FCI

D-SUBMINIATURE MILITARY PRODUCTS – DM SERIES

OVERVIEW

FCI's D-Subminiature connectors are part of an industry standard for applications requiring robust and reliable connectors. These proven D-Subminiature 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. Since many years FCI has been offering a wide range of D-Subminiature 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 – data transmission, private automatic branch switching... Connectors for Aerospace, military (125°C) class and for particularly severe applications, especially high temperature (+155°C) class available. It features machined contacts and is available with solder bucket, straight spills, angled spills and wire wrap terminations.

FEATURES & BENEFITS

- Suitable for high performance applications particularly in the field of Telecommunications, data transmission, automatic branch switching

- Available for PCB & Cable applications

- Signal – 09 to 50 position connectors, Power – wide range of layouts from 2V2 to 36W4

- DM series suitable for Aerospace, Military application comply with MIL-C-24308 standard

- Use machined contacts in solder bucket, straight and right angled termination

TARGET MARKETS/APPLICATIONS

- Data
  - Servers
  - Server & storage blades
  - External storage system
  - HDDs
  - HDD carriers
- Communications
  - Processor & storage blades
  - Mezzanine cards
- Industrial, Instrumentation & Medical
  - Embedded system boards

DM SERIES HE 501

UL Rating Product E 118235 (R)

- For aerospace, military 125° class–European standard in compliance with NFC 93425/HE 501

- Shell plating: Cadmium

- Military and Aero applications

ORDERING INFORMATION

| D | B | M | L | 25 | P | 5 | 00 | M |

Series: D

Shell Size
E
A
B
C
D

Characterisation of Military series

Number of Contacts
09
15
25
37
50

Options 1	
Standard mounting hole (Ø = 3.10)	Blank
Threaded insert M3	L
Float mounting	F

Contacts	
Socket	S

Termination	
Solder buckets	Blank
Straight solder spills	3
Angled solder spills	5
Wire wrap (3 levels)	4

Plating	
Standard = Gold/Nickel (Blank for solder bucket termination)	00
Please consult us	Others

Options 2	Version	
	Angled Spills	Other Terminations
Blank	Plastic brackets	Not applicable
C	Without brackets	Not applicable
M	Metal brackets	Not applicable

D–SUBMINIATURE MILITARY PRODUCTS – DM SERIES

DM SERIES HE 501

SPECIFIC DIMENSIONS
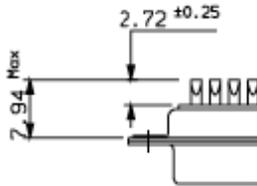
Solder Buckets

Straight Spills
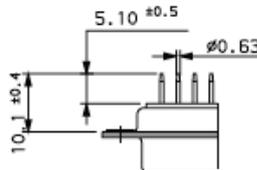
Wire Wrap
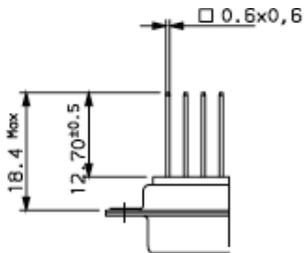
	3 levels
A	12.70 ± 0.5
B	18.40 Max.
▱	0.79 x 0.87

3 Levels
Diagonale 0.79 – 0.87

Right Angle Spills
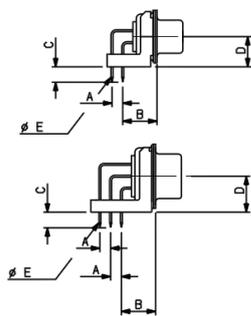
CROSS REFERENCE LIST FOR THE MAIN HE 501 AND FCI

Connector Type			HE 501	FCI
Solder buckets			HE 501 N..AP3	D.M..PLF
		F	HE 501 N..AP3	D.M...SLF
	Float mounting	M	HE 501 F..AP3	D.M..PLF
		F	HE 501 F..AP3	D.M...SLF

