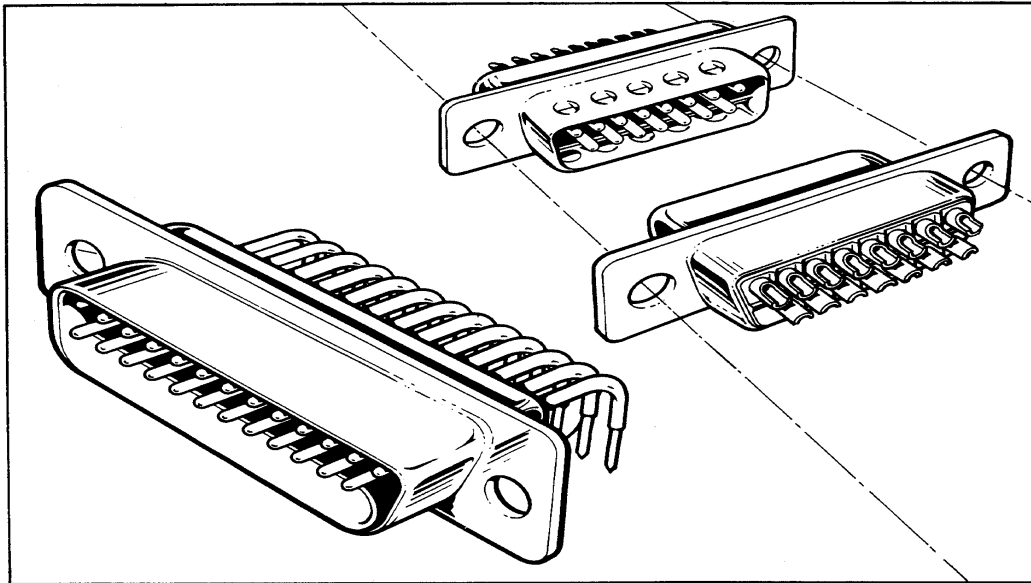


IN2CONNECT

In2Connect

## Industrial D

'Standard', machined contact. D Connectors



The dimensions of the Subminiature - D - Connectors are according to MIL-C-24308 and are compatible with all Sub - D - Connectors on the market. The high number of poles or a small space make these connectors especially suitable for office machines, computers, telecommunication equipment as well as for industrial control and data processing equipment.

Hoods, locking devices and additional accessories give the opportunity of a broad field of application of this worldwide introduced connection system.

The trapezium shaped shell provides protection against mechanical impact, EMI shielding and polarization. Special versions, e.g., partly inserted contacts or 180° degree turned, are available on special request.

### TECHNICAL DATA

#### MECHANICAL

Termination: Hand Solder  
Dip Solder straight  
Dip Solder 90°C  
Wire Wrap 0.6 × 0.6mm

Polarization: by trapezoidal shell

Coupling: by friction, locking by special accessories

Withdrawal force: ca. 0.5 N per contact

Material and Finishes: Shell steel with yellow passivation over zinc plate (standard), steel nickel plated and tinned

Insulators: Two part mouldings, polyester, glass fibre re-inforced, flame retardend according UL 94 VO

Contacts: Copper alloy gold plated over nickel

Insertion Cycles: 500

#### ELECTRICAL

Creeping Current: KB 220 according to DIN 53480

Stability: 5A per contact with 20AWG cable

Working Current: 300V RMS

Working Voltages: 1000V RMS

Test Voltage: below  $5 \times 10^{-3} \Omega$

Contact Resistance: over 10M $\Omega$

Insulation Resistance: minus 55°C to 125°C

Temperature Range:

