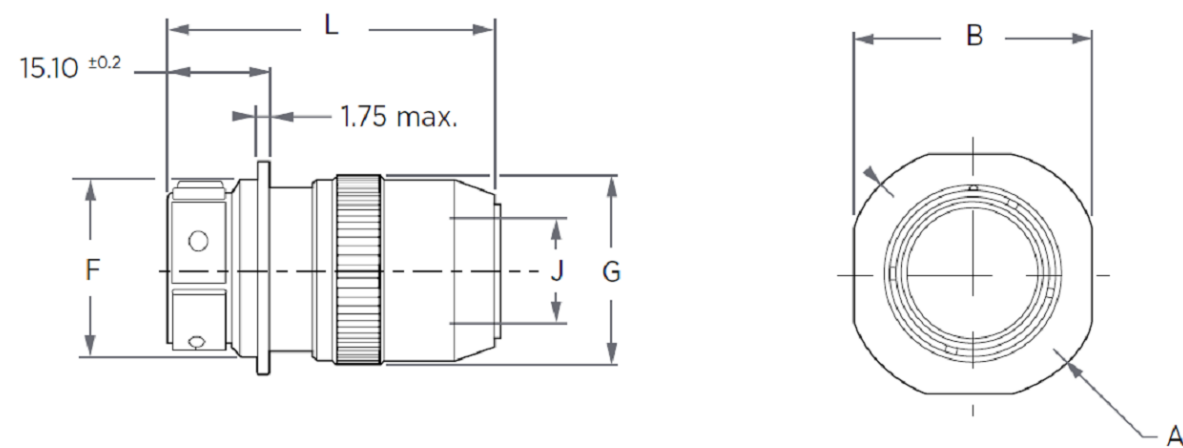
For DBAS 71 - ESA/SCC QPL : At sea level - Contacts Size 20, 16, 12, 08 : 375 Vrms  
& Contacts Size 22 : 250 Vrms  
In altitude - At 33000 m - 200 Vrms

### DBAS 71 - WITH STRAIGHT CABLE CLAMP (MOD 059)



| 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 |

### DBAS 71 - WITH POTTING CUP (MOD A083)



| 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 |

|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| DIMENSIONS:<br>MM | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±<br>1 PLC ±0.05<br>2 PLC ±0.05<br>3 PLC ±0.02<br>4 PLC ± |
| ANGLES ±°         |                                                                                                           |
| SURFACE TEXTURE   |                                                                                                           |

|                                             |                 |                 |
|---------------------------------------------|-----------------|-----------------|
| DWN<br>LAKSHMI SUDHA R                      | MATERIAL<br>-   | HEAT TREAT<br>- |
| CHK<br>RAKESH S                             | TE Connectivity |                 |
| APVD<br>VINCENT P                           |                 |                 |
| NAME<br>DBAS 71_CABLE CONNECTING RECEPTACLE | SCALE<br>1:1    | SIZE<br>A2      |
| DRAWING NO<br>DBAS_71-XX_++                 | SHEET<br>1 of 1 | REV<br>A        |