

Amphenol'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. Amphenol offers a wide range of D-Sub connectors to meet various design requirements including those in harsh environment.

These cable connectors are designed to act as input output connectors and mate with PCB connectors or another cable connector depending on the application. It comes with solder bucket and crimp terminations. Various associated accessories including Hoods and locking devices help to prevents risks of pulling up and accidental un-mating.



### **FEATURES**

- A Basic I/O connector comes with five shell size and housing design
- Has a D-shaped shell design
- Meets DIN 41652 and MIL-C-24308 dimensional standards
- Available in Solder Bucket, Crimp terminations
- Frugal- D design (2 shells + 2 housings) with stamped & formed contacts
- Various PCB and Panel mounting accessory options available
- Hoods available in plastic, metalized and metallic form with locking screws
- Lead-free and RoHS compliant

### **BENEFITS**

- Most popular Rugged and sturdy I/O connector
- Supports the need for polarisation
- Interchangable and intermateable with other makes
- Support all Cable mounting requirements
- Economical solution
- Wide variety of choices for secure connection
- Supports cable connection; Prevents risks of pulling up and accidental un-mating
- Meets environmental, health and safety requirements

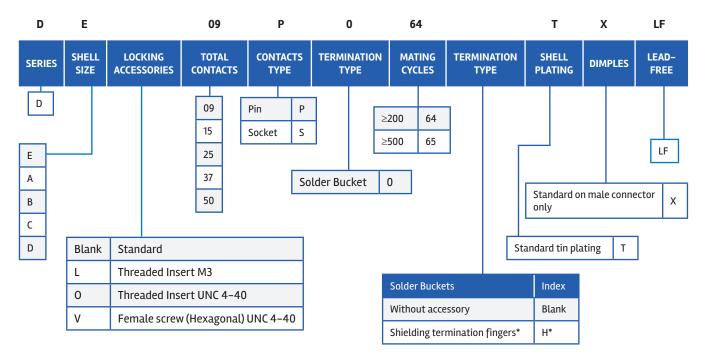
# STAMPED AND ROLLED CONTACTS



D series is the standard D-Sub full metal shell version with stamped contacts. This design is basically proposed in solder bucket version.

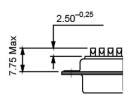


# PART NUMBER SELECTOR



# **SPECIFIC DIMENSIONS**

Solder Buckets



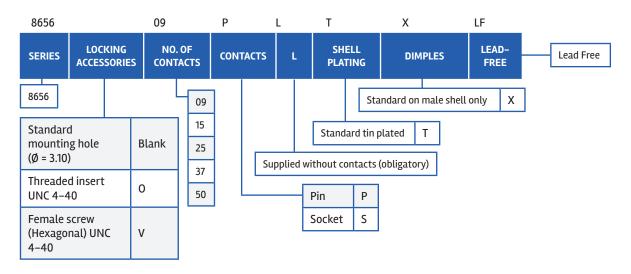
# CRIMP CONTACTS AND CABLE CONNECTORS

# **TI** 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 - CRIMP CONNECTOR HOUSING (W/O CONTACTS)



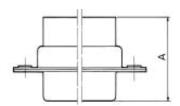
# PART NUMBER SELECTOR - CRIMP CONTACTS

Contact Type	Packaging Type						
Contact Type	Box of 500 Contacts $\sqrt{}$	Reel of 400 Contacts R	Reel of 5000 Contacts $$				
AWG 24/28 male	865635006 ∆	8656300306 ∆	8656451006 ∆				
AWG 24/28 female	865635106 ∆	8656300406 ∆	8656651006 ∆				
AWG 20/24 male	865635206 ∆	8656300506 ∆	8656452006 ∆				
AWG 20/24 female	865635306 ∆	8656300606 ∆	8656652006 ∆				

△ Contact performance code

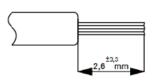
4LF: ≥200 mating/unmating, RoHS compatible 5LF: ≥500 mating/unmating, RoHS compatible

