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Datamate L-Tek Specification

Materials

Housings: Glass-filled thermoplastic UL94V-0 **Female contacts:** Brass shell, with Beryllium Copper

inner contact

Male contacts: Copper alloy

Finish: See individual pages

⇒ Electrical

Current

Individual contacts in isolation: 3.3A max (at 25°C)

2.6A max (at 85°C)

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

Working voltage

At sea level 1013 mbar: 800V DC or ACrms

Voltage proof

At sea level 1013 mbar: 1,200V DC or ACrms

Contact resistance

Initial: $20m\Omega$ max After conditioning: $25m\Omega$ max

Insulation resistance

Initial:
After conditioning:

1,000MΩ min 100MΩ min

Mechanica

Durability: 500 operations

Insertion force (max): 2.8N Withdrawal force (min): 0.2N

Signal crimp accommodation: 22 AWG to 32 AWG

BS 3G 210 Type A, MIL-W-16878

: Environmental

Environmental classification: 55/125/56 days at 95% RH

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

*Vibration sensitivity: 10Hz to 2000Hz, 0.75mm,

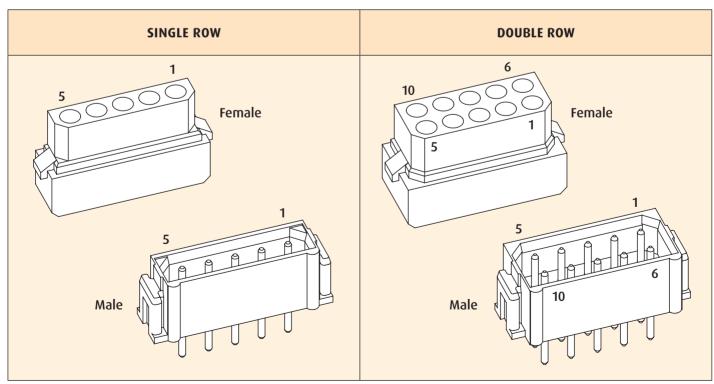
98m/s² (10G), duration 6h *Bump severity: 390m/s² (40G), 4000 ±10 bumps

*Shock severity: 981m/s² (100G) for 6ms

*Acceleration severity: 490m/s² (50G)

* Tested with latched connectors.

Pin Numbering



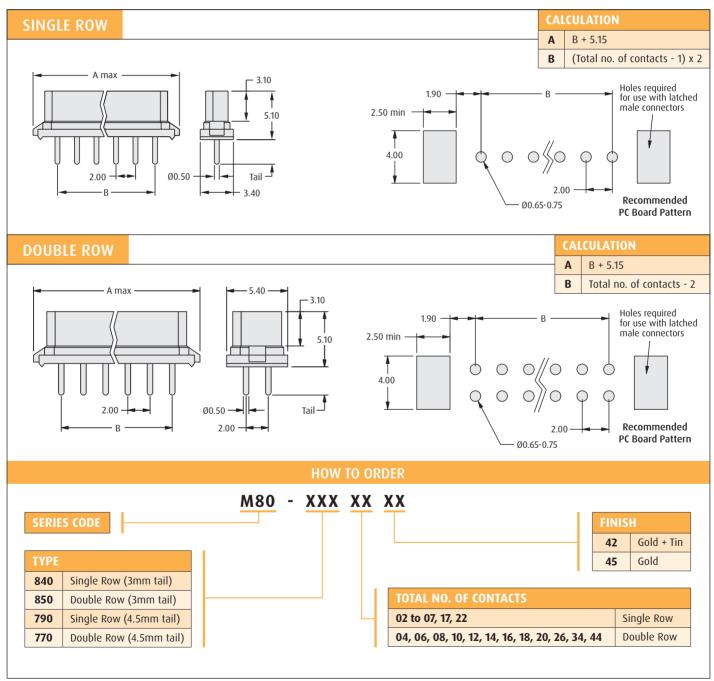


Datamate L-Tek Mating Profiles

| [| | FEMALE | | | | |
|------|----------------------------|-----------------------|--------------|--------------|--------------|--------------|
| | | VERTICAL THROUGHBOARD | | VERTICAL SMT | CRIMP | |
| | | SIL | DIL | DIL | SIL | DIL |
| | VERTICAL THROUGHBOARDD | 7.23 | 7.23 | 7.83 | 10.00 max | 10.00 max |
| MALE | HORIZONTAL THROUGHBOARD | 7.98 | 9.98 | 10.58 | 10.85 max | 12.95 max |
| | VERTICAL SMT | | 7.93 | 8.53 | | 10.75 max |
| | HORIZONTAL SMT | | 11.78 | 12.38 | | 14.60 max |
| | CRIMP | 10.79 max | 10.79 max | 11.39 max | 13.30 max | 13.30 max |



