

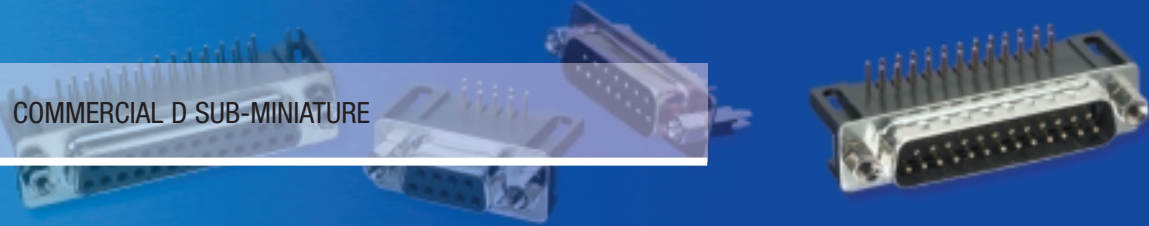


IN2CONNECT
ELECTRONIC CONNECTORS

D range connectors

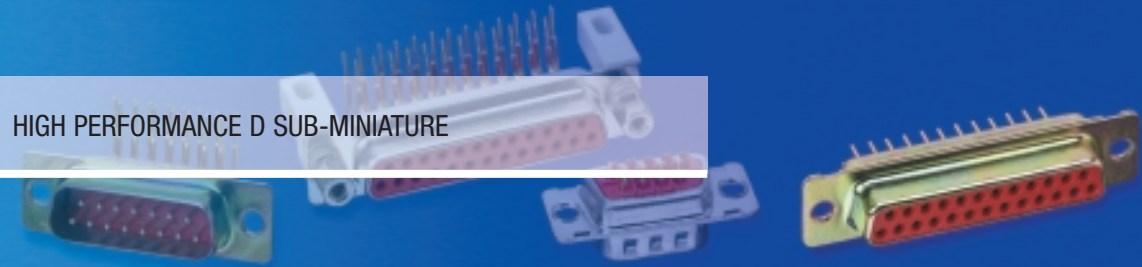
Special D

COMMERCIAL D SUB-MINIATURE



Standard D

HIGH PERFORMANCE D SUB-MINIATURE



Crimp D

FLEXIBLE AND FAST ASSEMBLY D SUB-MINIATURE



High Density D

INCREASED DENSITY D SUB-MINIATURE



D Accessories

Please note that "Budget" plating has been discontinued on all of the ITW McMurdo dsub ranges.

ITW **McMurdo**
Connectors

Special D

A range of D connectors utilising stamped and formed or turned contacts to provide a low cost option for commercial applications.

COMMERCIAL D SUB-MINIATURE



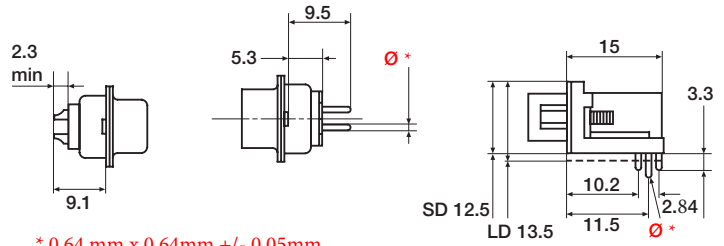
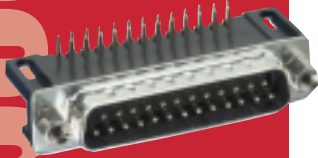
FEATURES

Choice of three termination styles – solder bucket, straight p.c. and 90° p.c.

Optional solderable boardlock features for 90° p.c. types – reduces installation time.

Threaded inserts on 90° p.c. versions as standard – accepts a wide range of mounting hardware.

Tinned and dimpled shell options – for EMI/RFI shielding.