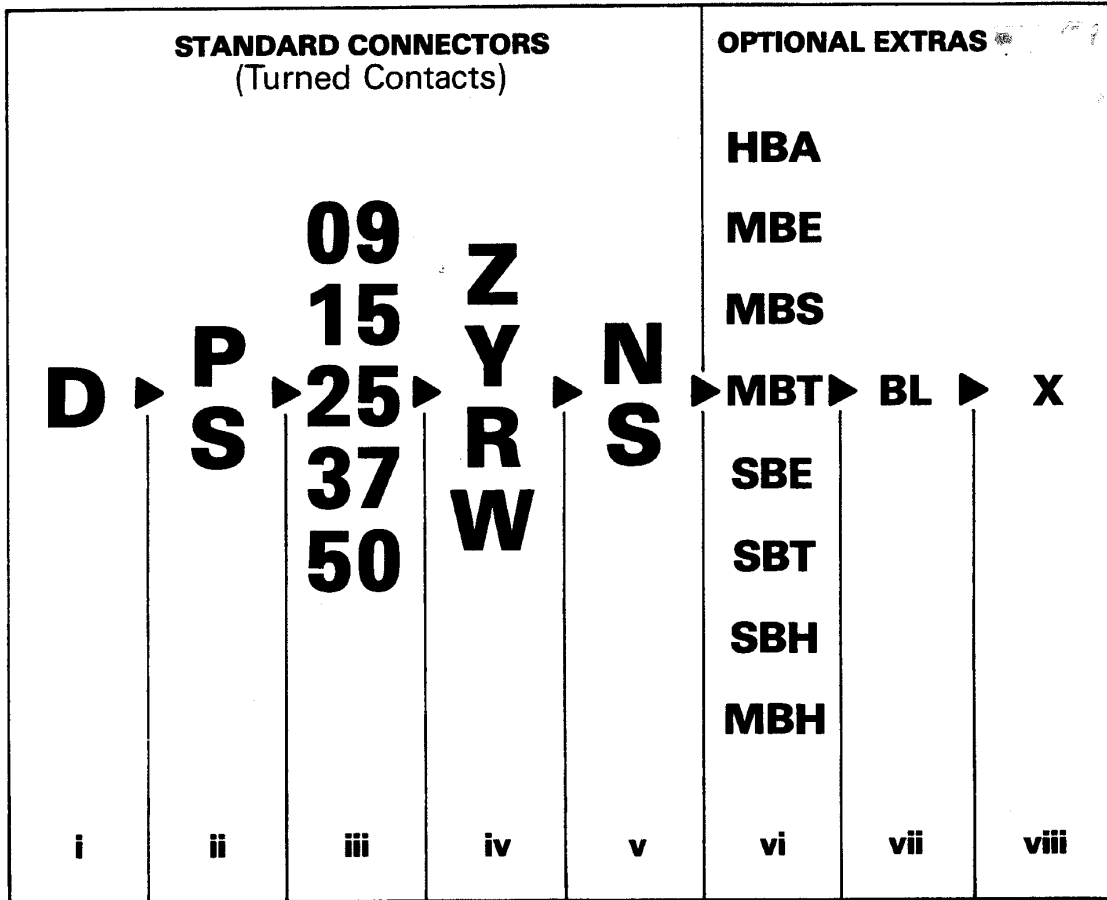
### IN2CONNECT

In2Connect  
PO Box 66  
Alresford  
Hampshire, SO24 0WX, UK

Phone: +44 7977 040592  
Fax: +44 1962 736726  
Email: in2connect@aol.com

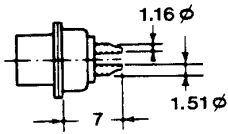
*In2connecting people!*

## PART NUMBERS



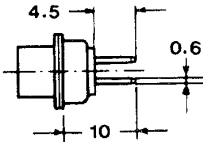
- i 'D' Connector**
- ii Plug or socket P or S**
- iii Numbers of ways**
- iv Type of termination**
- v Normal zinc shells or screened tin/tin and dimple N or S**
- vi Optional extras**
- vii Board locks**
- viii See drawing**

## TERMINATION TYPES/DIMENSIONS/MOUNTINGS



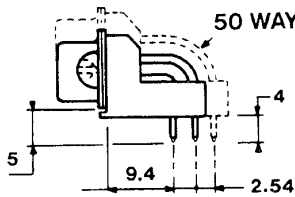
Solder bucket for hand soldering,  
diameter 1.0mm

