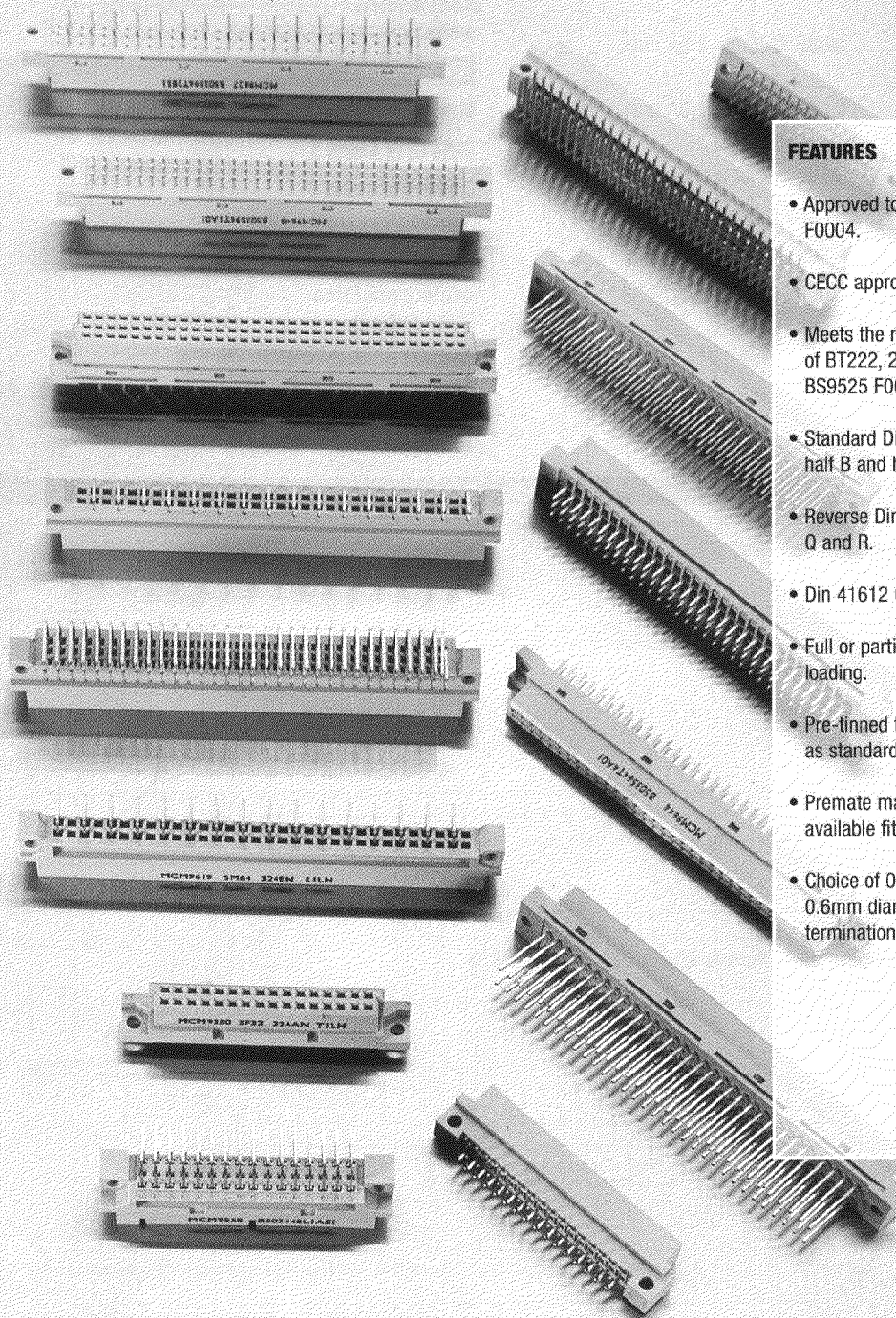
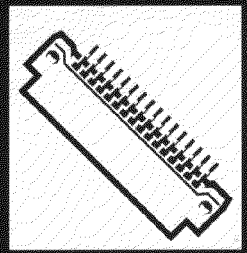


