Mixed Technology Series

PART NUMBERING SYSTEM

M80 - X #X XX XX #X - XX - XXX - XX - XXX

PRODUCT RANGE

- Female (Socket)
- Male (Plug)

| -61 | \sim bia | AL CO | A CT | CTV | |
|-----|------------|-------|---------|-----|---|
| | | | 4 T 📟 🛭 | | |
| | OI V | | | | - |

| 00 | No Signal Contacts | |
|----|------------------------------|--|
| T1 | Vertical PC Tail, 3mm tail | |
| T2 | Vertical PC Tail, 4.5mm tail | |

- Horizontal PC Tail, 3mm tail (Male only)
- Horizontal PC Tail, 4.5mm tail (Male only)
- **C1** Crimp 24-28 AWG (Small Bore)
- Crimp 22 AWG (Large Bore)
- **Vertical Surface Mount**
- Horizontal Surface Mount (Male only)

00, 02 to 50 (Must be even number)

| | SIGNAL CONTACT FINISH | | |
|------------|-----------------------|--------------------|----------------------------|
| 6 | 00 | No Signal Contacts | |
| P | 01 | Gold + Tin/Lead | Female PC Tail only |
| 16 | 05 | Gold | |
| P | 22 | Gold + Tin/Lead | Male PC Tail only |
| 6 6 | 42 | Gold + Tin | All PC Tail & Female Crimp |

PART NUMBER OF SPECIAL CONTACTS AFTER **FINAL SIGNAL CONTACT**

See following page, or 000 if none loaded

NUMBER OF SPECIAL CONTACTS AFTER FINAL SIGNAL CONTACT

00 to 12

PART NUMBER OF SPECIAL CONTACTS BEFORE SIGNAL CONTACT NO. 1

See following page, or 000 if none loaded

NUMBER OF SPECIAL CONTACTS BEFORE

00 to 12

| JACKSCREW VARIANT (see following page) | | | |
|--|--|--|--|
| 00 | None assembled | | |
| F1 | Hexagonal slotted jackscrew (Female only) | | |
| F2 | Hex socket jackscrew (Female only) | | |
| F3 | Guide Pin with Panel Mount (Female only) | | |
| M1 | Jackscrew Nut only (Male only) | | |
| M2 | Jackscrew Nut with Vertical 3.5mm Board Mount Stud (Male only) | | |
| М3 | Jackscrew Nut with Vertical 5mm Board Mount Stud (Male only) | | |
| M5 | Jackscrew Nut with Horizontal 5mm Board Mount Slotted Bolt (Male only) | | |
| M7 | Jackscrew Nut with Horizontal 5mm Board Mount Hex Skt Bolt (Male only) | | |

Note: If special contacts are being ordered separately, and cavities in mould are to be left empty, then the Special Contact part numbers should be 000.

EXAMPLES:

M80-5T11422M1-02-311-02-311

DIL Male Vertical with Jackscrew, no board mount, 3mm PC Tail - 2 Coax, 14 Signal, 2 Coax.

M80-4C12005F1-04-326-00-000

DIL Female Crimp with Slotted Hex Jackscrews, Small Bore - 4 Power (for 14 AWG), 20 Signal

M80-4D11042F2-04-305-02-308

DIL Female Crimp with Hex Socket Jackscrews, Large Bore – 4 Special cavity, 10 Signal, 2 Special cavity. Supplied with 4-off Female Straight Crimp Coax for Ø2mm cable, and 2-off Female 90° Crimp Coax for Ø2mm cable.

Max. number of contacts per connector: Special contacts only - 12 off, Signal contacts only - 50 off.





















