

MICRONECTOR 300

High Density 2 mm Pitch Connectors



FEATURES

- 2mm pitch.
- Small footprint for increased packing density.
- Optional Jackscrews will fit either male or female.
- Sizes from 27 to 78 way.
- Male straight p.c., 90° p.c. and crimp terminations.
- Female straight p.c., flexi circuit, and crimp terminations.
- Male panel mount variant.

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TECHNICAL DATA

Materials

Insulator	Glass filled thermoplastic UL94V-0
Contact	Copper alloy plated hard acid gold
Termination	Hard acid gold or tin/lead
Jackscrews	Stainless steel

Electrical

Current

Individual contacts (in insulation) at 25°C Tamb. 3.3A max.
at 85°C Tamb. 2.6A max.

All contacts (simultaneously) at 25°C Tamb. 3.0A max.
at 85°C Tamb. 2.2A max.

Working Voltage 120V d.c. or a.c. peak

Proof Voltage 360V d.c. or a.c. peak

Contact Resistance (initially) 10mΩ max.

Contact Resistance (after conditioning) 13mΩ max.

Insulation Resistance (initially) 1000MΩ min.

Insulation Resistance (after conditioning) 100MΩ min.

Mechanical

Mechanical operations 500

Insertion and withdrawal force (per contact pair) 0.8N max., 0.2N min.

Contact retention 10N min.

Crimp barrel accommodation 22 A.W.G. - 28 A.W.G. to BS G 210 Type A

Environmental

Climatic category 55/125/56

Vibration severity General 10Hz, 2000 Hz
0.75mm/98m/s² (10g_n) duration 6h

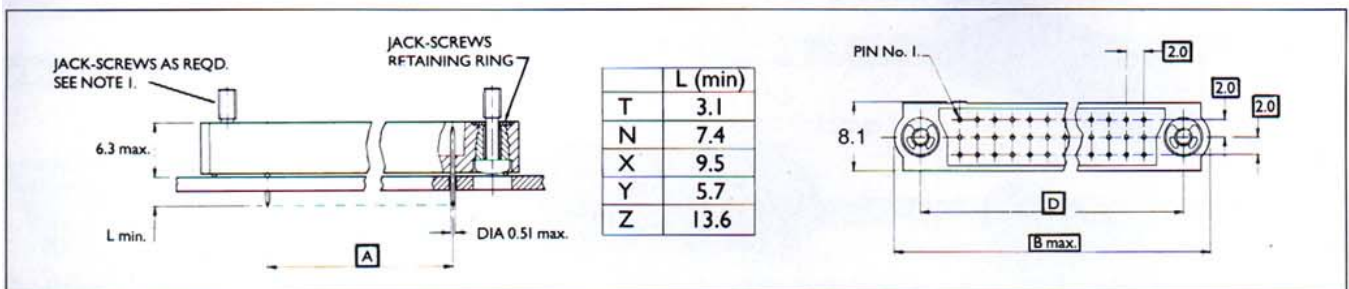
Vibration severity Additional 13.3Hz to 2000Hz random with superimposed sinusoids, duration 15 min each of 4 planes.
No intermittencies measured when using an H.S.L.I. (High Speed Logic Interrupt) detector with a trip threshold of 2ns

Bump severity 390m/s² (40g_n) 4000 ± 10 bumps

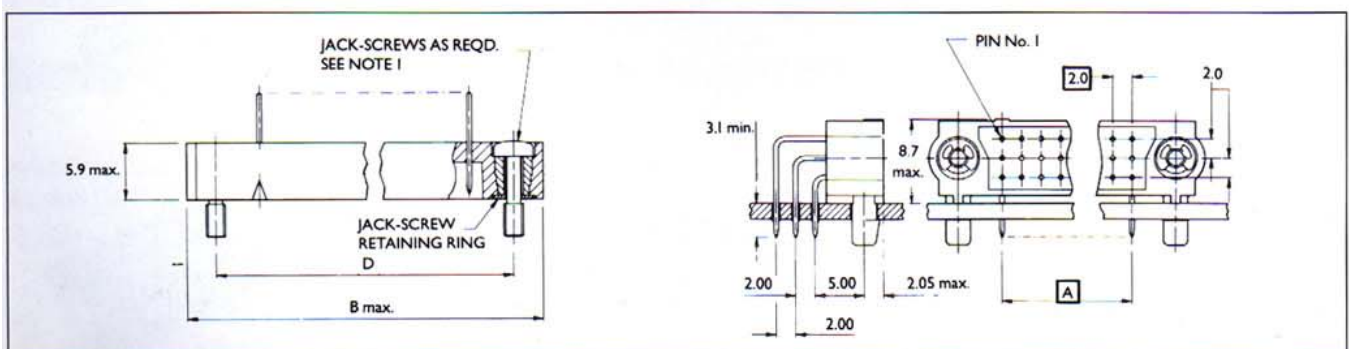
Shock severity 981m/s² (100g_n), for 6ms