# DIN 41612

## Two Part PCB Edge Connector



### FEATURES

- Approved to BS9525 F0004.
- CECC approval pending.
- Meets the requirements of BT222, 222T and BS9525 F0011.
- Standard Din styles B,C, half B and half C.
- Reverse Din styles Q and R.
- Din 41612 Class 1,2,3.
- Full or partial contact loading.
- Pre-tinned terminations as standard.
- Premate male contacts available fitted in row a.
- Choice of 0.86mm and 0.6mm diameter terminations.

**McMurdo**

# TECHNICAL DATA - STANDARD & REVERSE

## Materials

<b>Insulator</b>	Glass filled thermoplastic rated UL94V-0
<b>Contact</b>	Copper alloy plated hard acid gold
<b>Termination</b>	Tin lead

## Electrical

<b>Current</b>	
<b>Individual contact (in isolation)</b>	at 85°C Tamb. 1.5A max.
<b>All contacts (simultaneously)</b>	at 85°C Tamb. 1.0A max.
<b>Working Voltage</b>	350V d.c. or a.c. peak
<b>Proof Voltage</b>	1050V d.c. or a.c. peak
<b>Contact Resistance</b>	20mΩ max.
<b>Insulation Resistance</b>	100MΩ min.

## Environmental

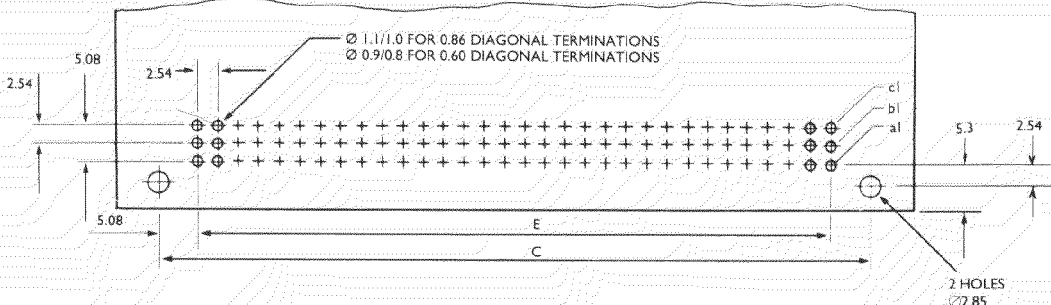
<b>Climatic category</b>	55/125/56
<b>Vibration severity</b>	10Hz to 2000 KHz, 0.75mm/98m/s <sup>2</sup> (10g <sub>n</sub> ) duration 6h.
<b>Bump severity</b>	390m/s <sup>2</sup> (40g <sub>n</sub> ), 4000 ± 10 bumps.
<b>Shock severity</b>	490m/s <sup>2</sup> (50g <sub>n</sub> ), for 11ms.
<b>Acceleration severity</b>	490m/s <sup>2</sup> (50g <sub>n</sub> )