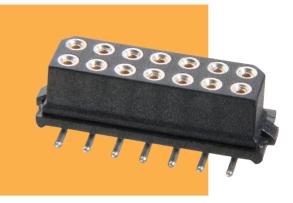
Female Vertical Throughboard → Polarized housings. → Dummy contacts are available for additional polarization, use order code M80-023.

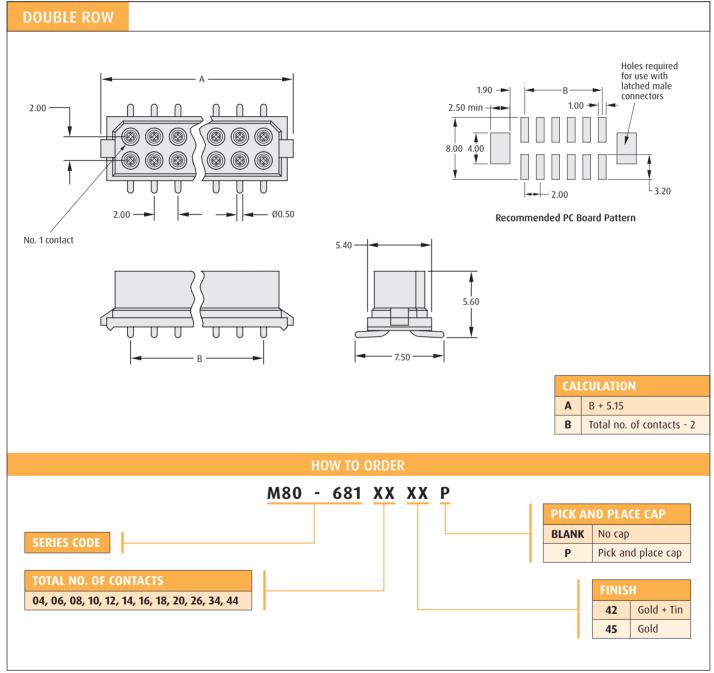




Female Vertical Surface Mount

- ▶ Optional pick and place cap.
- Gull wing SMT tails simplify inspection process



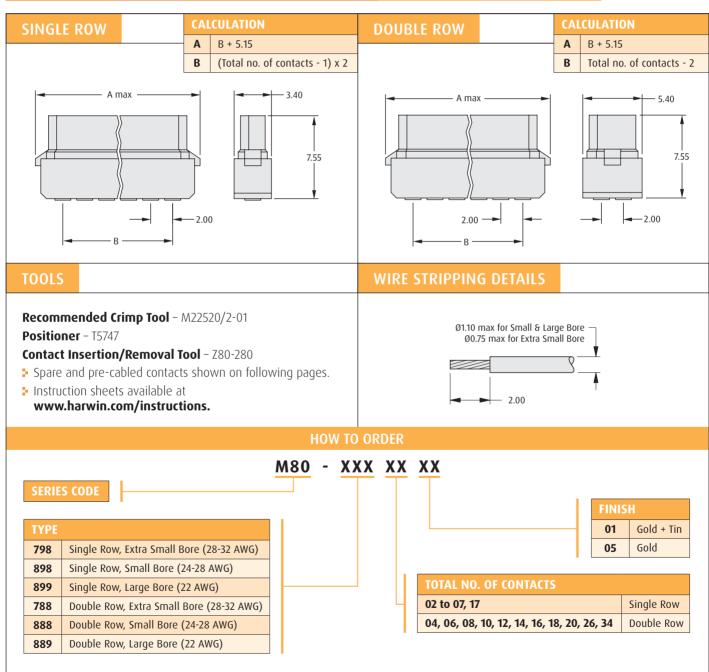




Female Crimp Kit

- ➤ Part numbers are for a complete kit of a housing and the applicable number of contacts.
- Contacts are rear insertable
- Spare contacts are available see the following page.