* 0.64 mm x 0.64mm +/- 0.05mm

Solder Bucket

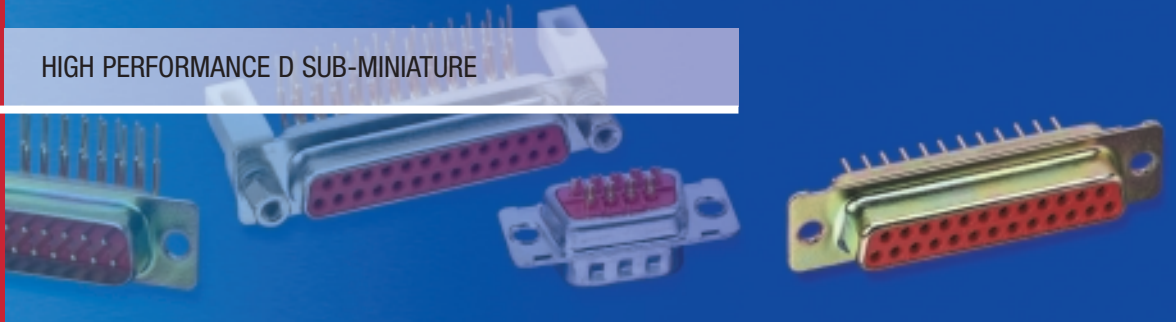
Straight P. C.

90° P. C.

Standard D

Designed for demanding industrial applications, McMurdo's D connectors offer precision turned contacts. Standard D offers a minimum of 500 cycles

HIGH PERFORMANCE D SUB-MINIATURE



FEATURES

Standard D meets the most demanding requirements.

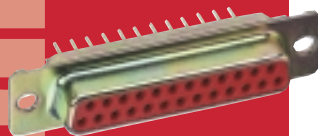
Available in five shell sizes, providing up to 50 contacts.

Tinned and dimpled shell options – for EMI/RFI shielding.

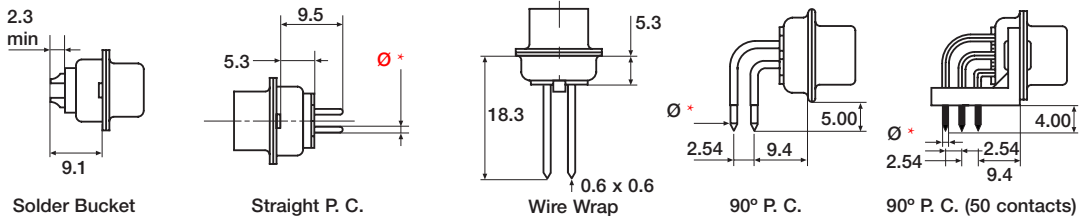
Precision turned contacts.

Solder bucket, straight p.c., 90° p.c. and wire wrapping termination styles – to suit all your applications.

Wide range of accessories – greater user flexibility.



* 0.64 mm x 0.64mm +/- 0.05mm



Solder Bucket

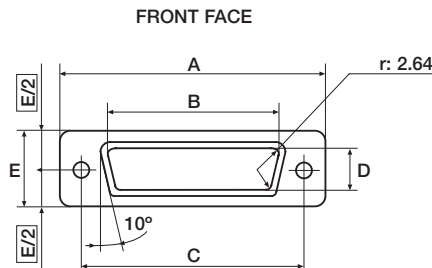
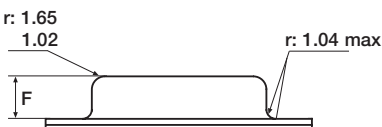
Straight P. C.

Wire Wrap

90° P. C.

90° P. C. (50 contacts)

All ranges: male



No. of contacts	A	B	C	D	E	F
9	31.19	17.04	25.12	8.48	12.93	6.12
	30.43	16.79	24.87	8.23	12.17	5.82
15	39.52	25.37	33.45	8.48	12.93	6.12
	38.76	25.12	33.20	8.23	12.17	5.82
25	53.42	39.09	47.17	8.48	12.93	5.99
	52.65	38.84	46.91	8.23	12.17	5.69
37	69.70	55.55	63.63	8.48	12.93	5.99
	68.94	55.30	63.37	8.23	12.17	5.69
50	67.34	52.93	61.24	11.33	15.75	5.99
	66.55	52.68	60.99	10.95	14.99	5.69

Crimp D

Maximum flexibility and reduced assembly costs are achieved through full or partial loading of selectively plated stamped and formed contacts.

FLEXIBLE AND FAST ASSEMBLY D SUB-MINIATURE



FEATURES

Replaceable contacts – no connector wastage.

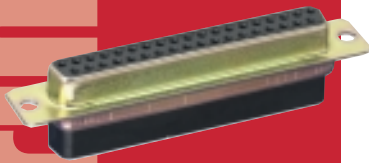
Two contact performance levels – Budget for commercial and Standard for industrial applications.

Accepts wire sizes of 20 to 28 AWG – offers greater flexibility.

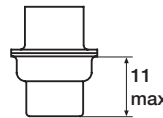
Tinned and dimpled shell options – for effective EMI/RFI shielding.