## Mechanical

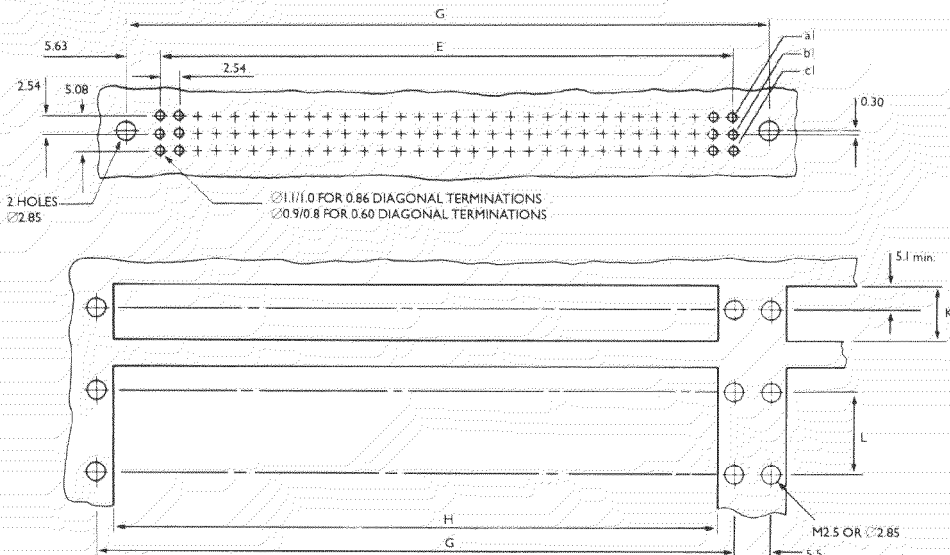
<b>Mechanical operations</b>	
<b>DIN41612 Class 1</b>	500
<b>DIN41612 Class 2</b>	400
<b>DIN41612 Class 3</b>	50
<b>Insertion and withdrawal force (per contact)</b>	0.94N max. 0.19N min.
<b>Contact holding force</b>	0.15N

## Mounting Details

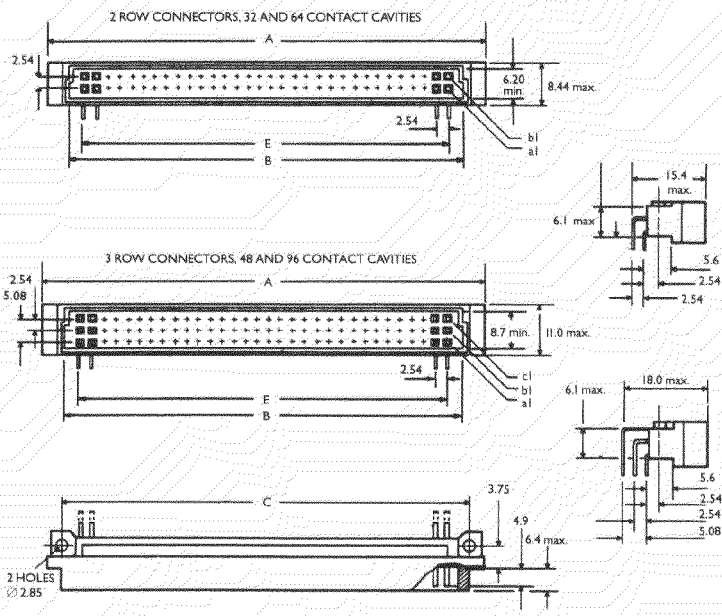
### Standard male/reverse female 90° p.c.



### Standard female/reverse male terminations

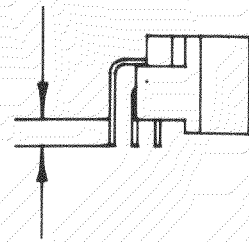


Free connector with male contacts



Male Termination

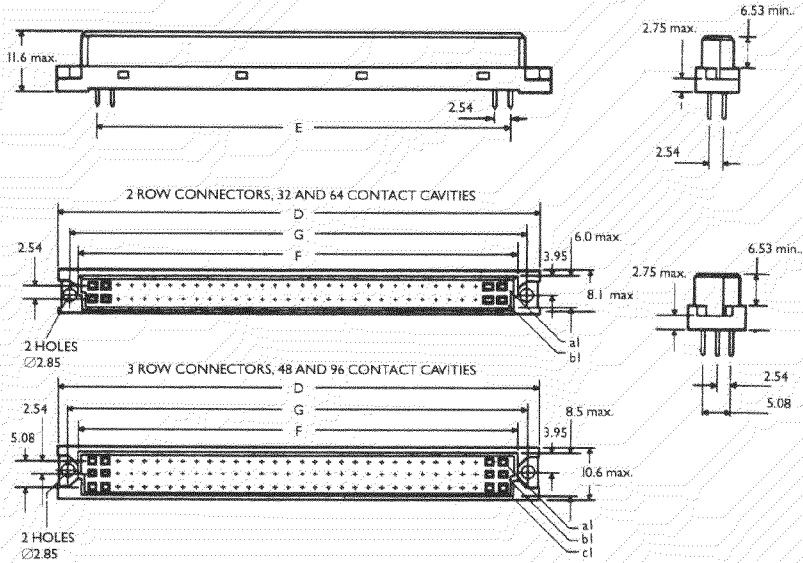
90° p.c.