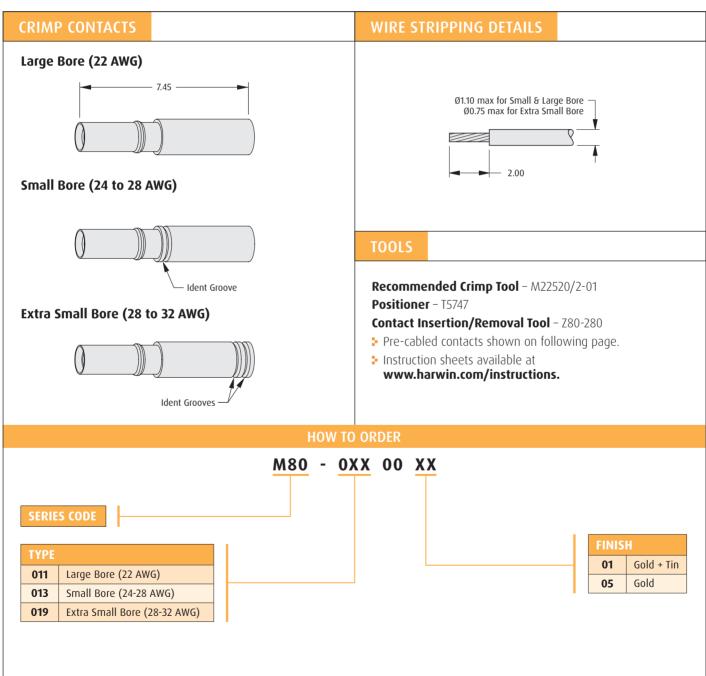




Spare Female Crimp Contacts

Barrel Crimp Contacts are supplied with the connectors
 see previous page. Use the order code for extra spare crimps



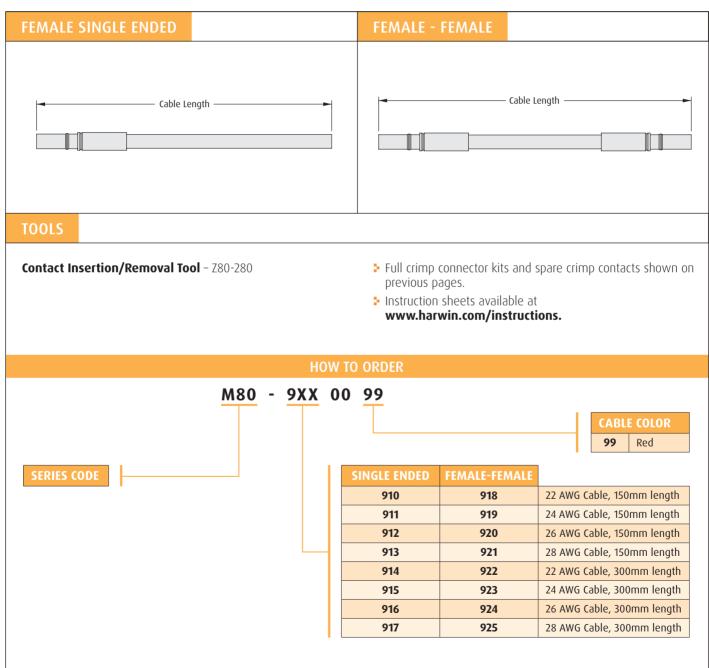




Female Crimp Contacts - Pre-Crimped Wires

- Female crimp contacts pre-assembled with a choice of BS 3G 210 Type A cable at selected lengths.
- PTFE-insulated, multi-strand silver-plated copper conductor equipment wire.
- ► Ideal for prototype and pre-production applications.



