micronector 200

High density 2mm pitch connectors

ITW McMurdoo Connectors
A range of high specification 2mm pitch connectors meeting demanding performance requirements and available released to BS 9525 – F0033

### FEATURES
- 2mm pitch
- High reliability circular contacts for increased vibration and shock resistance
- Connector polarisation
- Small footprint for increased packing density
- Low profile

### ELECTRICAL
- Current – individual contact (in isolation) at 25°C Tamb 2.0A max at 85°C Tamb 1.75A max
- - all contacts (simultaneously) at 25°C Tamb 1.75A max at 85°C Tamb 1.5A max
- Working voltage (DC or AC peak) 120V
- Proof voltage (DC or AC peak) 360V
- Contact resistance - (initially) 20mΩ max - (after conditioning) 25mΩ max
- Insulation resistance – (initially) 1000mΩ min - (after conditioning) 100mΩ min

### ENVIRONMENTAL
- Temperature Range -55°C to +125°C
- Vibration severity (General) 10 Hz, 2000Hz 0.75mm/98ms² (10g) duration 6h
- Bump severity 390ms² (40g) 4000 ±10 bumps
- Shock 981ms² (100g), for 6ms
- Acceleration severity 490ms² (50g)

### MATERIALS
- Insulator Glass filled thermoplastic rated UL94V-0
- Contact Copper alloy plated hard acid gold
- Termination Hard acid gold or tin/lead

### MECHANICAL
- Operations 500
- Insertion and withdrawal force (per contact pair) 2.0N max., 0.2N min.
- Contact retention 10N min.
- Crimp barrel accommodation 22 AWG – 28AWG to BS G 210 type A

### 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

### Minimum spacing
- End to end dimensions
- Minimum gap 8.35 min. Extraction Claw
- Extrication claw
- Spacing between adjacent PCB hole drillings 7.4/7.6

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.
**PCB Layouts**

**Male Straight p.c.**

**Termination type T, X and Y**

![Diagram of Male Straight p.c. termination type T, X and Y]

<table>
<thead>
<tr>
<th>Contact Arrangement Single Row</th>
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**Male 90° p.c.**

**Termination type L**

![Diagram of Male 90° p.c. termination type L]

**Female Straight p.c.**

**Termination type T and N**

![Diagram of Female Straight p.c. termination type T and N]

**Female Crimp**

**Termination type C and D**

![Diagram of Female Crimp termination type C and D]

**For Male connectors type L for Male and Female Types T, X, Y and N omit 1.1/1.0mm holes**

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**Plug viewed from above, socket viewed from below.**
Connectors

A comprehensive range

In addition to micronectors we supply a comprehensive range of connectors for a variety of applications including general industrial, I.T. and military.

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

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ORDERING INFORMATION

McMurdos reference for CONNECTORS

Series
201 – Single Row
202 – Two Row

Contact type
M – Male
F – Female

Contact arrangement
Single row – 02, 03, 04, 05, 06, 07 and 17
Two row – 04, 06, 08, 10, 12, 14, 16, 20, 26 and 34

Variant
U – No Latches
L – Latches

Termination type
L – 90˚ p.c. (male only)
T – Straight p.c. (male & female)
Y – Straight p.c. (male only)
X – Straight p.c. (male only)
N – Straight p.c. (short female only, for flexible circuits)
C – Crimp 24-28 A.W.G. (female only)
D – Crimp 22 A.W.G. (female only)

Termination finish
01 – Gold
03 – Tin alloy

TOOL ORDERING INFORMATION

Hand Crimp Tool 8 Indent Die set . . . M22520/2-01 (BS Style 5310-3A-300)
Connector Separating Tool . . . . . . T5746 (BS Style T5746)
Retaining Strap . . . . . . . . . . . . . MP6759
Contact Insertion Tool . . . . . . . . . MP6811 (BS Style T5748-19)
Contact Withdrawal Tool . . . . . . . MP6808
Crimp Tool Positioner . . . . . . . . MP6818 (BS Style T5747)

CONTACT ARRANGEMENT (viewed from mating face of male connector)

BS reference for CONNECTORS

BS style
B5740 – Female Crimp
B5741 – Female p.c.
B5743 – Male all

BS Series
1 – Single Row
2 – Two Row

BS Contact arrangement
Single row – 02, 03, 04, 05, 06, 07 and 17
Two row – 04, 06, 08, 10, 12, 14, 16, 20, 26 and 34

BS Contact type
M – Male
F – Female