

# D-DF

D-Sub connectors - Screw-machined Contacts

## FIXED MACHINED CONTACT CONNECTOR



### CHARACTERISTICS

#### Specifications

- Connectors according to MIL C24308 - NFC93425-HE5

| Materials and Platings |                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shells</b>          | Steel tinned with dimples on plug connector                                                                                                                                                                                                 |
| <b>Insulator</b>       | Glass-filled thermoplastic, UL 94V-0                                                                                                                                                                                                        |
| <b>Rear insert</b>     | Brass, 3µm up to 5µm (118µ" up to 197µ")<br>tinned over nickel 2µm up to 3µm<br>(78µ" up to 118µ")                                                                                                                                          |
| <b>Boardlock</b>       | Tin plating 4µm up to 6µm<br>(157µ" up to 236µ") over nickel 2µm up to 3µm<br>(78µ" up to 118µ")                                                                                                                                            |
| <b>Screwlock</b>       | Brass, 6µm up to 10µm (236µ" up to 394µ")<br>tinned over nickel 2µm up to 3µm<br>(78µ" up to 118µ")                                                                                                                                         |
| <b>Contacts</b>        | <b>D:</b> brass<br><b>DF:</b> pin = brass<br>socket = copper alloy<br><b>Right angle version:</b> full gold plating over 2µm to<br>3µm nickel<br><b>Straight version:</b> full gold plating over 2µm up to<br>3µm (78µ" up to 118µ") nickel |

| Electrical Data              |                                           |
|------------------------------|-------------------------------------------|
| <b>Current rating</b>        | 7.5A                                      |
| <b>Voltage rating</b>        | 300V AC/rms 50Hz                          |
| <b>Withstanding voltage</b>  | 1000V AC/rms 50Hz for one minute          |
| <b>Insulation resistance</b> | 5000MΩ                                    |
| <b>Contact resistance</b>    | <b>D:</b> 8.5mΩ max<br><b>DF:</b> 5mΩ max |

| Climatic Data                |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| <b>Operating temperature</b> | <b>D / DF:</b> -55°C to + 125°C                                         |
| <b>Salt spray</b>            | 48 hours                                                                |
| <b>Humidity</b>              | <b>D:</b> 21 days (40°C - 95% HR)<br><b>DF:</b> 56 days (40°C - 95% HR) |

| Mechanical Data                                    |               |              |
|----------------------------------------------------|---------------|--------------|
| <b>Mating and unmating force</b><br>Unit: kg ( lb) |               |              |
| No. of Cts                                         | Mate (max)    | Unmate (min) |
| 9 (size E)                                         | 3.05 (6.74)   | 0.36 (0.79)  |
| 15 (size A)                                        | 5.09 (11.24)  | 0.46 (1.01)  |
| 25 (size B)                                        | 8.44 (18.66)  | 0.81 (1.8)   |
| 37 (size C)                                        | 12.51 (27.65) | 1.1 (2.47)   |
| 50 (size D)                                        | 14.65 (32.38) | 1.6 (3.56)   |

### DESCRIPTION

Amphenol's 17D and 17DF series fixed contact D-Subminiature connector is suitable for industrial or telecom use.

The machined contact provide stability and reliability.

This series offers the broadest range of termination options in the Amphenol line.