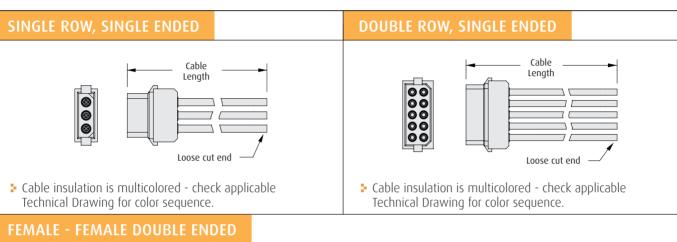


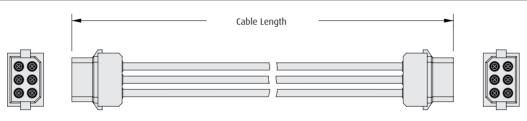


Female Cable Assemblies

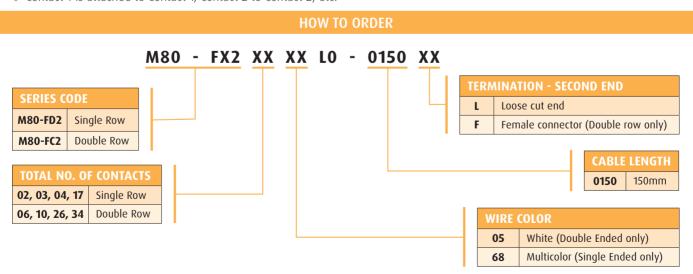
- **▶** Fully assembled connectors and cable in standard configurations.
- Fitted with 24AWG wire, PTFE insulation
- ▶ Double Row connectors (10 contacts and larger) compatible with plastic Hood shown on following page.







- Cable insulation is white.
- Contact 1 is attached to Contact 1, Contact 2 to Contact 2, etc.

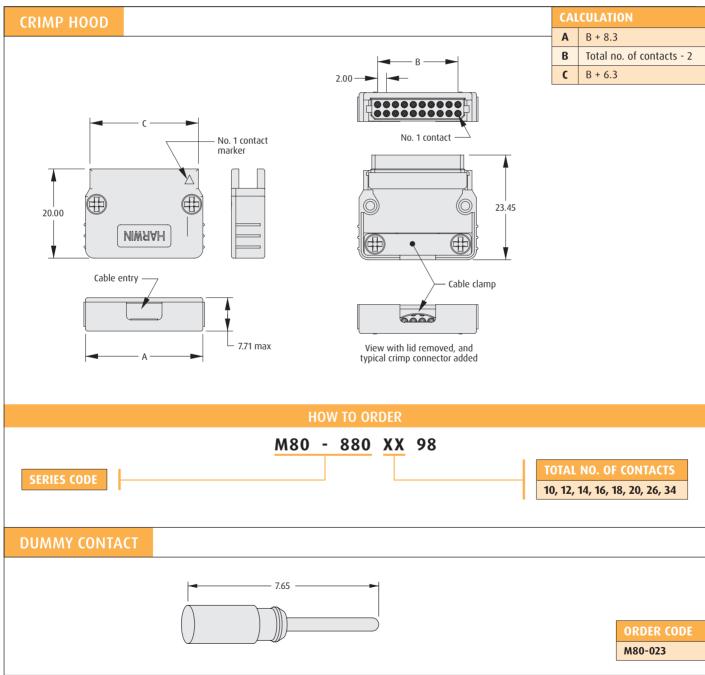




Female Accessories

- ➤ Crimp Hood is supplied as a kit of parts, including body, lid, cable clamp and 4 screws.
- For use with double row female crimp connectors.
- ▶ Mates with unlatched male connectors.
- ➤ Dummy contact can be used for additional polarization or keying of multiple connectors.
- Fits both female Throughboard and Crimp housings

