

# D-SUBMINIATURE (D-SUB) D/8656/DP SERIES

## OVERVIEW

FCI's D-Subminiature (D-Sub) connectors are part of an industry standard for applications requiring robust and reliable connectors. These proven D-Sub connectors are one of the most popular Input/Output interconnects, addressing a wide variety of applications in telecommunications, data, consumer, industrial, military, instrumentation and medical. FCI offers a wide range of D-Sub connectors to meet various design requirements including those in harsh environment.

These high performance connectors are designed for severe environment applications in the field of telecommunications, aerospace, military (125°C) class and for particularly severe applications, especially high temperature (+155°C) class. It features machined contacts and is available in solder bucket, straight spills, angled spills and wire wrap terminations.



## FEATURES

- Standard D type is a basic I/O connector
- D-shaped design with 2 shells and 2 housings
- D-shaped shell design
- Meets DIN 41652 and MIL-C-24308 dimensional standards
- 9 to 50 positions available for contact layout
- Stamped and formed contacts
- Straight and angled terminations available
- Different PCB mounting and panel mounting accessory options available
- Standard solder bucket and crimp termination available
- Removable contact comes separately in crimp connectors
- Connectors suitable for different cable and wire sizes available
- Good variety of hoods to complement cable connectors
- DP series comes with machined contacts

## BENEFITS

- Useful in almost every standard I/O application
- Rugged and sturdy connector
- Supports the need for polarisation
- Interchangeable and intermateable with other makes
- Supports various customised needs at customers' end
- Economical solution
- Varied PCB mounting options
- Wide variety of choices for secure connection
- Suitable for panel mount and cable mount applications
- Easy to make cable harness of desired choice at application end
- Able to meet desired power rating
- Results in secure and reliable connection
- Suitable for high-end applications