**TYPE Z**



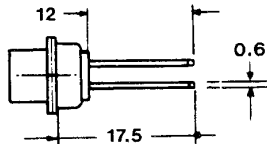
Straight pins for flow soldering  
to PCB, pin diameter 0.6mm

**TYPE Y**



90° right angled pins for flow  
soldering to PCB, pin diameter 0.6mm

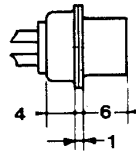
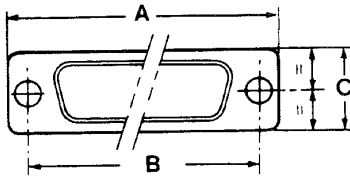
**TYPE R**



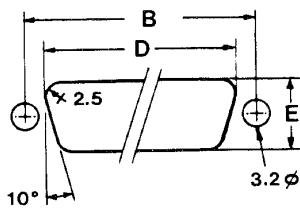
Wire wrap, terminals 0.6mm square,  
length 12.0mm

**TYPE W**

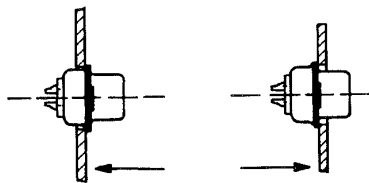
### SHELL DIMENSIONS



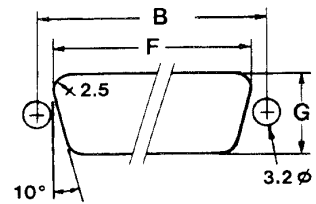
### PANEL CUTOUT



Plug



Panel



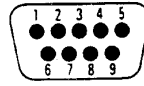
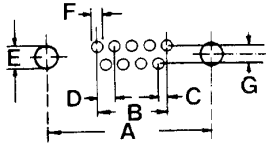
Socket

	A	B	C	D	E	F	G
9 WAY	30.8	25.0	12.4	22.2	13.0	20.5	11.4
15 WAY	39.2	33.3	12.4	30.5	13.0	28.8	11.4
25 WAY	53.1	47.0	12.4	44.3	13.0	42.5	11.4
37 WAY	69.5	63.5	12.4	60.7	13.0	59.1	11.4
50 WAY	67	61.1	15.4	58.3	13.0	56.3	14.1

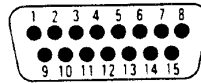
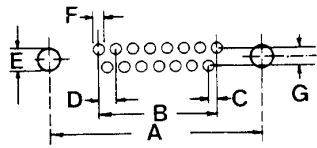
Dimension - mm.



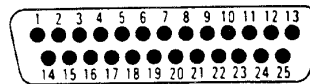
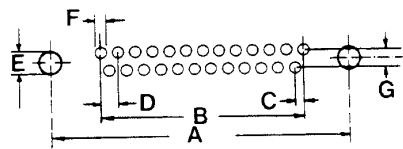
Face view of plug - Rear view of socket.



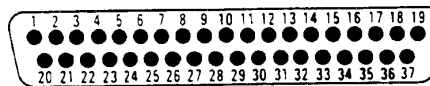
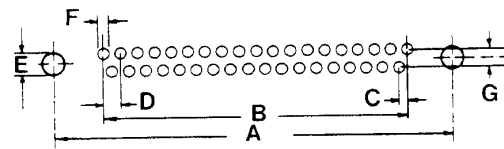
**9 WAY**



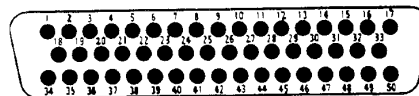
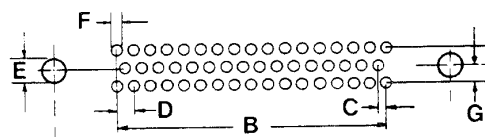
**15 WAY**