# **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**



# MIXED AND FULL POWER CABLE CONNECTORS

# **LAYOUTS**

• Male insulator front view

Shell size	Layout				
E	5W1	(; •; ·			
	11W1	(*;*•*;*;)			
A	7W2	<b>•</b> ;;;•			
•	3W3				
	3V3				
	21W1	1 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	17W2				
В	13W3				
	9W4				
	5W5				

Shell size	Layout					
	25W3	M 45 1 7 2 4 5 6 7 8 6 10 11 A2				
	21WA4	(A)				
С	27W2	AI 1 2 3 4 5 8 7 8 9 1811 1218 A2 14 15 16 17 18 19 30 21 22 23 14 2				
	8W8	••••••••••••••••••••••••••••••••••••••				
D	47W1					
	24W7	A1				
	36W4	( ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °				

Standard contacts

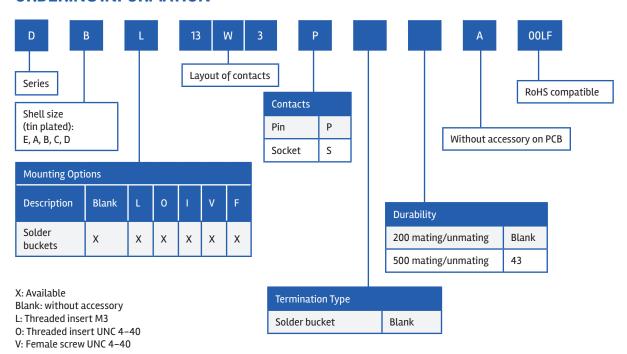
Coaxial and power contacts

# MIXED AND FULL POWER CABLE CONNECTORS



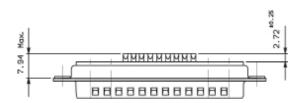


# **ORDERING INFORMATION**



# **SPECIFIC DIMENSIONS**

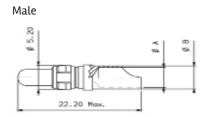
### **Solder Bucket**

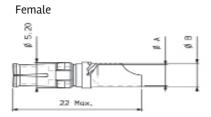


# Solder version Crimp version

# **POWER SOLDER AND CRIMP CONTACTS**

# **SOLDER CONTACTS**







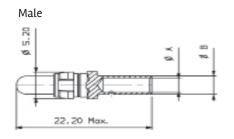
i ivne i (lirrent i :		RoHS* Part Number	RoHS* Part Number ≥500 mating/ unmating	Wire		Strip	Ø A +0.1	45.05	
	Colour	Colour ≥200 mating/ unmating		Size	Section mm2	length mm <sup>±0.5</sup>	+0	Ø B +0.5	
Male	10A	Black	8638PPS1005LF	8638PPS1006LF	16	1.3	7	1.7	2.6
Male	15A	White	8638PPS1505LF	8638PPS1506LF	14	1.9	7	2.1	3
Male	20A	Red	8638PPS2005LF	8638PPS2006LF	12	3.2	7	2.8	3.65
Male	40A	Blue	8638PPS4005LF	8638PPS4006LF	8	9	7	4.4	5
Female	10A	Black	8638PSS1005LF	8638PSS1006LF	16	1.3	7	1.7	2.6
Female	15A	White	8638PSS1505LF	8638PSS1506LF	14	1.9	7	2.1	3
Female	20A	Red	8638PSS2005LF	8638PSS2006LF	12	3.2	7	2.8	3.65
Female	40A	Blue	8638PSS4005LF	8638PSS4006LF	8	9	7	4.4	5

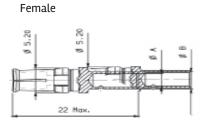
Clip material: Plastic withstanding 125°C Termination plating: Matt tin