Datamate

SPECIFICATION

JACKSCREWS

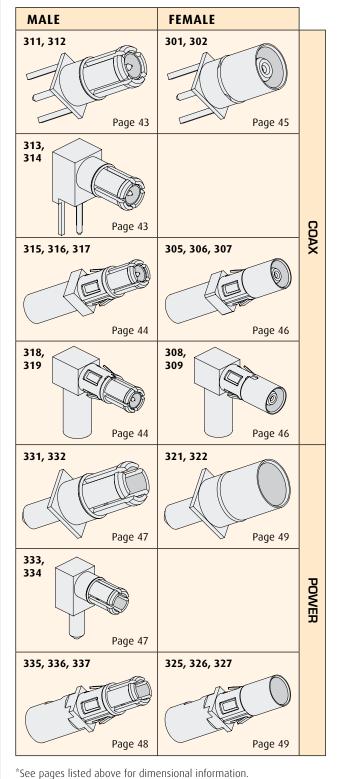
NONE ASSEMBLED (MALE & FEMALE) 00 Pages 38, 39, 40 Pages 41, 42

| FOR MALE ASSEMBLIES | | | |
|---------------------|--|--|---|
| M1 | | | Jackscrew Nut Only Pages 38, 39, 40 |
| M2 or M3 | | | Jackscrew Nut with Vertical Board Mount Stud Page 38 |
| M5 or M7 | | | Jackscrew Nut with Horizontal Board Mount Stud Page 38 |

| FOR | FEMALE ASSEMBLIES | | |
|-----|-------------------|--|--|
| F1 | | Hexagonal Slotted Jackscrew Pages 41, 42 | |
| F2 | | Hex Socket Jackscrew Pages 41, 42 | |
| F3 | | Panel Guide with Board Mount Page 41 | |

^{*}See following pages for dimensional information.

SPECIAL CONTACTS























SPECIFICATION

Special Contacts

Latching collar: Beryllium copper,

nickel plated

Copper alloy, Gold plated Other metallic parts:

Insulator: PTFE

Frequency range: 6 GHz

(depending on cable)

Impedance: 50 Ohms

V.S.W.R.: < 1.05 + 0.04 F (GHz)

Operating voltage (sea level): 180 V a.c. at 500 mA

Maximum voltage (sea level): 1000 Vrms

Contact resistance: 6 Milliohms max

Insulation resistance: 106 Megohms

at 250 Vrms

Endurance: 500 cycles

Insertion force: 5N max, 0.6N min Withdrawal force: 2N max, 0.5N min

Contact replacement

in connector: 5 times

Operating temperature: -55°C to +125°C

96 hrs Salt spray test: Humidity test: 56 days

















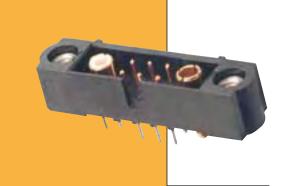




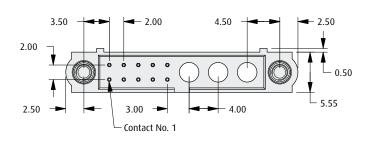


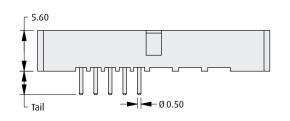
Male Vertical PC Tail

- **▶** Jackscrews are assembled where specified.



NON-SYMMETRICAL CONTACT CONFIGURATION

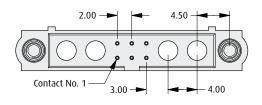




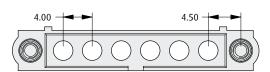
EXAMPLE OF PART NUMBER

M80-5TX10XXXX-00-000-03-XXX

SYMMETRICAL CONTACT CONFIGURATION



SPECIAL CONTACTS ONLY

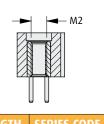


EXAMPLE OF PART NUMBER

M80-5TX06XXXX-02-XXX-02-XXX

EXAMPLE OF PART NUMBER M80-5000000XX-06-XXX-00-000

WITH JACKSCREWS



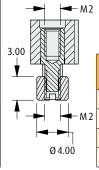
| TAIL LENGTH | SERIES CODE |
|-------------|---------------|
| 3mm | M80-5T1XXXXM1 |
| 4.5mm | M80-5T2XXXXM1 |

NO JACKSCREWS



| TAIL LENGTH | SERIES CODE |
|-------------|---------------|
| 3mm | M80-5T1XXXX00 |
| 4.5mm | M80-5T2XXXX00 |

WITH BOARD-MOUNT JACKSCREWS



| | TAIL LENGTH | STUD LENGTH | SERIES CODE |
|---|----------------|----------------|---------------|
| | 3mm | 3.5mm | M80-5T1XXXXM2 |
| 2 | 3mm | 5.0mm | M80-5T1XXXXM3 |
| | 4.5mm | 3.5mm | M80-5T2XXXXM2 |
| | 4.5mm | 5.0mm | M80-5T2XXXXM3 |















