

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

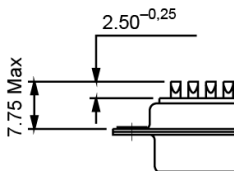
X	X	XX	X	X	XX	X	X	X	XX
SERIES	SHELL SIZE	TOTAL CONTACTS	CONTACTS TYPE	TERMINATION TYPE	MATING CYCLES	TERMINATION TYPE	SHELL PLATING	DIMPLES	LEAD-FREE
D	E A B C D	09 15 25 37 50	Pin P Socket S	Solder Bucket 0 Straight 3 Right Angle 5	≥200 64 ≥500 65	Stamped contacts	Standard tin plating P	Standard on male connector only P	LF

Straight Version	Angled Version	Solder Buckets	Index
Without accessory	N.A	Without accessory	-
N.A	Without bracket	N.A	C
N.A	N.A	Shielding termination fingers*	H*

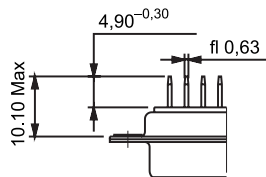
* Not available on 50 way

SPECIFIC DIMENSIONS

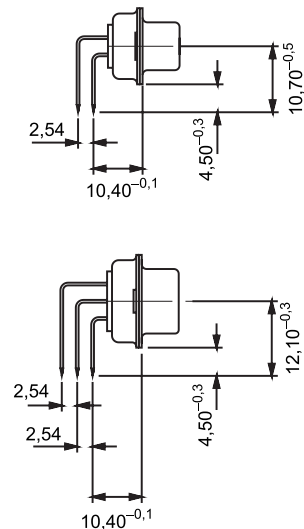
Solder Buckets



Straight Spills



Right Angle Spills

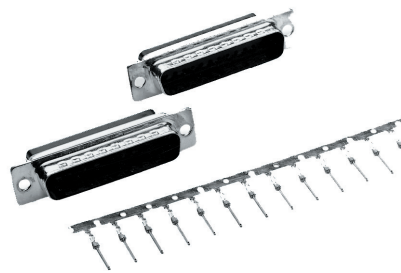


► D-SUBMINIATURE (D-SUB) D/8656/DP SERIES

CRIMP CONTACTS AND CABLE CONNECTORS

UL [®] 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

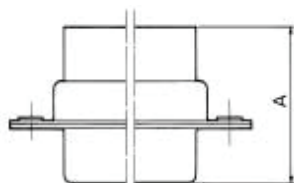
SERIES	OPTIONS	NO. OF CONTACTS	CONTACTS	L	SHELL PLATING	DIMPLES	LEAD-FREE	LF
8656		09 15 25 37 50			Standard on male shell only		X	
	Standard mounting hole (Ø = 3.10)	-			Standard tin plated	T		
	Threaded insert UNC 4-40	0			Supplied without contacts (obligatory)			
			Pin	P				
			Socket	S				

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 ▲

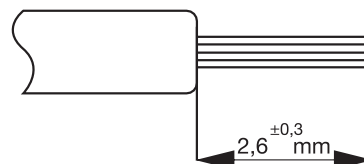
▲ Contact performance code 4LF: ≥200 mating/unmating, RoHS compatible
5LF: ≥500 mating/unmating, RoHS compatible

SPECIFIC DIMENSIONS



Contacts	09	15	25	37	50
A _{Max.} 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
or visit us at 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