Acceleration severity 490m/s² (50g_n)

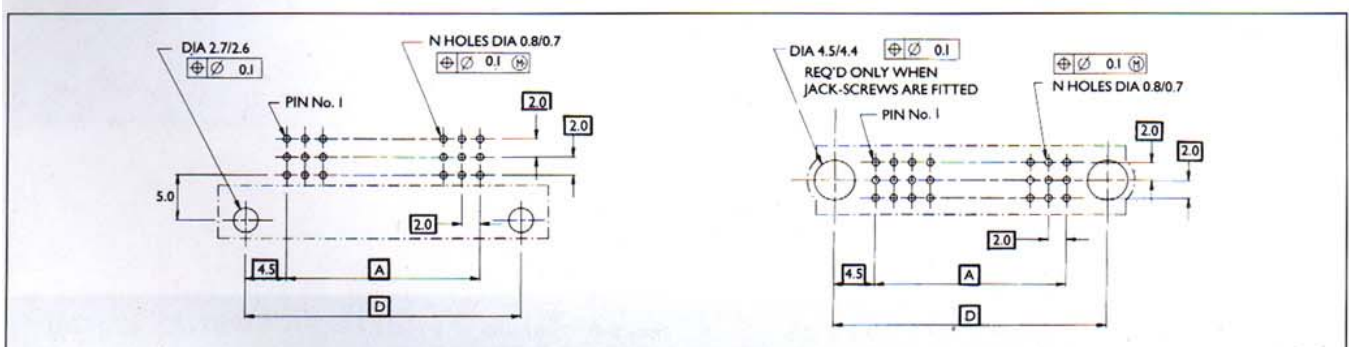
Male Straight p.c. Termination Type T, N, X, Y & Z