L1 etc.

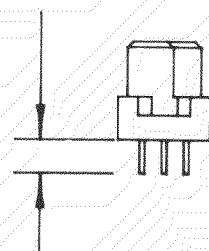
.86/.76 diag.		.60/.50 diag.	
L1	3.50/2.50	L4	3.50/2.50
L2	5.00/4.00	L5	5.00/4.00
L3	14.00/13.00	L6	11.00/10.00

Fixed connector with female contacts



Female Termination

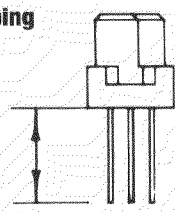
Straight p.c.



T1 etc.

.86/.76 diag.		.60/.50 diag.	
T1	3.50/2.50	T4	5.00/4.00
T2	5.00/4.00	T5	11.00/10.00
T3	3.50/2.50	T7	6.85/5.85

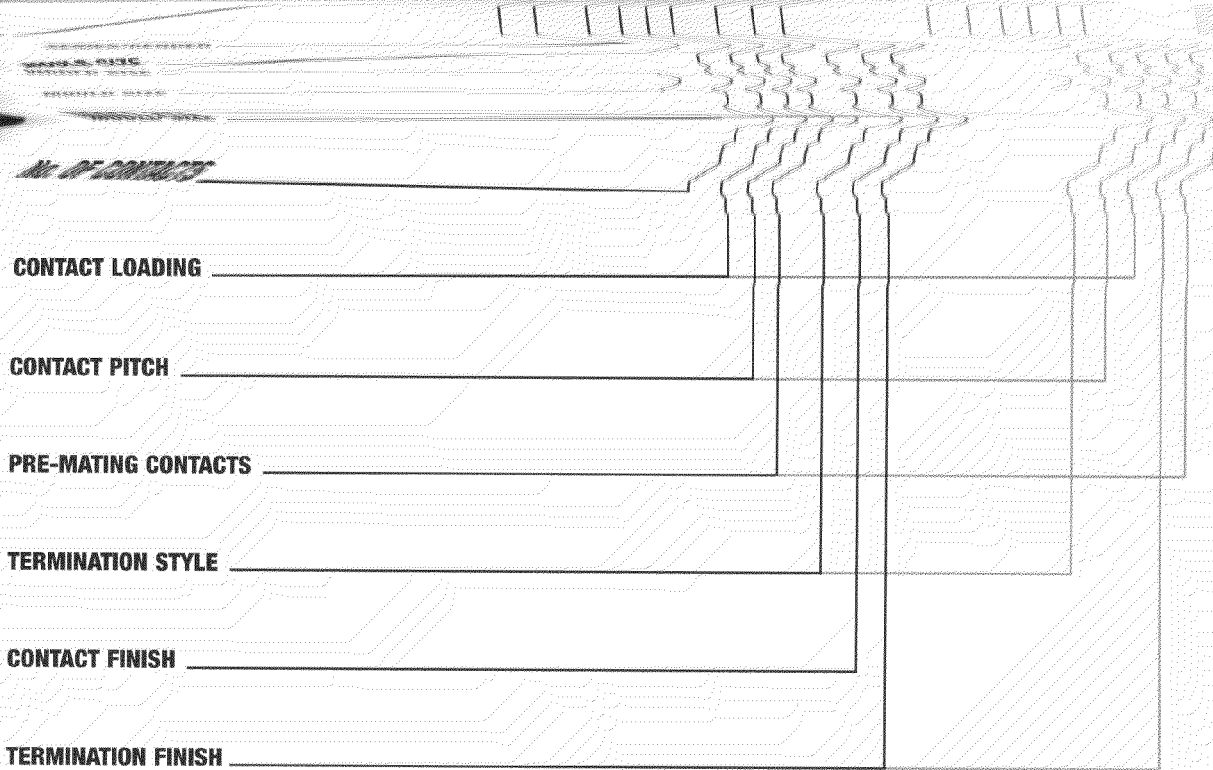
Wire wrapping



W1 etc.