Complete selection of crimp tooling enables quick assembly.

Wire strip length 2.4 ± 0.2mm.



ASSEMBLY TOOLS AND HAND TOOLS



Crimp

Hand Crimp Tool MP600-D/HD
Insertion/extraction tool MP601-D or MP601-HD

High Density D

Increased contact density is provided in five industry standard shell sizes providing up to 78 contacts. A choice of four termination styles including crimp are available making this range one of the most versatile.

INCREASED DENSITY D SUB-MINIATURE



FEATURES

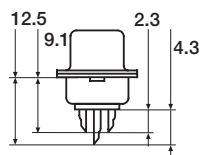
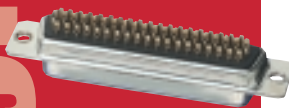
Tinned and dimpled shell as standard for enhanced electrical continuity and effective EMI/RFI shielding.

Threaded inserts – enable quick assembly of mounting hardware to 90° p.c. versions.

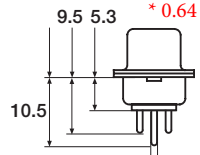
Solder bucket, straight p.c. 90° p.c. and crimp termination styles.

Optional screwlocks and solderable boardlocks fitted to 90° p.c. versions.

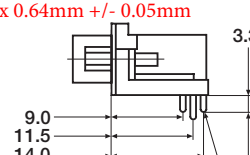
Compatible with Standard D range accessories.



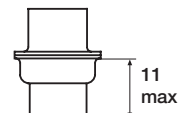
Solder Bucket



Straight P.C.

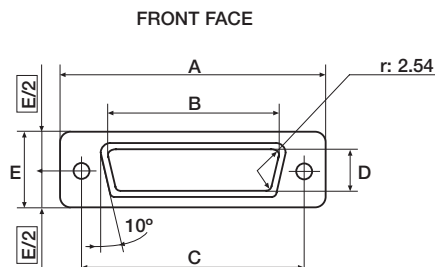
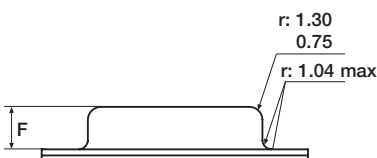


90° P.C.

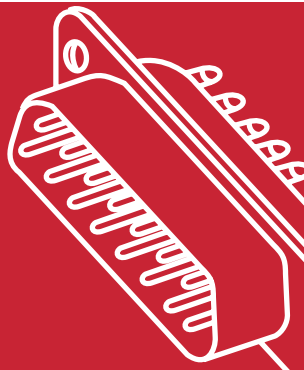


Crimp

All ranges: female



No. of contacts	A	B	C	D	E	F
9	31.19	16.46	25.12	8.03	12.93	6.30
	30, 43	16.21	24.87	7.77	12.17	6.05
15	39.52	24.79	33.45	8.03	12.93	6.30
	38.76	24.54	33.20	7.77	12.17	6.05
25	53.42	38.51	47.17	8.03	12.93	6.30
	52.65	38.25	46.91	7.77	12.17	6.05
37	69.70	54.97	63.63	8.03	12.93	6.30
	68.94	54.71	63.37	7.77	12.17	6.05
50	67.34	52.56	61.24	10.87	15.75	6.30
	66.55	52.30	60.99	10.62	14.99	6.05



Technical Data

FEATURES

- Shell
- Insulator
- Contact
- Termination – solder bucket
 - straight PC
 - 90° PC
 - CRIMP

MECHANICAL

- Operations
- Temperature range

ELECTRICAL

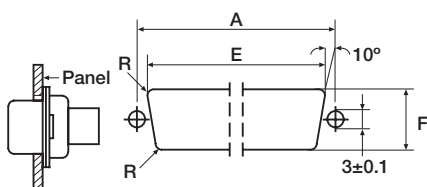
- Current – individual contact (in isolation) at 70°C
 - All contacts (simultaneously) at 70°C
- Working voltage (DC or AC PEAK)
- Proof voltage (DC or AC PEAK)
- Contact resistance
- Insulation resistance