**25 WAY**



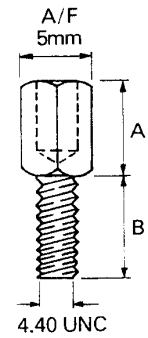
**37 WAY**



**50 WAY**

	A ± 0.1	B	C	D	E min.	F	G PCB STRAIGHT	PCB 90°
9 WAY	25.0	10.96	1.37	2.74	3.2	0.9	2.84	2.54
15 WAY	33.3	19.18	1.37	2.74	3.2	0.9	2.84	2.54
25 WAY	47.05	33.12	1.38	2.76	3.2	0.9	2.84	2.54
37 WAY	63.5	49.68	1.38	2.76	3.2	0.9	2.84	2.54
50 WAY	—	44.16	1.38	2.76	3.2	0.9	2.84	2.54

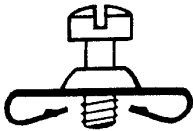
Dimension - mm.



Female screwlock in steel supplied in pairs. Kit includes 2 posts, 2 spring washers, 4 plain washers, 2 nuts. Inner and outer threads 4.40 UNC (Equivalent to 20418 - 2). Special threads and lengths available.

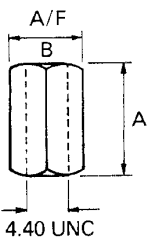
DIMENSIONS mm

A	B	PART No.
5	7.9	<b>TB 125</b>
5	14.5	<b>TB 195</b>



Male screwlock in steel supplied in pairs. Thread 4.40 UNC (Equivalent to 20419 - 2).

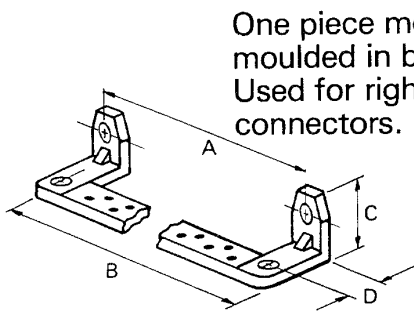
PART No.  
**TM**



Threaded spacer or stand-off 4.40 UNC. Suitable for cable-cable and straight printed circuit mounting.

DIMENSIONS mm

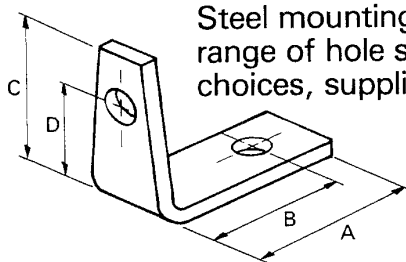
A	B	PART No.
6	5	<b>TC</b>



One piece mounting bracket, moulded in black glass-filled nylon. Used for right angled, printed circuit connectors.

SHELL DIMENSIONS mm

SIZE	A	B	C	D	PART No.
9	25.0	30.9	7.4	10.7	<b>MB 9</b>
15	33.3	39.2	7.4	10.7	<b>MB 15</b>
25	47.0	53.0	7.4	10.7	<b>MB 25</b>
37	63.5	69.5	7.4	10.7	<b>MB 37</b>
50	61.1	67.1	8.8	12.0	<b>MB 50</b>

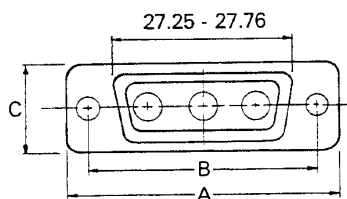


Steel mounting brackets with a range of hole sizes and thread choices, supplied in pairs.

DIMENSIONS mm

A	B	C	D
16	11	13	7

TOP HOLE	BOTTOM HOLE	PART No.
4mm clearance	Tapped M3	<b>SBA</b>
4.40 UNC thread	Tapped M3	<b>SBB</b>
Tapped M3	Tapped M3	<b>SBC</b>
4.40 UNC thread	3mm clearance	<b>SBD</b>
4mm clearance	3mm clearance	<b>SBE</b>



15 way sub-D-connector shell with moulded insulator for removable miniature co-axials, plug and socket.

DIMENSIONS mm

	A	B	C	PART No.
MIN	38.76	33.20	12.17	<b>3W3P</b>
MAX	39.52	33.45	12.93	<b>3W3S</b>