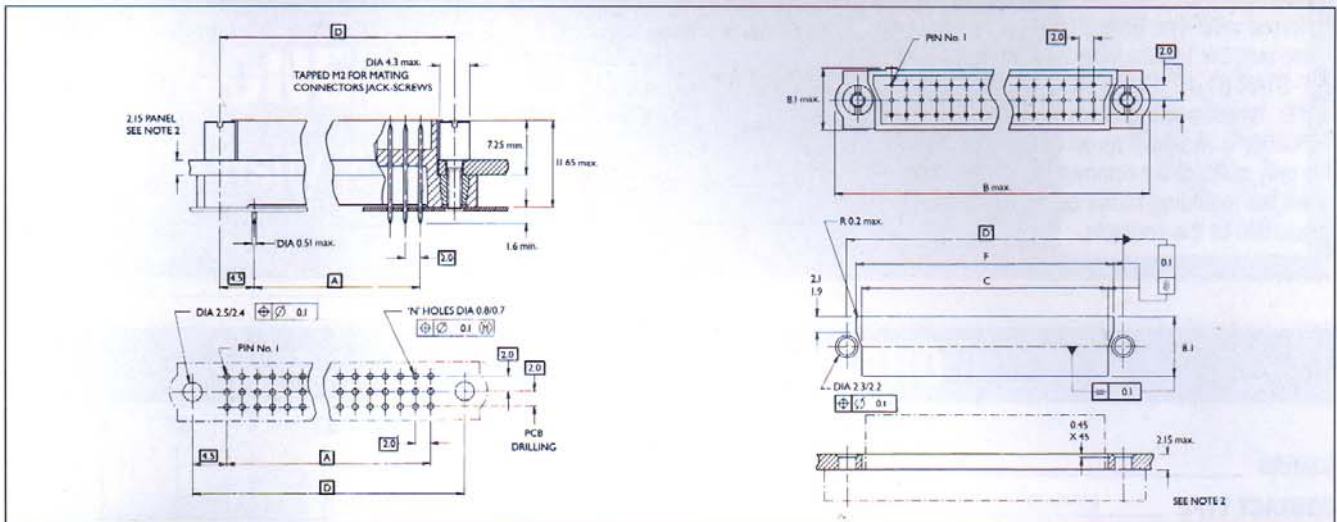
Male 90° p.c. Termination Type L



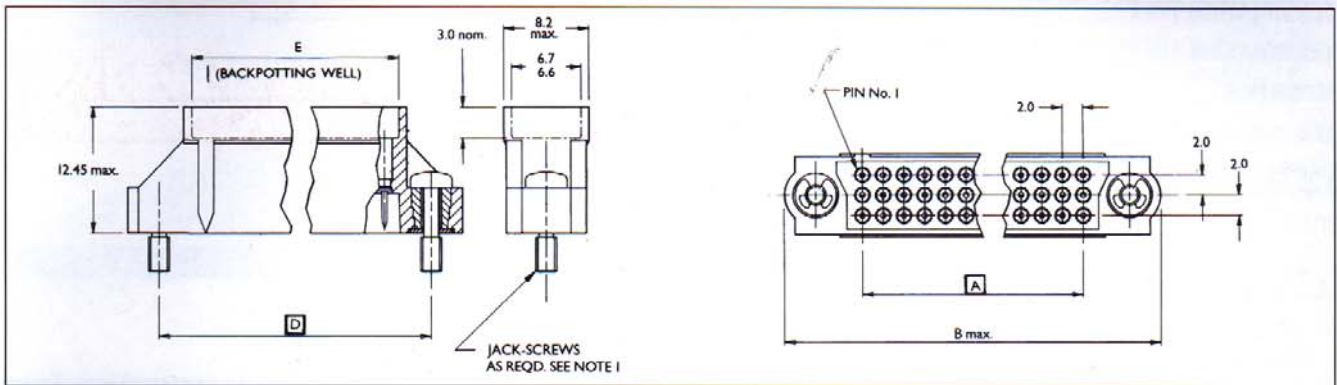
Mounting Details Termination Type T & L



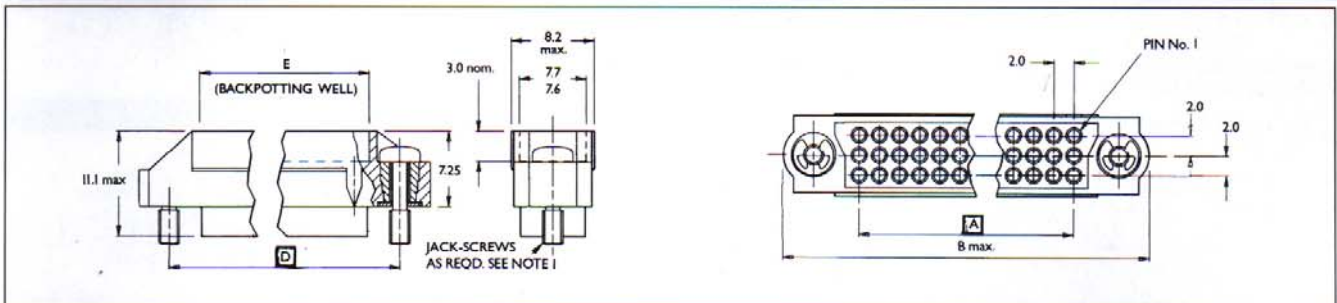
Male Panel Mounting (2.15 max.) Termination Type N