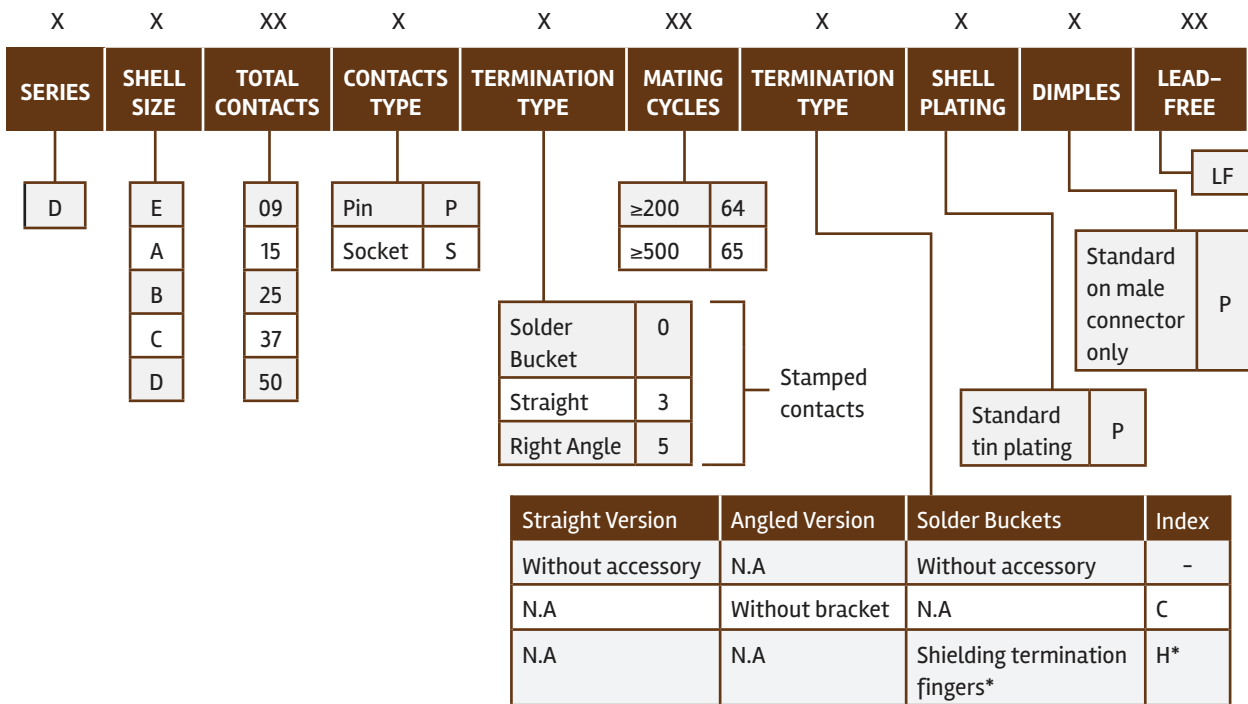
## STAMPED AND ROLLED CONTACTS

**UL Recognised File E 66906**

D series is the standard D-Sub full metal shell version with stamped contacts. This design is basically proposed in solder bucket, straight and angled version without accessories



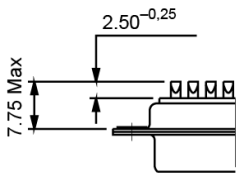
## PART NUMBER SELECTOR



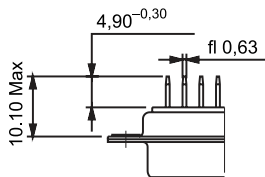
\* Not available on 50 way

## SPECIFIC DIMENSIONS

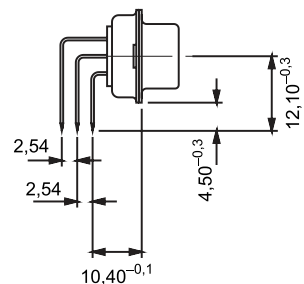
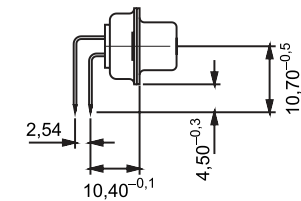
### Solder Buckets



### Straight Spills



### Right Angle Spills



#### Disclaimer

## ► D-SUBMINIATURE (D-SUB) D/8656/DP SERIES

# CRIMP CONTACTS AND CABLE CONNECTORS

**UL** <sup>®</sup> UL Recognised File E 66906

- 8656 series is a D connector with removable crimp contacts for AWG 20/24 or 24/28 wires
- It is used for commercial cabling like computer equipment, cash register
- It accepts our standard accessories (hoods, locking devices) and is available with a complete range of crimping tools from hand tools to high volume production equipment



## PART NUMBER SELECTOR

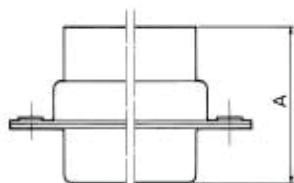
SERIES	OPTIONS	NO. OF CONTACTS	CONTACTS	L	SHELL PLATING	DIMPLES	LEAD-FREE	LF
8656		09 15 25 37 50			Standard on male shell only		X	
	Standard mounting hole (Ø = 3.10)	-			Standard tin plated	T		
	Threaded insert UNC 4-40	0			Supplied without contacts (obligatory)			
			Pin	P				
			Socket	S				

## PART NUMBERS

Contact Type	Packaging Type			
	Box of 500 Contacts ✓	Reel of 400 Contacts	Reel of 5000 Contacts ✓	Reel of 10 000 Contacts
AWG 24/28 male	865635006 ▲	8656300306 ▲	8656451006 ▲	8656454006 ▲
AWG 24/28 female	865635106 ▲	8656300406 ▲	8656651006 ▲	8656654006 ▲
AWG 20/24 male	865635206 ▲	8656300506 ▲	8656452006 ▲	8656453006 ▲
AWG 20/24 female	865635306 ▲	8656300606 ▲	8656652006 ▲	8656653006 ▲

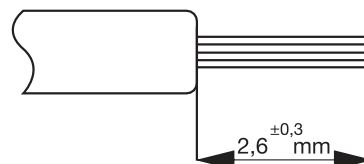
▲ Contact performance code 4LF: ≥200 mating/unmating, RoHS compatible  
5LF: ≥500 mating/unmating, RoHS compatible

## SPECIFIC DIMENSIONS



Contacts	09	15	25	37	50
A <sub>Max.</sub> Pin	17.19	17.19	17.35	17.35	17.35
Socket	17.44	17.44	17.44	17.44	17.44

## CABLE PREPARATION



For more information,  
please contact: [Communications@fci.com](mailto:Communications@fci.com)  
or visit us at [www.fci.com](http://www.fci.com)

Disclaimer  
Please note that the above information is subject to change without notice.