*Connectors  
for industrial  
and  
telecom use*

### APPLICATIONS

- Medical
- Industrial
- Telecom
- Any industry standard I / O connections



**Amphenol**

**D-DF / E18**

## Shell size dimensions



| Shell size | Contact<br>P: Pin<br>S: Socket | A<br>±0.25<br>(±.010) | B<br>0/-0.20<br>(0/- .008) | B'<br>+0.20/0<br>(+.008/0) | C<br>±0.10<br>(±.004) | D<br>0/-0.25<br>(0/- .010) | D'<br>+0.25/0<br>(+.010/0) | E<br>±0.20<br>(±.008) | F<br>+0.05/-0.20<br>(+.002/- .008) | F'<br>+0.10/-0.20<br>(+.004/- .008) | G<br>+0.10/-0.20<br>(+.004/- .008) | G'<br>±0.10<br>(±.004) | H<br>+0.10/-0.40<br>(+.004/- .016) | J<br>0/-0.50<br>(0/- .020) |
|------------|--------------------------------|-----------------------|----------------------------|----------------------------|-----------------------|----------------------------|----------------------------|-----------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------|------------------------------------|----------------------------|
| E          | P                              | 30.7<br>(1.209")      |                            | 16.8<br>(.661")            | 25.0<br>(.984")       |                            | 8.2<br>(.323")             | 12.4<br>(.488")       |                                    | 10.9<br>(.429")                     |                                    | 5.9<br>(.232")         | 19.4<br>(.764")                    | 11.0<br>(.433")            |
|            | S                              |                       | 16.4<br>(.646")            |                            |                       | 8.0<br>(.315")             |                            |                       | 11.1<br>(.437)                     |                                     | 6.2<br>(.244")                     |                        |                                    |                            |
| A          | P                              | 39.0<br>(1.535")      |                            | 25.1<br>(.988")            | 33.3<br>(1.311")      |                            | 8.2<br>(.323")             | 12.4<br>(.488")       |                                    | 10.9<br>(.429")                     |                                    | 5.9<br>(.232")         | 27.7<br>(1.091")                   | 11.0<br>(.433")            |
|            | S                              |                       | 24.8<br>(.976")            |                            |                       | 8.0<br>(.315")             |                            |                       | 11.1<br>(.437)                     |                                     | 6.2<br>(.244")                     |                        |                                    |                            |
| B          | P                              | 52.9<br>(2.083")      |                            | 38.8<br>(1.528")           | 47.0<br>(1.850")      |                            | 8.2<br>(.323")             | 12.4<br>(.488")       |                                    | 11.0<br>(.433")                     |                                    | 5.8<br>(.228")         | 41.4<br>(1.630")                   | 11.0<br>(.433")            |
|            | S                              |                       | 38.5<br>(1.513")           |                            |                       | 8.0<br>(.315")             |                            |                       | 11.1<br>(.437)                     |                                     | 6.2<br>(.244")                     |                        |                                    |                            |
| C          | P                              | 69.2<br>(2.724")      |                            | 55.3<br>(2.177")           | 63.5<br>(2.500")      |                            | 8.2<br>(.323")             | 12.4<br>(.488")       |                                    | 11.0<br>(.433")                     |                                    | 5.8<br>(.228")         | 57.9<br>(2.280")                   | 11.0<br>(.433")            |
|            | S                              |                       | 54.9<br>(2.161")           |                            |                       | 8.0<br>(.315")             |                            |                       | 11.1<br>(.437)                     |                                     | 6.2<br>(.244")                     |                        |                                    |                            |
| D          | P                              | 66.8<br>(2.630")      |                            | 52.7<br>(2.075")           | 61.1<br>(2.406")      |                            | 11.0<br>(.433")            | 15.2<br>(.598")       |                                    | 11.0<br>(.433")                     |                                    | 5.8<br>(.228")         | 55.5<br>(2.185")                   | 13.8<br>(.543")            |
|            | S                              |                       | 52.5<br>(2.067")           |                            |                       | 10.9<br>(.429")            |                            |                       | 11.1<br>(.437)                     |                                     | 6.2<br>(.244")                     |                        |                                    |                            |