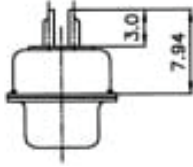
PART NUMBER SELECTOR

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															
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																																							
<p>PCB Accessories</p> <table border="1"> <thead> <tr> <th>Straight Spills</th> <th>Angled Spills</th> <th>Solder Buckets</th> <th>Wire Wrap</th> <th>Index</th> </tr> </thead> <tbody> <tr> <td>Without accessory</td> <td>Two plastic brackets*</td> <td>Without accessory</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>Without bracket</td> <td>-</td> <td>-</td> <td>C</td> </tr> <tr> <td>-</td> <td>Two metal brackets</td> <td>-</td> <td>-</td> <td>M</td> </tr> <tr> <td>Harpoons (Compulsory with option L or V)</td> <td>Harpoons (9 to 37 ways only)</td> <td>-</td> <td>-</td> <td>G</td> </tr> <tr> <td>-</td> <td></td> <td>Shielding termination fingers</td> <td>-</td> <td>H</td> </tr> </tbody> </table>												Straight Spills	Angled Spills	Solder Buckets	Wire Wrap	Index	Without accessory	Two plastic brackets*	Without accessory	-	-	-	Without bracket	-	-	C	-	Two metal brackets	-	-	M	Harpoons (Compulsory with option L or V)	Harpoons (9 to 37 ways only)	-	-	G	-		Shielding termination fingers	-	H
Straight Spills	Angled Spills	Solder Buckets	Wire Wrap	Index																																					
Without accessory	Two plastic brackets*	Without accessory	-	-																																					
-	Without bracket	-	-	C																																					
-	Two metal brackets	-	-	M																																					
Harpoons (Compulsory with option L or V)	Harpoons (9 to 37 ways only)	-	-	G																																					
-		Shielding termination fingers	-	H																																					
<p>*Except 50 pos. with monobloc plastic brackets</p> <table border="1"> <tr> <td>Solder buckets (N.A for plating 00)</td> <td>0</td> <td>≥200</td> <td>64</td> </tr> <tr> <td>Straight spills</td> <td>3</td> <td>≥500; N.A for solder bucket termination</td> <td>65</td> </tr> <tr> <td>Angled spills- 2.54mm between rows</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td>Angled spills- 2.84mm between rows</td> <td>8</td> <td></td> <td></td> </tr> <tr> <td>Wire wrap (3 levels)</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>Wire wrap (2 levels)</td> <td>6</td> <td></td> <td></td> </tr> </table>												Solder buckets (N.A for plating 00)	0	≥200	64	Straight spills	3	≥500; N.A for solder bucket termination	65	Angled spills- 2.54mm between rows	5			Angled spills- 2.84mm between rows	8			Wire wrap (3 levels)	4			Wire wrap (2 levels)	6								
Solder buckets (N.A for plating 00)	0	≥200	64																																						
Straight spills	3	≥500; N.A for solder bucket termination	65																																						
Angled spills- 2.54mm between rows	5																																								
Angled spills- 2.84mm between rows	8																																								
Wire wrap (3 levels)	4																																								
Wire wrap (2 levels)	6																																								

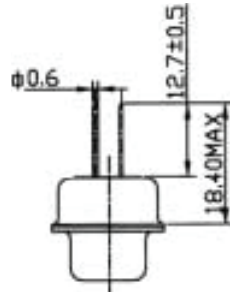
► D-SUBMINIATURE (D-SUB) D/8656/DP SERIES

SPECIFIC DIMENSIONS

Solder Buckets

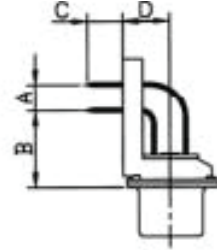


Wire Wrap

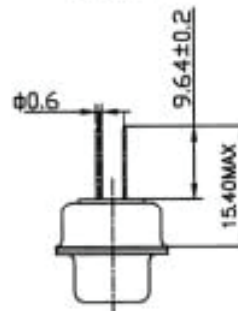
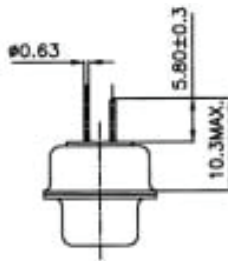


3 Levels

Right Angle Spills

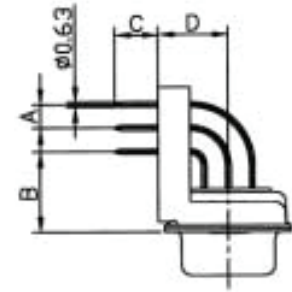


Straight Spills



2 Levels

Diagonal 0.79-0.87



Dimension	Termination Code		
	5	8	
A	2.54	2.84	
B ^{±0.1}	10.30	10.30	
C ^{±0.5}	4.00	4.00	
D ^{±0.1}	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

INODSUBDDP0515EA4

Disclaimer

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