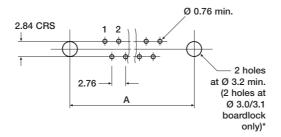
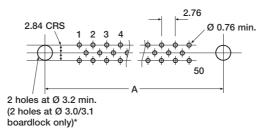
PCB layouts

Plug viewed from above, socket viewed from below.

Straight p.c. 9-37 way

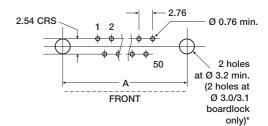


50 way



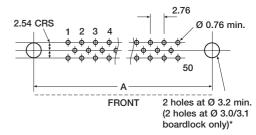
DIMENSIONS

Contact Arrangement	A crs
9	25.00
15	33.32
25	47.04
37	63.50
50	41 10



50 way

90° p.c. 9-37 way

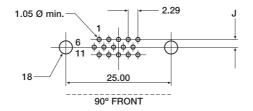


*Special D only

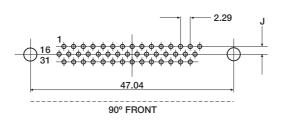
High Density D only

Plug viewed from above, socket viewed from below.

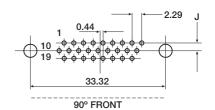
15 way **High Density D**



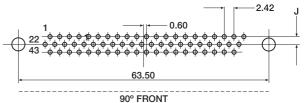
44 way **High Density D**



High Density D 26 way



62 way **High Density D**



High Density D

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

2.08

2.54

78

DIMENSIONS

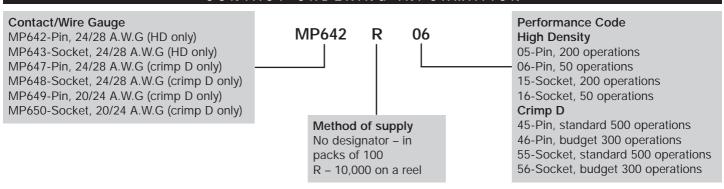
2.42 90° p.c. STRAIGHT p.c. **STRAIGHT** 61.10

78 way

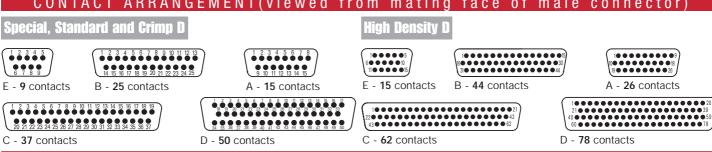
ORDERING information

for CONNECTORS Shell finish **Series** No designator - Zinc/yellow D - Standard/Budget/Crimp D В X 25 P N В T D passivate SD - Special D T – Tinned (socket only) LD - Special D 90° p.c. alternative TD – Tinned and dimpled (plug only) **HD-High Density** Performance code Shell size No designator - standard, HD, E. A. B. C and D special, crimp Mounting options/crimp select B - Budget No designator - Standard fixing holes B - 90° brackets and stabiliser rivetted (fitted on Termination type 50 and 90° p.c. as standard) No designator - Solder bucket F - Float mount for rear panel mounting (and crimped when selector code R - Reverse float mounting has been used) G - MP501 rivetted $N - 90^{\circ} p.c.$ H - 4-40 UNC threaded inserts fitted OL - Straight p.c. K - MP625 and screwlock fitted W - Wire wrapping L - MP501-2 screw mounted N - 90° brackets and stabiliser with screwlock Contact type fitted P - Plug S - Socket S - Screwlock fitted

CONTACT ORDERING



CONTACT ARRANGEMENT(viewed from mating face of male connector)



Accessories

T - Boardlocks fitted

X - Screwlocks and Boardlocks fitted

C-Crimp (contacts ordered separately)

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.