## Panel cutouts

Optimal cutout for rear mounting



Standard cutout



| Shell size | Mounting method | A<br>±0.20<br>(±.008) | B<br>±0.20<br>(±.008) | C<br>±0.20<br>(±.008) | D<br>±0.20<br>(±.008) | E<br>±0.20<br>(±.008) | F<br>±0.20<br>(±.008) | G<br>±0.20<br>(±.008) | H<br>±0.20<br>(±.008) | J<br>±0.20<br>(±.008) |
|------------|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| E          | Front           | 22.2<br>(.874")       | 11.1<br>(.437")       | 25.0<br>(.984")       | 12.5<br>(.492")       | 13.0<br>(.512")       | 6.5<br>(.256")        | 3.0<br>(.118")        | 1.5<br>(.059")        | 2.1<br>(.083")        |
|            | Rear            | 20.5<br>(.807")       | 10.2<br>(.402")       |                       |                       | 11.4<br>(.449")       | 5.7<br>(.224")        |                       |                       | 3.4<br>(.0134")       |
| A          | Front           | 30.5<br>(1.201")      | 15.3<br>(.602")       | 33.3<br>(1.311")      | 16.7<br>(.657")       | 13.0<br>(.512")       | 6.5<br>(.256")        | 3.0<br>(.118")        | 1.5<br>(.059")        | 2.1<br>(.083")        |
|            | Rear            | 28.8<br>(1.134")      | 14.4<br>(.567")       |                       |                       | 11.4<br>(.449")       | 5.7<br>(.224")        |                       |                       | 3.4<br>(.0134")       |
| B          | Front           | 44.3<br>(1.744")      | 22.1<br>(.870")       | 47.0<br>(1.850")      | 23.5<br>(.925")       | 13.0<br>(.512")       | 6.5<br>(.256")        | 3.0<br>(.118")        | 1.5<br>(.059")        | 2.1<br>(.083")        |
|            | Rear            | 42.5<br>(1.673")      | 21.3<br>(.839")       |                       |                       | 11.4<br>(.449")       | 5.7<br>(.224")        |                       |                       | 3.4<br>(.0134")       |
| C          | Front           | 60.7<br>(2.390")      | 30.4<br>(1.197")      | 63.5<br>(2.500")      | 31.7<br>(1.248")      | 13.0<br>(.512")       | 6.5<br>(.256")        | 3.0<br>(.118")        | 1.5<br>(.059")        | 2.1<br>(.083")        |
|            | Rear            | 59.1<br>(2.327")      | 29.5<br>(1.161")      |                       |                       | 11.4<br>(.449")       | 5.7<br>(.224")        |                       |                       | 3.4<br>(.0134")       |
| D          | Front           | 58.3<br>(2.295")      | 29.2<br>(1.150")      | 61.1<br>(2.406")      | 30.6<br>(1.205")      | 15.8<br>(.622")       | 7.9<br>(.311")        | 3.0<br>(.118")        | 1.5<br>(.059")        | 2.1<br>(.083")        |
|            | Rear            | 56.3<br>(2.217")      | 28.2<br>(1.110")      |                       |                       | 14.1<br>(.555")       | 7.1<br>(.280")        |                       |                       | 3.4<br>(.0134")       |

## Termination

### Right angle

#### MIL Footprint

without bracket:



**C**



**A4**

plastic bracket:



**AJ3**



**AJ4**

metal bracket:



**A**



**AM4: A=13.2mm**  
**AZ4: A=11.5mm**



**AM4B**

50 contacts:



## Termination

### European footprint

without bracket:



1AON: X=2.54mm

1BON: X=2.84mm

plastic bracket:



1APN: X=2.54mm

1BPN: X=2.84mm



1AUN: X=2.54mm

1BUN: X=2.84mm

metal bracket:



1AMN: X=2.54mm

1BMN: X=2.84mm



1ATN: X=2.54mm

1BTN: X=2.84mm

50 contacts:



# Termination

## Solder Cup:

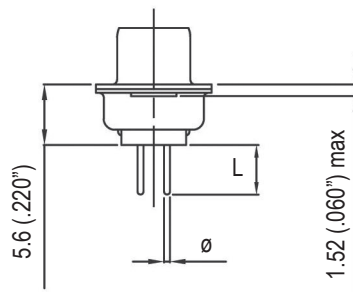


## Wire Wrap:



| termination  | Nb of wraps | L             |
|--------------|-------------|---------------|
| <b>F179</b>  | 2           | 9.6mm (.378") |
| <b>F179A</b> | 3           | 13mm (.512")  |