Connector Type			HE 501	FCI
Straight spills	Standard	M	HE 501 N..YP4.3	D.M..P 300LF
		F	HE 501 N..YS4.3	D.M...S 300LF
	Float mounting	M	HE 501 F..YP4.3	D.MF..P 300LF
		F	HE 501 F..YS4.3	D.MF..S 300LF

Connector Type			HE 501	FCI
Wire wrap 3 levels	Standard	M	HE 501 N..KP3.3	D.M..P 400LF
		F	HE 501 N..KS3.3	D.M...S 400LF
	Float mounting	M	HE 501 F..KP3.3	D.MF..P 400LF
		F	HE 501 F..KS3.3	D.MF..S 400LF

Connector Type			HE 501	FCI
Angled spills 500	Standard	M	HE 501 P..VP6.3	D.M..P 500LF
		F	HE 501 P..VS6.3	D.M...S 500LF
	Metal brackets	M	HE 501 M..VP6.3	D.M..P 500MLF
		F	HE 501 M..VS6.3	D.M...S 500MLF

Dimension		Termination
		5
A		2.54
B±0.1		10.30
C±0.5		4.00
D±0.1	9 to 37 contacts	7.20
	50 contacts	8.60
Ø E		0.63

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

DM SERIES HE 508

UL Rating Product E 118235 (R)

- For particulary severe applications, especially high temperatures class + 155°C in compliance with NFC 93425 / HE 508

- Shell plating: Cadmiums

- Military and Aero applications

ORDERING INFORMATION

| D | B | M | LF | 25 | P | 5 | 00 | M | N | Obligatory for HE 508 | N |

Series:
D

Shell Size	
E	
A	
B	
C	
D	

Characterisation of Military series	M

Options 1	
Standard mounting hole (Ø = 3.10)	Blank
Float mounting	F

Number of Contacts	
09	
15	
25	
37	
50	

Contacts	
Pin	P
Socket	S

Termination	
Solder buckets	Blank
Straight solder spills	3
Angled solder spills	5
Wire wrap (3 levels)	4

Plating	
Standard = Gold/nickel Blank for solder bucket termination	00
Please consult us	Others

Options 2		
Option	Version	
	Angled Spills	Other Terminations
Blank	Plastic brackets	Not applicable
C	Without brackets	Not applicable
M	Metal brackets	Not applicable

DM SERIES HE 508

SPECIFIC DIMENSIONS
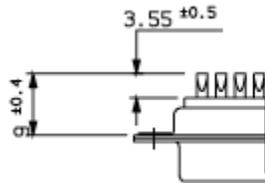
Solder Buckets

Straight Spills
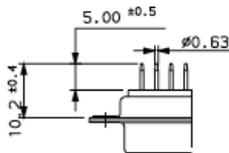
Wire Wrap
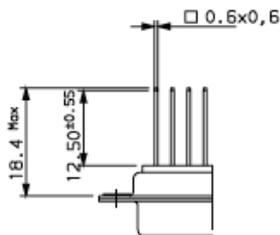
3 Levels
Diagonale 0.79 – 0.87

Right Angle Spills
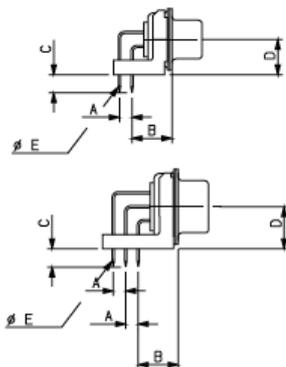
CROSS REFERENCE LIST FOR THE MAIN HE 508 AND FCI

Connector Type			HE 508	FCI
Solder buckets	Standard	M	HE 508 N..AP	D.M..PNLF
		F	HE 508 N..AS	D.M..SNLF
	Float mounting	M	HE 508 F..AP	D.MF..PNLF
		F	HE 508 F..AS	D.MF..SNLF

Connector Type			HE 508	FCI
Straight spills	Standard	M	HE 508 N..YP4	D.M..P 300NLF
		F	HE 508 N..YS4	D.M..S 300NLF
	Float mounting	M	HE 508 F..YP4	D.MF..P 300NLF
		F	HE 508 F..YS4	D.MF..S 300NLF