.86/.76 diag.	
W1	14.00/13.00
W2	18.00/17.00

Mould Size	A max.	B max.	C	D max.	E	E max.	G	H min	K	L
32 Cavity	53.98	44.65	48.26	54.86	38.10	44.27	50.00	44.40	8.30	10.20
48 Cavity	53.98	44.65	48.26	54.86	38.10	44.27	50.00	44.40	10.80	12.70
64 Cavity	93.98	85.30	88.90	94.87	78.74	84.86	90.00	85.00	8.30	10.20
96 Cavity	93.98	85.30	88.90	94.87	78.74	84.86	90.00	85.00	10.80	12.70



**BS Style**

B5034 - BS9525 F0004 Free male  
 B5035 - BS9525 F0004 Fixed female

**Contact Pitch**

A - 2.54mm  
 E - 5.08mm

**Series Gender**

SM - Standard male  
 SF - Standard female

**Pre-Mating Contacts**

N - None fitted  
 No designator (BS styles) - None fitted  
 P - Fitted positions a1 & a16 (32 & 48 mould size)  
 Fitted positions a1 & a32 (64 & 96 mould size)

**Mould Size**

32 - 2 rows of 16 (half B)  
 64 - 2 rows of 32 (B)  
 48 - 3 rows of 16 (half C)  
 96 - 3 rows of 32 (C)

**Termination**

L1, L2, L3, L4, L5 & L6 - Male contacts  
 T1, T2, T3, T4, T5, T7, W1, & W2 - Female contacts

**No. of Contacts**

8, 16, 24, 32, 48, 64 & 96

**Contact Finish**

G - Class 1  
 L - Class 2  
 Q - Class 3

**Contact Loading**

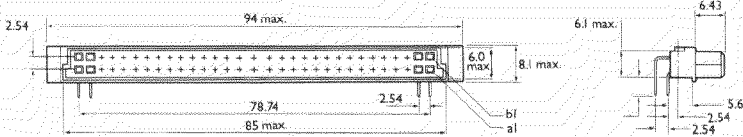
- 1 - Row a only
- 2 - Row b only
- 3 - Row c only
- 4 - Rows a & b
- 5 - Rows a & c
- 6 - Rows b & c
- 7 - Rows a, b & c
- 0 - All rows (BS style)
- 9 - Special loading

**Termination Finish**

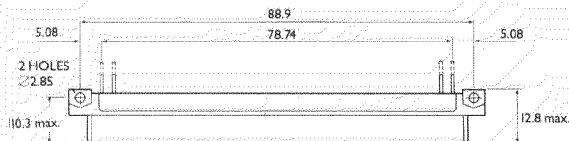
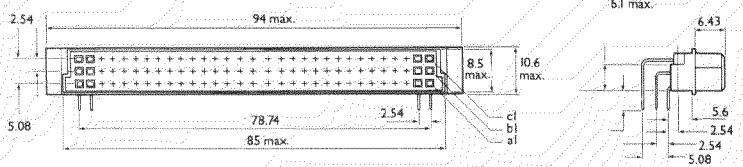
H - Tinned  
 1 - Tinned (BS styles)