D range connectors

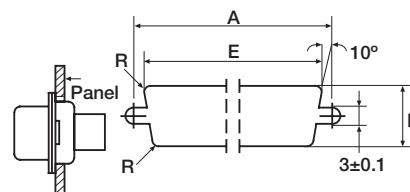
	Special D	Standard D	Crimp D	High Density D
	Tin plated steel shell			
	Thermoplastic rated UL94V-0			
	Copper alloy plated hard acid gold			
	Tin	Gold	–	Tin
	Tin	Gold	–	Tin
	Tin	Gold	–	Tin
	–	–	Gold	Tin
	100	500 (standard)	500 (standard)	100 50 or 200 crimp
	-55°C to +105°C			
	3A	6.5A	3A	3A
	2A	3.3A	2A	2A
	350V	500V	350V	300V
	1500V	1500V	1500V	1000V
	15mΩ max	10mΩ max	15mΩ max	15mΩ max
	5000mΩ min	1000mΩ min	5000mΩ min	1000mΩ min

All ranges: panel mounting options

Shell size	Contact Arrangement			Rear Panel Mounting					Front Panel Mounting						
	No of Contacts D,SD	HD	A	Std	E	Float	Std	F	R	Std	E	Float	Std	F	R
E	9	15	25.00	20.32	21.16	11.30	12.09	3.50	22.07	22.88	12.90	13.71	2.25		
A	15	26	33.32	28.70	29.49	11.30	12.09	3.50	30.40	31.22	12.90	13.71	2.25		
B	25	44	47.04	42.42	43.20	11.30	12.09	3.50	44.14	44.96	12.90	13.71	2.25		
C	37	62	63.50	58.93	59.77	11.30	12.09	3.50	60.60	61.42	12.90	13.71	2.25		
D	50	78	61.10	56.26	57.02	13.97	14.78	3.50	58.21	59.44	15.69	16.51	2.25		



Rear Panel Mounting

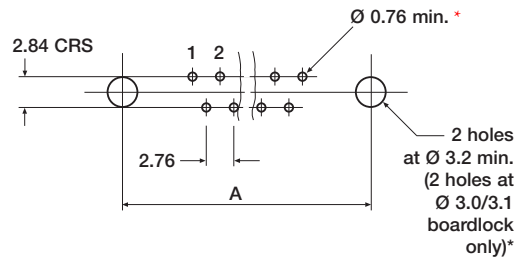


Front Panel Mounting

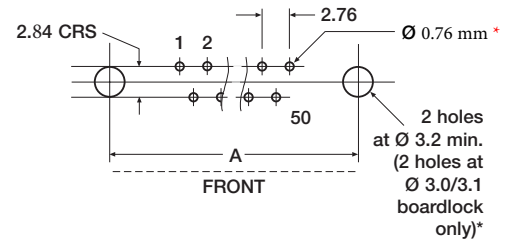
PCB layouts

Plug viewed from above,
socket viewed from below.

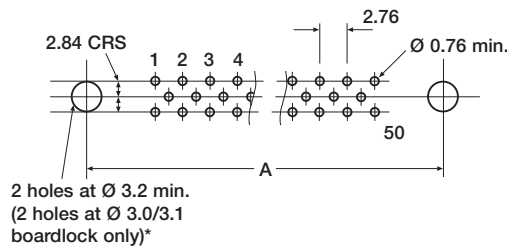
Straight p.c. 9-37 way



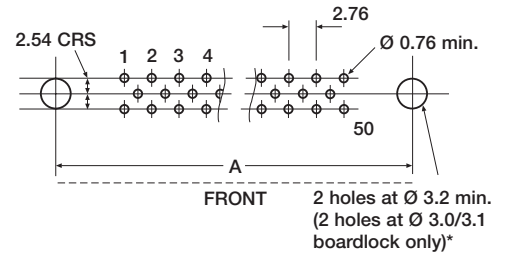
90° p.c. 9-37 way



50 way



50 way



* 1.00mm for Special D

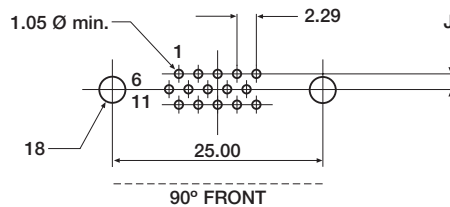
DIMENSIONS

Contact Arrangement	A crs
9	25.00
15	33.32
25	47.04
37	63.50
50	61.10

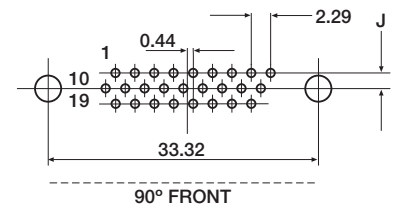
High Density D only

Plug viewed from above,
socket viewed from below.