<sup>\*</sup>RoHS compatible EU directive 2002/95/EC

# **POWER SOLDER AND CRIMP CONTACTS**

# **CRIMP CONTACTS**







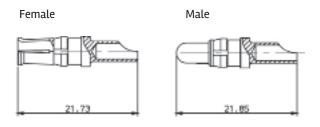
Max. Clip Current Rating			RoHS* Part Number ≥500 mating/ unmating	Wire		Strip	Ø A +0.1	Ø B +0.5	
	Colour			Size	Section mm2	length mm <sup>±0.5</sup>	+0	<del>у Б +</del> 0.5	
Male	10A	Black	8638PPC1005LF	8638PPC1006LF	16 to 18	0.9 to 1.3	7	1.8	2.55
Male	15A	White	8638PPC1505LF	8638PPC1506LF	12 to 14	2 to 3	7	2.8	3.7
Male	20A	Red	8638PPC2005LF	8638PPC2006LF	9	6	7	3.75	4.65
Male	40A	Blue	8638PPC4005LF	8638PPC4006LF	8 to 10	5 to 8	7	4.8	5.5
Female	10A	Black	8638PSC1005LF	8638PSC1006LF	16 to 18	0.9 to 1.3	7	1.8	2.55
Female	15A	White	8638PSC1505LF	8638PSC1506LF	12 to 14	2 to 3	7	2.8	3.7
Female	20A	Red	8638PSC2005LF	8638PSC2006LF	9	6	7	3.75	4.65
Female	40A	Blue	8638PSC4005LF	8638PSC4006LF	8 to 10	5 to 8	7	4.8	5.4

Clip material: Plastic withstanding 125°C Termination plating: Matt tin

<sup>\*</sup>RoHS compatible EU directive 2002/95/EC

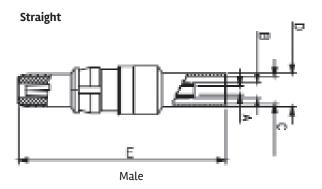
# **CONTACTS (OTHER VERSIONS)**

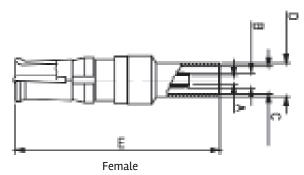
# **POWER CONTACTS - METAL CLIP**



Wire Size	Max. Current	Part Numbers				
	Max. Current	Male	Female			
AWG8	40A	86303098NLF	86303099NLF			
AWG12	20A	86303056NLF	86303057NLF			
AWG14	15A	86303060NLF	86303061NLF			
AWG16	10A	86303064NLF	86303065NLF			

# **COAXIAL CONTACTS**





# **HIGH VOLTAGE CONTACTS**

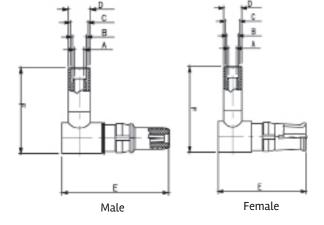


Colors: Blue





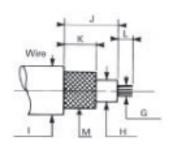
White



These removable contacts are suitable for the contact cavities of the DMW series and DW series.

The coxial contacts are in compliance with:

- NFC 93569
- KMX4 specification



Angled

# **TECHNICAL INFORMATION**

# **ELECTRICAL PERFORMANCE**

■ Dielectric Withstanding Voltage: 2800VRMS

Break Down Voltage: 3200VRMS
 Insulation Resistance: 10<sup>6</sup>MΩ

■ Contact Resistance:  $\leq$  5mΩ

Max. Current Rating: 5A

• Material: TEFLON

### **ENVIRONMENTAL**

■ Operating Temperature Range: -55° C to +125° C

### **MECHANICAL PERFORMANCE**

• Mating force per set of contact: 3 N

• Mating endurance: 200

# **TARGET MARKETS/APPLICATIONS**



Asymmetric Digital Subscriber Line (ADSL) Base Station Switching Transmission



Set-top Box



Desktop and Laptop Storage System Router and Server



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



Medical Instrument



Avionics Military Equipment