Connector Type			HE 508	FCI
Wire wrap 3 levels	Standard	M	HE 508 N..KP3	D.M..P 400LF
		F	HE 508 N..KS3	D.M..S 400LF
	Float mounting	M	HE 508 F..KP3	D.MF..P 400NLF
		F	HE 508 F..KS3	D.MF..S 400NLF

Connector Type			HE 508	FCI
Angled spills 500	Standard	M	HE 508 P..VP6	D.M..P 500NLF
		F	HE 508 P..VS6	D.M..S 500NLF
	Metal	M	HE 508 M..VP6	D.M..P 500MNLF
			HE 508 M..VS6	D.M..S 500MNLF

Dimension	Termination
	5
A	2.54
B$^{\pm0.1}$	10.30
C$^{\pm0.5}$	4.00
D$^{\pm0.1}$ 9 to 37 contacts	7.20
50 contacts	8.60
Ø E	0.63

# D–SUBMINIATURE MILITARY PRODUCTS – DM SERIES

DM SERIES HE 507

UL Recognised File E 118235

- Connectors drawn from DM series. Composed of mixed arrangements of standard signal and size 8 cavities housing, coax, power, high voltage and optical removable contacts

- Shell plating: Cadmium

- Military and Aero applications

ORDERING INFORMATION

| D | B | M | | 13 W 3 | P | 5 | 00 | M | N |

Series: D

Compulsory in compliance with HE 507

Layout of contacts: see following page

Shell Size	
E	
A	
B	
C	
D	

Termination	
Solder buckets	Blank
Straight solder spills	3
Angled solder spills	5
Wire wrap (3 levels)	4

Characterisation of Military series	M

Options 1	
Standard mounting hole (Ø = 3.10)	Blank
Float mounting	F

Contacts	
Pin	P
Socket	S

Plating	
Standard = Gold/nickel on active areas – Tin lead on termination (Blank for solder bucket termination)	00
Please consult us	Others

Options 2		
Option	Version	
	Angled Spills	Other Terminations
Blank	Plastic brackets	Not applicable
C	Without brackets	Not applicable
M	Metal brackets	Not applicable

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

LAYOUTS

MALE INSULATOR FRONT VIEW

Shell size	Layout	
E	5W1	
A	11W1	
	7W2	
	3W3	
	3V3	
B	21W1	
	17W2	
	13W3	
	9W4	
	5W5	

Shell size	Layout	
C	25W3	
	21WA4	
	27W2	
	8W8	
D	47W1	
	24W7	
	36W4	

● Standard contacts

⬤ Coaxial and power contacts

SPECIFIC DIMENSION
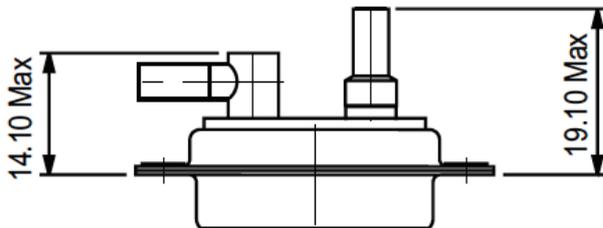
Coxial Contact
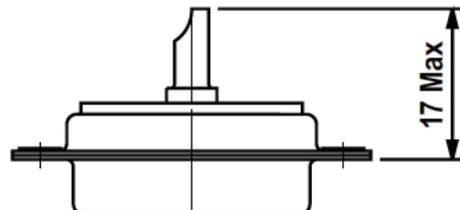
Power Contact

INODSUBMPDM0813EA4

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.

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:

DDM50S343	DAM15P832N	DAM15S032N	DAM15S332N	DAM15P032N	DAM15P332N	DAM15S532N
DBM25P032N	DBM25S532N	DBM25P532N	DBM25S032N	DCM37P532N	DCM37P332N	DCM37S032N
DCM37S332N	DDM50P332N	DDM50S332N	DCM37S732N	DCM37P732N	DAM15S732N	DAM15P732N
DBM25P732N	DBM25S732N					