ITW McMurdo Connectors

Division of ITW Limited Norway Road Hilsea Portsmouth PO₃ 5HT United Kingdom

Tel: 02392 656200 Fax: 02392 666352

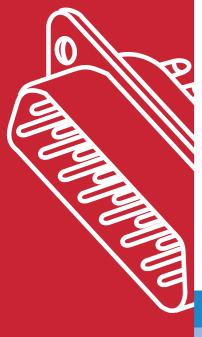
e-mail: info@itwmcmurdo.co.uk www.itwmcmurdo.co.uk



Contact arrangement

High Density 15, 26, 44, 62 and 78

9, 15, 25, 37 and 50



Drangen & Ctor's

Special D

Standard D

Crimp D

High Density D

D Accessories

HIGH PERFORMANCE D SUB-MINIATURE

COMMERCIAL D SUB-MINIATURE

FLEXIBLE AND FAST ASSEMBLY D SUB-MINIATURE

INCREASED DENSITY D SUB-MINIATURE



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





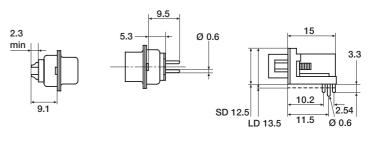
FEATURES

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

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.

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



Solder Bucket

Straight P. C.

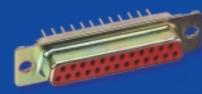
90° P. C.

Standard D

Designed for demanding industrial applications, McMurdo's D connectors offer precision turned contacts in two performance levels:
Standard D offers a minimum of 500 operations. Budget D has been developed for harsh industrial applications offering 300 operations.







FEATURES

Standard D meets the most demanding requirements.

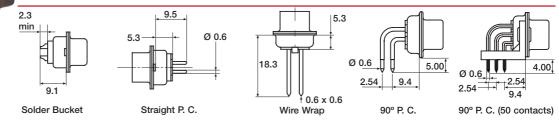
Precision turned contacts.

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

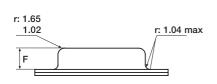
Solder bucket, straight p.c., 90° p.c. and wire wrapping termination styles – to suit all your applications.

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

Wide range of accessories – greater user flexibility.



All ranges: male



A r: 2.64 B D 10°

FRONT FACE

C

No.of contacts	Α	В	С	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	



Drangen ectors

FEATURES

Shell Insulator

Contact

Termination – solder bucket

straight PC90° 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)

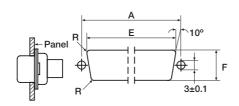
Contact resistance

Insulation resistance

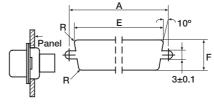
Special D	Standard D	Crimp D	High Density D					
	Steel plated zinc/yellow passivate or tin							
	Thermoplastic	rated UL94V-0						
	Copper alloy plate	ed hard acid gold						
Tin	Gold	-	Tin					
Tin	Gold	-	Tin					
Tin	Gold	-	Tin					
-	-	Tin or Gold	Tin					
100	300 (budget) 500 (standard)	300 (budget) 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					
15m Ω max	10mΩ max	15m Ω max	15mΩ max					
5000mΩ min	1000m $Ω$ min	5000m $Ω$ min	1000mΩ min					

All ranges: panel mounting options

	(Contact Arra	angeme	ent	t Rear Panel Mounting					Front Panel Mounting				
	Shell size	No of Co D,SD,LD	ntacts HD	А	Std	Float	Std	Float	R	Std I	Float	Std	Float	R
	Е	9	15	25.00	20.32	21.16	11.30	12.09	3.50	22.07	22.88	12.90	13.71	2.25
	Α	15	26	33.32	28.70	29.49	11.30	12.09	3.50	30.40	31.22	12.90	13.71	2.25
ĺ	В	25	44	47.04	42.42	43.20	11.30	12.09	3.50	44.14	44.96	12.90	13.71	2.25
ĺ	С	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

Crimp D

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





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.



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



Crimp

FEATURES

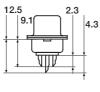
Tinned and dimpled shell as standard for enhanced electrical continuity and effective EMI/RFI shielding.

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

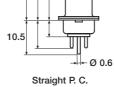
Solder bucket, straight p.c. 90° p.c. and crimp termination styles.

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

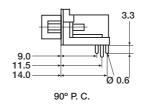
Compatible with Standard D range accessories.



Solder Bucket



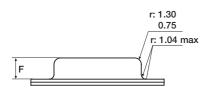
9.5 5.3



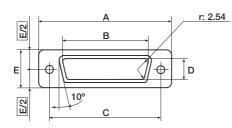


Crimp

All ranges: female



FRONT FACE



No.of contacts	А	В	С	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