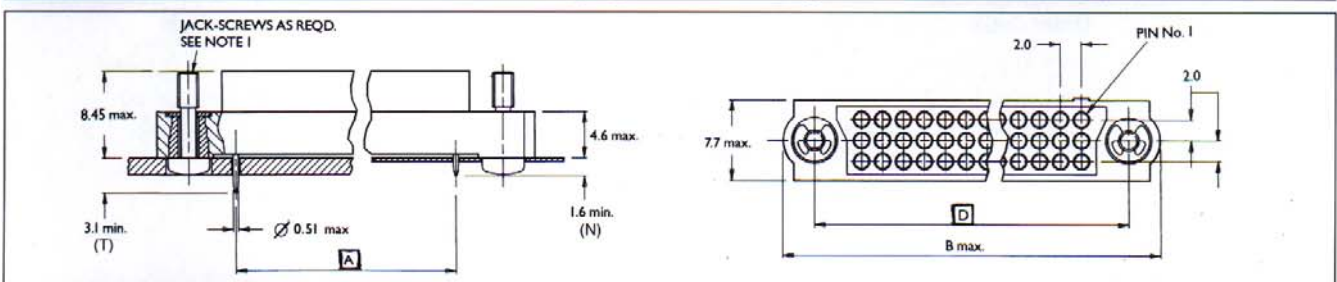
Male Crimp Termination Type C & D



Female Crimp Termination Type C & D



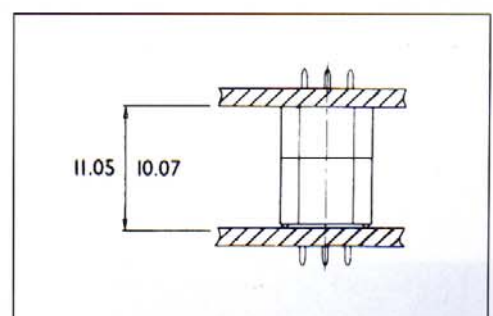
Female Straight p.c. Termination Type T & N



Common Dimensions

Contact Arrangement			
Dimensions	27	51	78
A	16	32	50
B max.	31.1	47.1	65.1
C	20.7/20.06	36.7/36.6	54.7/54.6
D	25	41	59
E	19.1/18.9	35.1/34.9	53.1/52.9
F	22.9/22.8	38.9/38.8	56.9/56.8

Spacing Board - Board



Crimp Details

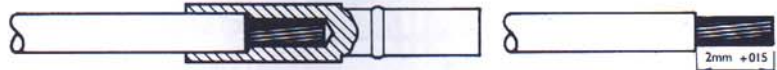
Preferred wire type BS G 210 (Type A)

* Also suitable for use with 24 A.W.G.

DEF-STAN 61-12 (Part 6 Type 1) PVC

NOTE: Whilst a crimp contact withdrawal tool (MP6808) is available as an optional accessory, it is only suitable for removal of ALL contacts when the moulding MUST be replaced prior to reinsertion of the contacts.

Termination type	Crimp barrel accommodation	Wire Size/Crimp Tool Setting			
		22 A.W.G.	24 A.W.G.	26 A.W.G.	28 A.W.G.
C*	24-28 A.W.G.	-	7	6	6
D	22 A.W.G.	6	-	-	-



Wire preparation

ORDERING INFORMATION

SERIES _____ **301**
CONTACT TYPE _____ **M**
CONTACT ARRANGEMENT _____ **27**
TERMINATION TYPE _____ **T**
TERMINATION FINISH _____ **03**
MOUNTING _____ **A**
VARIANT _____ **00**

Series

301 - Three row

Contact Type

M - Male

F - Female

Contact Arrangement

27 - 51 - 78

Termination Type

L - 90° p.c. (male only)

T - Straight p.c.

N - Straight p.c. (short for flexi circuits)

X - Straight p.c. (male only)

Y - Straight p.c. (male only)

Z - Straight p.c. (male only)

C - Crimp 24-28 A.W.G.

D - Crimp 22 A.W.G.

Termination Finish

01 - Gold (standard for crimp)

03 - Tin alloy (standard for p.c.)

Mounting

A - p.c.b.

B - Panel (2.15max.)

C - Cable

Variant

00 - Standard

01 - With Jackscrews (except mounting "B")

Jackscrew Assembly (pair) Part No. **MP 6822**

Tools

	Order Code
Hand Crimp Tool	MP22520/2-01
8 Indent Die Set	(BS Style 5310-3A-300)
Contact Insertion Tool	MP 6811
	(BS Style T5748-19)

	Order Code
Contact Withdrawal Tool	MP 6808 (female)
	MP 6809 (male)
Crimp Tool Positioner	MP 6823

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