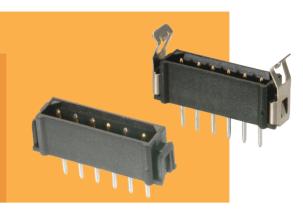


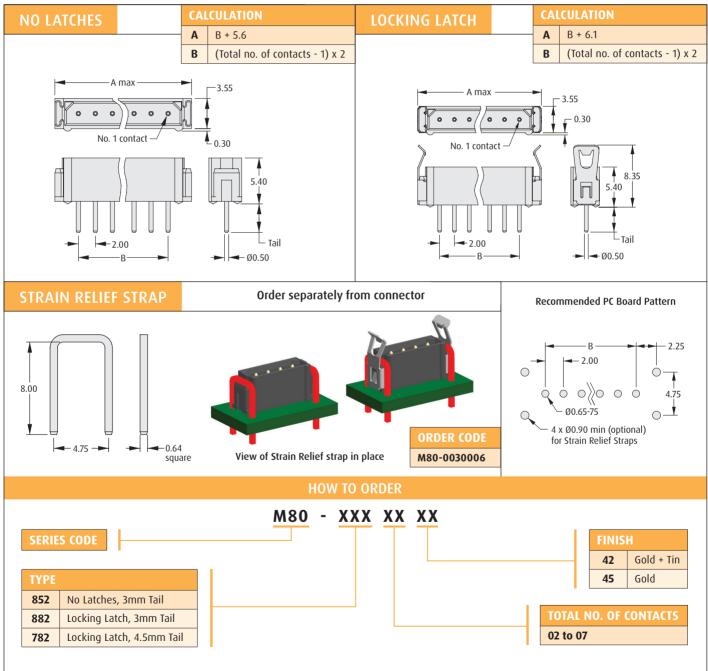




Male Single Row Vertical Throughboard

- Polarized housings
- ▶ Fully shrouded contacts
- ▶ Mates with standard Datamate L-Tek female connectors.
- Can be used with optional Strain Relief straps, available to order separately: order code M80-0030006.

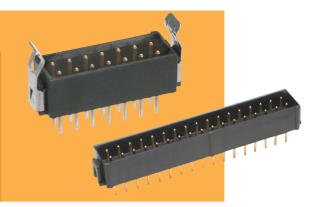


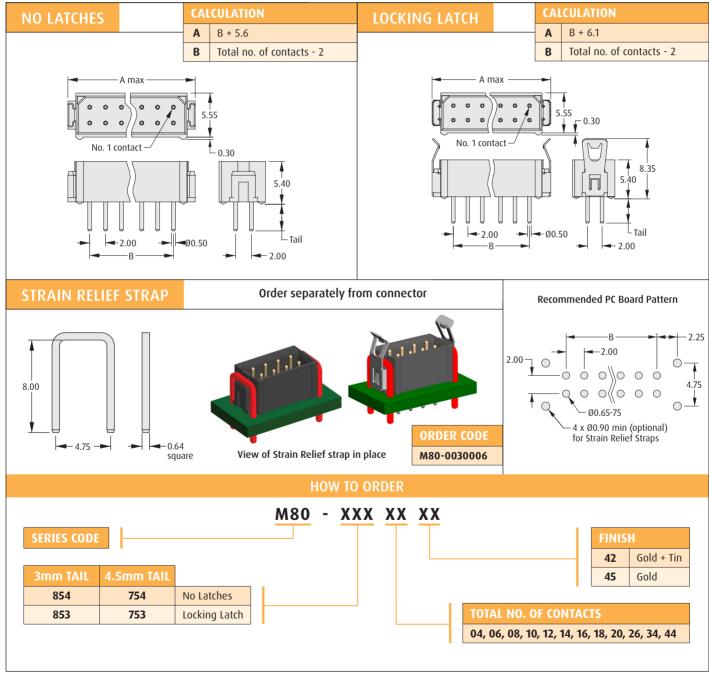




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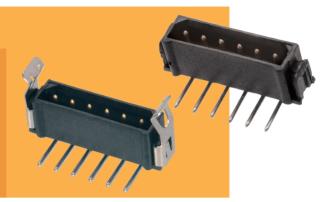