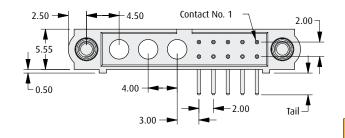


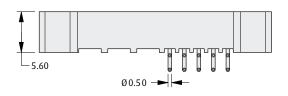


Male Horizontal PC Tail



NON-SYMMETRICAL CONTACT CONFIGURATION

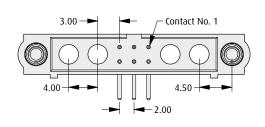




EXAMPLE OF PART NUMBER

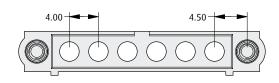
M80-5LX10XXXX-00-000-03-XXX

SYMMETRICAL CONTACT CONFIGURATION



EXAMPLE OF PART NUMBER M80-5LX06XXXX-02-XXX-02-XXX

SPECIAL CONTACTS ONLY



M80-5000000XX-06-XXX-00-000

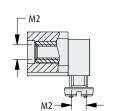
HEX SOCKET JACKSCREWS

WITH JACKSCREWS

6.00







| _ M2 |
|------|
| V |
| |
| |
| M2 |

| TAIL | SERIES CODE |
|-------|---------------|
| 3mm | M80-5L1XXXXM1 |
| 4.5mm | M80-5L2XXXXM1 |

2.00

| TAIL | SERIES CODE |
|-------|---------------|
| 3mm | M80-5L1XXXX00 |
| 4.5mm | M80-5L2XXXX00 |

| | TAIL | BOLT | SERIES CODE |
|---|-------|-------|---------------|
| 0 | 3mm | 5.0mm | M80-5L1XXXXM5 |
| 0 | 4.5mm | 5.0mm | M80-5L2XXXXM5 |

| TAIL | BOLT | SERIES CODE |
|-------|-------|---------------|
| 3mm | 5.0mm | M80-5L1XXXXM7 |
| 4.5mm | 5.0mm | M80-5L2XXXXM7 |
| | | |













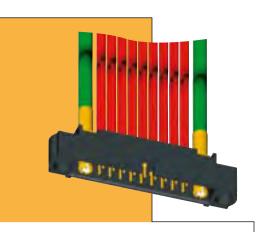




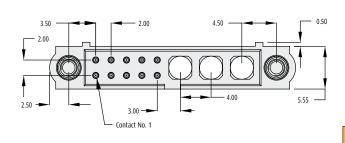


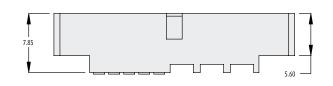
Male Crimp

- Customer defined contact configurations
- Polarised mouldings.
- Fully shrouded contacts.
- Large bore 22 AWG, small bore 24-28 AWG.
- lackscrews are assembled where specified
- Signal contacts are supplied loose and are rear insertable.
- Mates with connectors shown on pages 41 and 42.



NON-SYMMETRICAL CONTACT CONFIGURATION

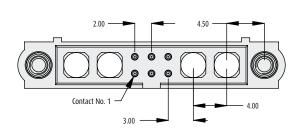




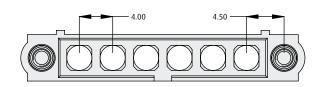
EXAMPLE OF PART NUMBER

M80-5X110XXXX-00-000-03-XXX

SYMMETRICAL CONTACT CONFIGURATION



SPECIAL CONTACTS ONLY



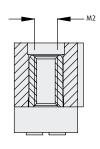
EXAMPLE OF PART NUMBER

M80-5X106XXXX-02-XXX-02-XXX

EXAMPLE OF PART NUMBER

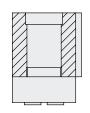
M80-5000000XX-06-XXX-00-000

WITH JACKSCREWS



| CRIMP SIZE | SERIES CODE |
|------------|---------------|
| Large Bore | M80-5D1XXXXM1 |
| Small Bore | M80-5C1XXXXM1 |

NO JACKSCREWS



| CRIMP SIZE | SERIES CODE |
|------------|---------------|
| Large Bore | M80-5D1XXXX00 |
| Small Bore | M80-5C1XXXX00 |

All dimensions in mm.