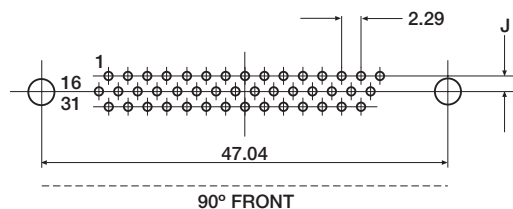
15 way High Density D



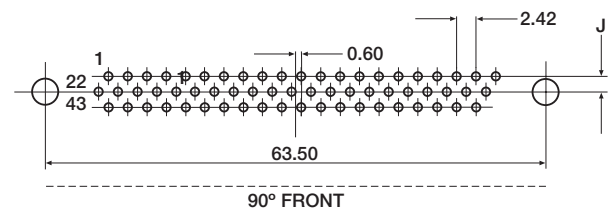
26 way High Density D



44 way High Density D



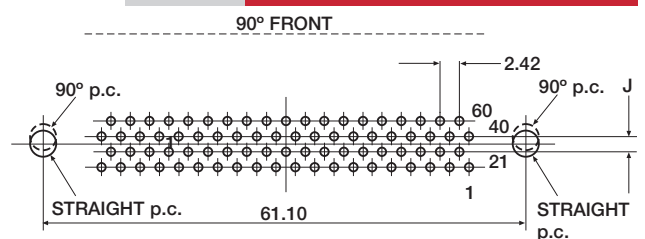
62 way High Density D



DIMENSIONS

Contact Arrangement	Straight p.c J	90° p.c J
15	1.98	2.54
26	1.98	2.54
44	1.98	2.54
62	1.98	2.54
78	2.08	2.54

78 way High Density D



ORDERING information

for CONNECTORS

Series

D – Standard/Crimp SD –
Special D
HD-High Density

Shell size

E, A, B, C and D

Mounting options/crimp select

No designator – Standard fixing holes

S – Screwlock fitted

T – Boardlocks fitted

X – Screwlocks and Boardlocks fitted

C – Crimp (contacts ordered
separately)

Shell finish

T – Tinned (socket only)

TD – Tinned and dimpled (plug only)

Performance code

No designator – standard, HD,
special, crimp

Termination type

No designator – Solder bucket
(and crimped when selector code
has been used)

N – 90° p.c.

OL – Straight p.c.

W – Wire wrapping

Contact type

P – Plug S – Socket

Contact arrangement

9, 15, 25, 37 and 50

High Density 15, 26, 44, 62 and 78

CONTACT ORDERING INFORMATION

Contact/Wire Gauge

MP642-Pin, 24/28 A.W.G (HD only)

MP643-Socket, 24/28 A.W.G (HD only)

MP647-Pin, 24/28 A.W.G (crimp D only)

MP648-Socket, 24/28 A.W.G (crimp D only)

MP649-Pin, 20/24 A.W.G (crimp D only)

MP650-Socket, 20/24 A.W.G (crimp D only)

MP642

R

06

Method of supply

No designator – in
packs of 100

R – 10,000 on a reel

Performance Code

High Density

05-Pin, 200 operations

06-Pin, 50 operations

15-Socket, 200 operations

16-Socket, 50 operations

Crimp D

45-Pin, standard 500 operations

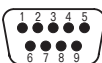
46-Pin, budget 300 operations

55-Socket, standard 500 operations

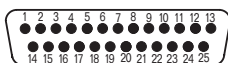
56-Socket, budget 300 operations

CONTACT ARRANGEMENT (viewed from mating face of male connector)

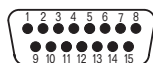
Special, Standard and Crimp D



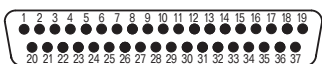
E - 9 contacts



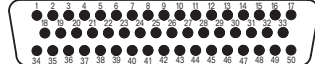
B - 25 contacts



A - 15 contacts



C - 37 contacts

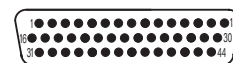


D - 50 contacts

High Density D



E - 15 contacts



B - 44 contacts



A - 26 contacts



C - 62 contacts



D - 78 contacts

Accessories

A range of accessories
are available including
automatic and hand
crimp tools, insertion
and extraction tools –
ask our sales office for
details.

Due to our policy of continuous product
development, ITW McMurdo Connectors
retain the right to change the specification at
any time without prior notice. Designed &
printed in the UK.

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Fax: +44 (0)1962 773104

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ITW **McMurdo**
Connectors