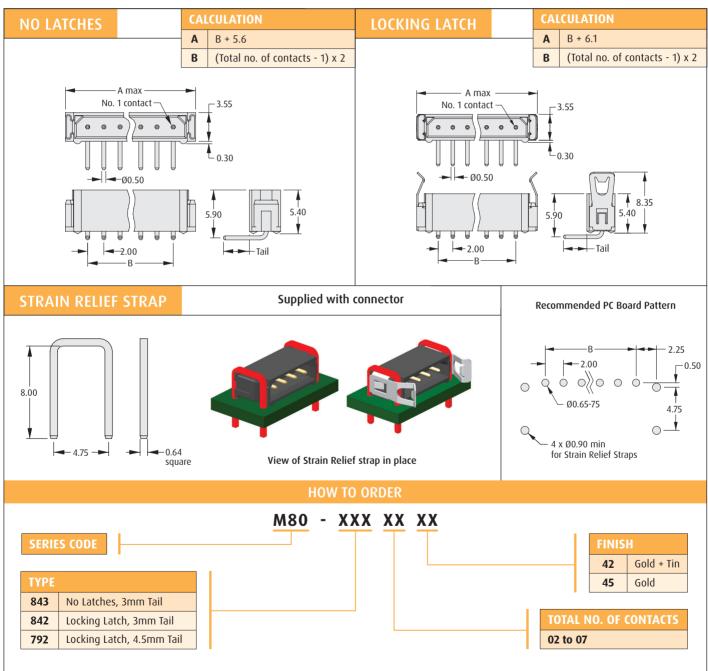




Male Single Row Horizontal Throughboard

- Polarized housings.
- Fully shrouded contacts
- ▶ Mates with standard Datamate L-Tek female connectors.
- Supplied with two Strain Relief straps per connector; spares available under order code M80-0030006.

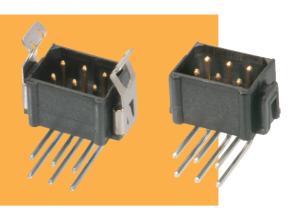


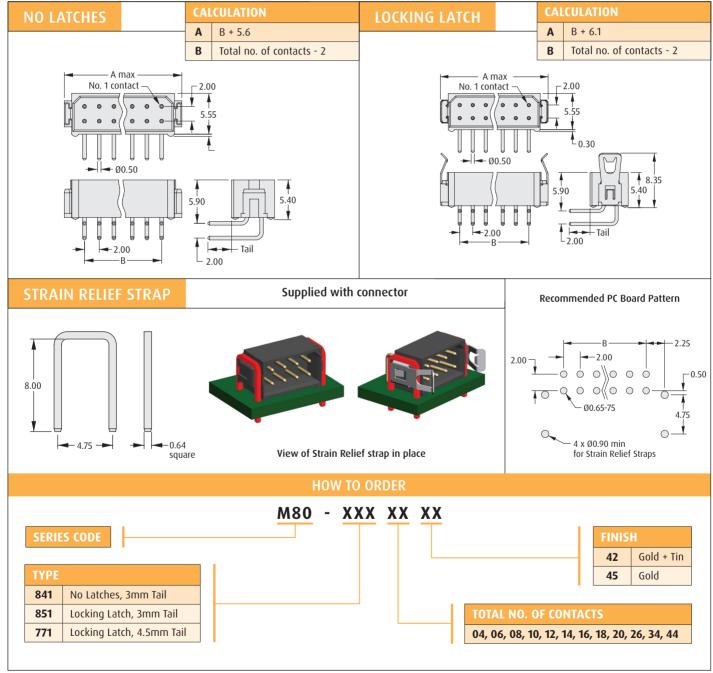




Male Double Row Horizontal Throughboard

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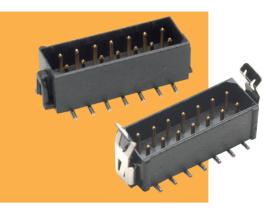


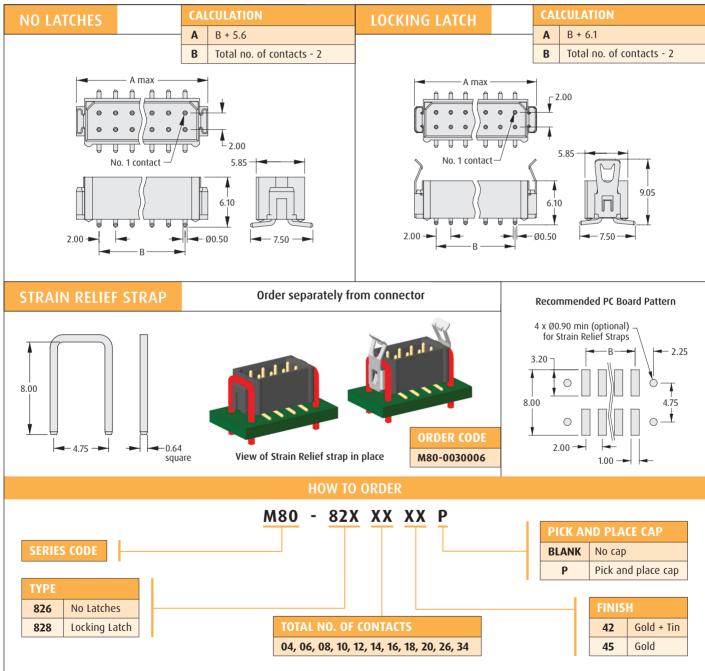




Male Vertical Surface Mount

- Mates with standard Datamate L-Tek female connectors
- Can be used with optional Strain Relief straps, available to order separately: order code M80-0030006.
- Optional pick and place cap
- Gull wing SMT tails simplify inspection process.