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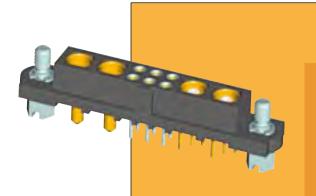








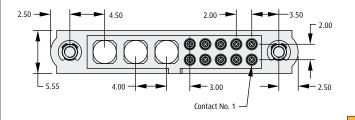


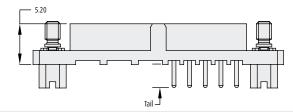


Female PC Tail

- **Lesson** Customer defined contact configurations.

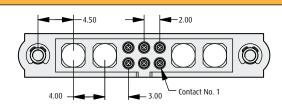
NON-SYMMETRICAL CONTACT CONFIGURATION



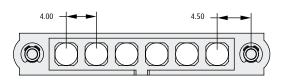


EXAMPLE OF PART NUMBER M80-4TX10XXXX-00-000-03-XXX

SYMMETRICAL CONTACT CONFIGURATION



SPECIAL CONTACTS ONLY



EXAMPLE OF PART NUMBER

M80-4TX06XXXX-02-XXX-02-XXX

NO JACKSCREWS

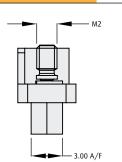
EXAMPLE OF PART NUMBER

M80-4000000XX-06-XXX-00-000

WITH PANEL MOUNT

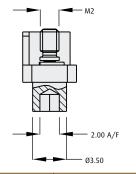
e CHINE

WITH SLOTTED **IACKSCREWS**



| П | |
|---|--|
| | |





| a dolbr | |
|---------|------|
| | 6.00 |
| 3.00 | V A |

| TAIL LENGTH | SERIES CODE |
|-------------|---------------|
| 3mm | M80-4T1XXXXF1 |
| | |

| TAIL LENGTH | SERIES CODE |
|-------------|---------------|
| 3mm | M80-4T1XXXX00 |
| 4.5mm | M80-4T2XXXX00 |

| TAIL LENGTH | SERIES CODE |
|-------------|---------------|
| 3mm | M80-4T1XXXXF2 |
| 4.5mm | M80-4T2XXXXF2 |

| TAIL LENGTH | SERIES CODE |
|-------------|---------------|
| 3mm | M80-4T1XXXXF3 |
| 4.5mm | M80-4T2XXXXF3 |













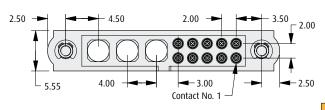


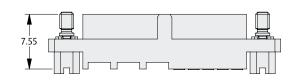




- Large bore 22 AWG, small bore 24-28 AWG.

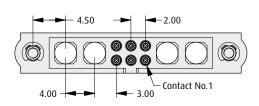
NON-SYMMETRICAL CONTACT CONFIGURATION





EXAMPLE OF PART NUMBER M80-4X110XXXX-00-000-03-XXX

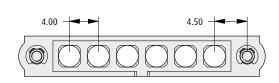
SYMMETRICAL CONTACT CONFIGURATION



EXAMPLE OF PART NUMBER

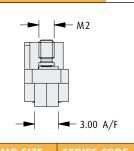
M80-4X106XXXX-02-XXX-02-XXX

SPECIAL CONTACTS ONLY



EXAMPLE OF PART NUMBER M80-4000000XX-06-XXX-00-000

WITH JACKSCREWS



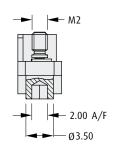
| CRIMP SIZE | SERIES CODE |
|------------|-------------|
| Large Bore | M80-4D1XXF1 |
| Small Bore | M80-4C1XXF1 |

NO JACKSCREWS



| CRIMP SIZE | SERIES CODE |
|------------|-------------|
| Large Bore | M80-4D1XX00 |
| Small Bore | M80-4C1XX00 |

WITH BOARD-MOUNT JACKSCREWS



| CRIMP SIZE | SERIES CODE |
|------------|-------------|
| Large Bore | M80-4D1XXF2 |
| Small Bore | M80-4C1XXF2 |



