## Straight PCB:



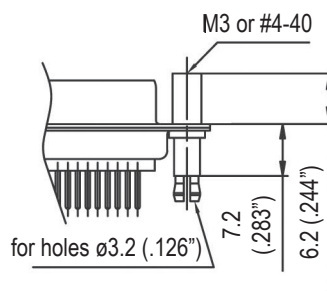
| termination | Ø              | L             |
|-------------|----------------|---------------|
| <b>U</b>    | 0.6mm (.024")  | 3.2mm (.126") |
| <b>V</b>    | 1.02mm (.040") | 2.4mm (.095") |
| <b>T</b>    | 0.6mm (.024")  | 4mm (.157")   |
| <b>OL2</b>  | 0.6mm (.024")  | 5.5mm (.217") |

## Grounding tabs:

### For straight termination



RM5



RM8

### For R/A termination

#### FOR PCB 1.6



RM6

## Panel mounting option

For straight and R/A termination



## Recommended PCB Layout



For straight PCB:  $X = 2.84\text{mm} (.112")$

For right angle PCB: MIL:  $X = 2.84\text{mm} (.112")$

European:  $X = 2.54\text{mm} (.100")$ ,  $2.84\text{mm}$  in option

|                                      | size E       | size A       | size B        | size C        | size D       |
|--------------------------------------|--------------|--------------|---------------|---------------|--------------|
| <b>C<math>\pm 0,1 (.004)</math></b>  | 25 (.984)    | 33.3 (1.311) | 47 (1.85)     | 63.5 (2.5)    | 61.1 (2.406) |
| <b>F<math>\pm 0,05 (.002)</math></b> | 10.96 (.431) | 19.18 (.755) | 33.12 (1.304) | 49.68 (1.956) | 44.2 (1.74)  |

## How to order

**L**

RoHS Compliant

|                      |                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| <b>0.2µm (8µ")</b>   | <b>77D:</b> tinned shell for receptacle<br><b>717D:</b> tinned shell + dimples for plug                   |
| <b>0.5µm (20µ")</b>  | <b>77DF or 177D:</b> tinned shell for receptacle<br><b>717DF or 777D:</b> tinned shell + dimples for plug |
| <b>0.76µm (30µ")</b> | <b>177DF :</b> tinned shell for receptacle<br><b>777DF :</b> tinned shell + dimples for plug              |

shell size: E,A,B,C, D

**mounting options:**  
**H** = rear insert 4-40  
**G** = rear insert M3  
**F** = float mounting  
**no digit** = standard rivet ø3.1mm  
 \*H, G must also be used to specify the threading of RM5 grounding tabs.

configuration: 09,15,25,37, 50

**contact type:**  
**P** = pin  
**S** = socket

**for specific product**

**grounding tabs:**  
**RM5** = for straight PCB mounting\*  
**RM8** = for straight PCB mounting + female lock  
**RM6** = for right angle PCB mounting  
**VF** = front screwlock 4-40  
**VFM** = front screwlock M3  
**VF2** = removable screwlock 4-40  
**VFM2** = removable screwlock M3

**termination:**  
**-solder cup:** no digit  
**-wire wrap:**  
**F179** = length 9.6mm  
**F179A** = length 13mm  
**-straight PCB:**  
**U** = length 3.2mm, tail ø0.6mm  
**V** = length 2.4mm, tail ø1.02mm  
**T** = length 4mm, tail ø0.6mm  
**OL2** = length 5.5mm, tail ø0.6mm  
**-right angle connector:**  
**MIL footprint**  
 without bracket: **C** = tail ø1.02mm  
**A4** = tail ø0.6mm  
 plastic bracket: **AJ3** = tail ø1.02mm  
**AJ4** = tail ø0.6mm  
 metal bracket: **A** = tail ø1.02mm  
**AM4** = A = 13.2mm  
**AZ4** = A = 11.5mm  
**AM4B** = footprint 14.99mm (.590")  
**European footprint**  
 without bracket: **1AON** = X = 2.54mm  
**1BON** = X = 2.84mm  
 plastic bracket: **1APN** = X = 2.54mm  
**1BPN** = X = 2.84mm  
**1AUN** = X = 2.54mm  
**1BUN** = X = 2.84mm  
 metal bracket: **1AMN** = X = 2.54mm  
**1BMN** = X = 2.84mm  
**1ATN** = X = 2.54mm  
**1BTN** = X = 2.84mm

Standard options

**For special request, please consult factory**

|                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                              |
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## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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