Free Connector With Female Contacts

2 ROW CONNECTORS, 64 CONTACT CAVITIES

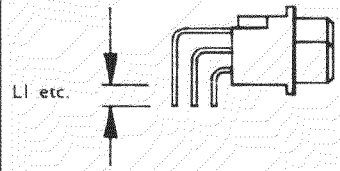


3 ROW CONNECTORS, 96 CONTACT CAVITIES



Female Termination

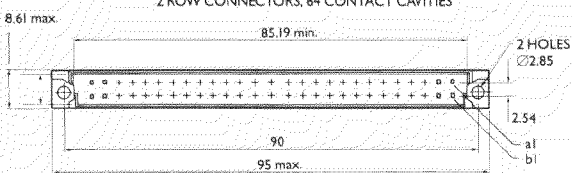
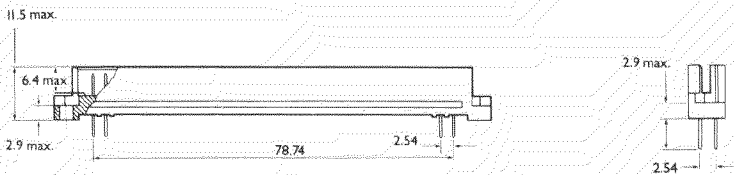
90° p.c.



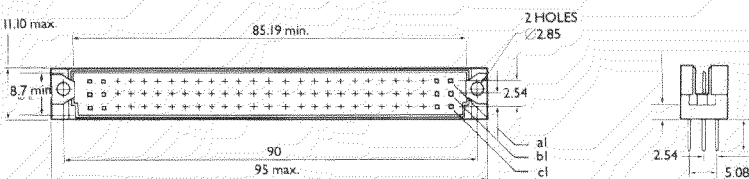
	.86/.79 diag.	.60/.50 diag.
L1	3.8/2.5	L4 3.8/2.5
L2	4.8/4.0	L5 4.8/4.0
L3	14.5/13.0	L6 11.0/10.0

Fixed Connector With Male Contacts

2 ROW CONNECTORS, 64 CONTACT CAVITIES

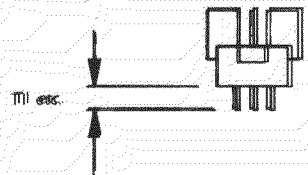


3 ROW CONNECTORS, 96 CONTACT CAVITIES



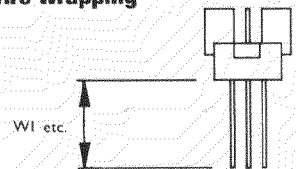
Male Termination

Straight p.c.



	.86/.76 diag.	.60/.50 diag.
T1	3.2/2.5	T5 3.2/2.5
T2	4.5/4.0	T6 4.5/4.0
		T8 10.5/10.0

Wire wrapping



	.86/.76 diag.	
W1	14.00/13.00	
W2	18.00/17.00	



# ORDERING INFORMATION - REVERSE

RIM 96 - 64 5 A P - T1 G H

SERIES/GENDER

MOULD SIZE

No. OF CONTACTS

CONTACT LOADING

CONTACT PITCH

PRE-MATING CONTACTS

TERMINATION STYLE

CONTACT FINISH

TERMINATION FINISH

## Series Gender

QIF - Reverse DIN 2 row female  
QIM - Reverse DIN 2 row male  
RIF - Reverse DIN 3 row female  
RIM - Reverse DIN 3 row male

## Mould Size

64 - 2 rows of 32 (Q)  
96 - 3 rows of 32 (R)

## No. of Contacts

16, 32, 48, 64 & 96

## Contact Loading

1 - Row a only  
2 - Row b only  
3 - Row c only  
4 - Rows a & b  
5 - Rows a & c  
6 - Rows b & c  
7 - Rows a, b & c  
8 - Special loading

## Contact Pitch

A - 2.54mm  
E - 5.08mm

## Pre-Mating Contacts

N - None fitted  
P - Fitted positions a1 & a16 (32 & 48 mould size)  
Fitted positions a1 & a32 (64 & 96 mould size)

## Termination

T1, T2, T5, T6, T8, W1, W2 - Male contacts  
L1, L2, L3, L4, L5, L6 - Female contacts

## Contact Finish

G - Class 1  
L - Class 2  
Q - Class 3

## Termination Finish

H - Tinned



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As we constantly strive to improve McMurdo products, all specifications are subject to change without notice.