## MACHINED CONTACTS

**UL Recognised File E 66906**

- DP series is designed for high performance applications, particularly in the field of telecommunications: data transmission, private automatic branch switching, telecom (LNZ listed)
- It features machined contacts and is available with solder bucket, straight spills, angled spills, and wire wrap terminations



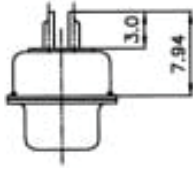
## PART NUMBER SELECTOR

SERIES	SHELL SIZE	P	FRONT ACCESSORIES	NO. OF CONTACTS	CONTACTS	TERMINATION TYPE	MATING CYCLES	C	SHELL PLATING	DIMPLES	LEAD-FREE																														
D	E A B C D			09 15 25 37 50	Pin P Socket S				Standard tin plated T		LF Standard on male connector only X																														
<p>Characterisation of DP series</p> <table border="1"> <tr> <td>Standard mounting hole (∅ = 3.10)</td> <td>-</td> <td>09</td> </tr> <tr> <td>Threaded insert M3</td> <td>L</td> <td>15</td> </tr> <tr> <td>Female screw locks UNC 4-40</td> <td>V</td> <td>25</td> </tr> <tr> <td>Spacers (straight spills only)</td> <td>S</td> <td>37</td> </tr> <tr> <td></td> <td></td> <td>50</td> </tr> </table>												Standard mounting hole (∅ = 3.10)	-	09	Threaded insert M3	L	15	Female screw locks UNC 4-40	V	25	Spacers (straight spills only)	S	37			50															
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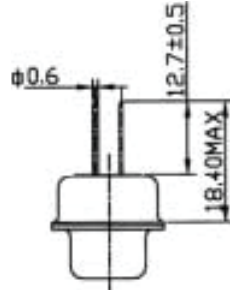
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### SPECIFIC DIMENSIONS

#### Solder Buckets

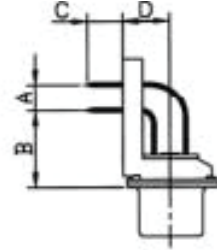


#### Wire Wrap

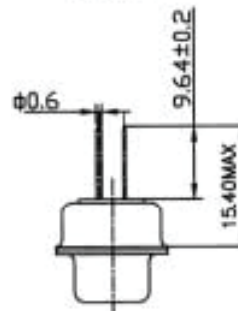
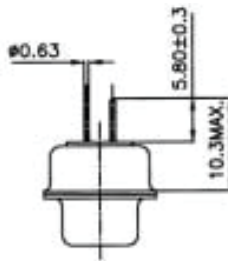


3 Levels

#### Right Angle Spills

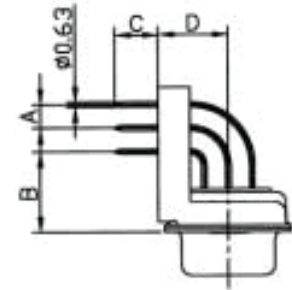


#### Straight Spills



2 Levels

Diagonal 0.79-0.87



Dimension	Termination Code		
	5	8	
A	2.54	2.84	
B <sup>±0.1</sup>	10.30	10.30	
C <sup>±0.5</sup>	4.00	4.00	
D <sup>±0.1</sup>	9 to 37 contacts	7.20	7.20
	50 contacts	8.60	8.60

## D-SUBMINIATURE (D-SUB) D/8656/DP SERIES



### TARGET MARKETS/APPLICATIONS

- Communications
  - Asymmetric Digital Subscriber Line (ADSL)
  - Base Station
  - Switching
  - Transmission
- Industrial & Instrumentation
  - Automotive Diagnostics
  - Control Drives
  - Energy Meter
  - Gaming Machine
  - Test Equipment
  - Office Automation
  - POS & Handheld terminal
  - Power Supplies
  - Parking Meter
  - Printer and Copier
  - Renewable Energy
  - Robotics
  - Surveillance Camera
- Data
  - Desktop and Laptop
  - Storage System
  - Router and Server
- Consumer
  - Set-top Box
- Medical
  - Medical Instrument
- Military
  - Avionics
  - Military Equipment

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#### Disclaimer

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