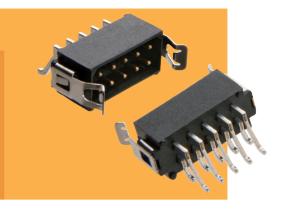


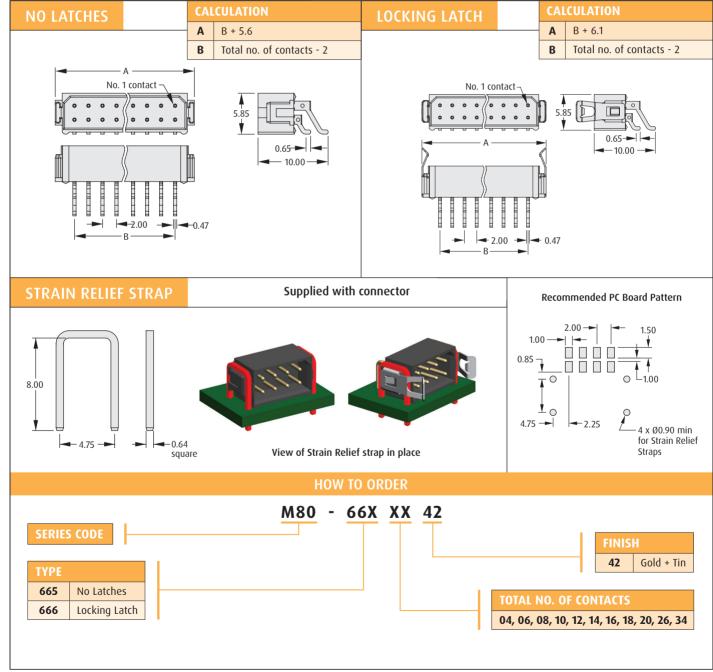




Male Horizontal Surface Mount ▶ Mates with standard Datamate L-Tek female connectors.

- spares available under **order code M80-0030006**.
- Stamped contact ensures co-planarity.



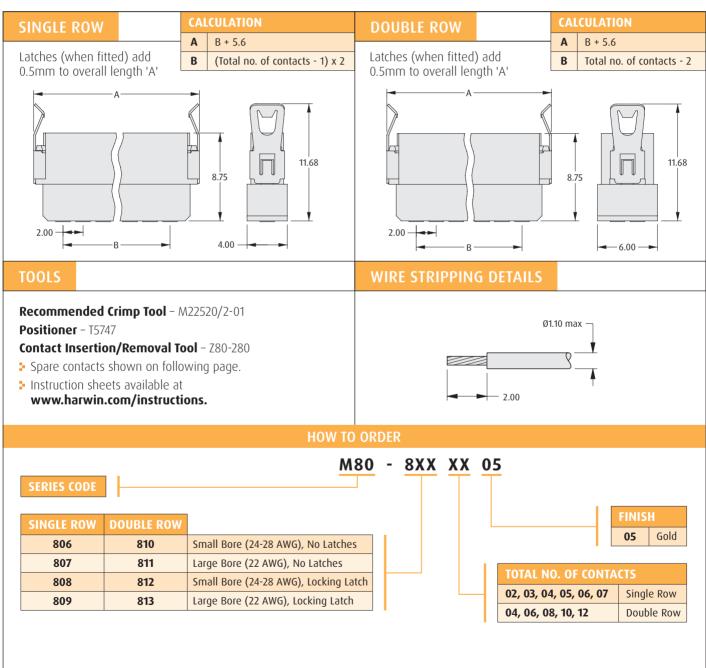




Male Crimp Kit

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Spare Male Crimp Contacts

▶ Barrel Crimp Contacts are supplied with the connectors
 - see previous page. Use the order code for extra Spare crimps



