## Datamate L-Tek for PIHR Hi-Rel Connectors

## Robust 2mm Pitch Connectors ready for Pin-in-Hole Reflow

High-reliability performance combined with volume assembly methods. Ensure continuous signal integrity under vibration and shock conditions, with locking latches for fast strain relief. Ideal for pin-in-paste (PIP) or pin-in-hole reflow (PIHR) soldering methods.

Vertical male connectors in single row, with 2 mm terminations plated with $100 \%$ tin over nickel. Supplied ready for automated board assembly in tape and reel and fitted with pick and place caps. Compatible with all Datamate L-Tek female connectors (cable and PCB mount).
Have confidence in mating and connection protection with fully shrouded and polarized housings. Stocked and ready for your extreme environment applications.

## Features and Benefits

3A per signal contact (all electrically loaded;
3.3A per individual contact) at 2 mm pitch
Compatible with existing female Datamate connectors featuring the 4 -finger contact design
Shorter termination length at 2 mm
Tape and reel packaging with pick and place
Withstands $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ temperature range

Polarized and shrouded
World-class quality from the Original Designers of Datamate

Capable of signal and low power within a compact design, saving PCB real estate

Maintains electrical continuity through high vibration and shock environments

| Design optimized for throughboard |
| :--- |
| reflow techniques (PIP, PIHR) |
| Ideal for high volume automated |
| assembly |
| Rugged and durable connector design |
| for extreme environments |
| Eliminate mis-mating and accidental |
| damage to contacts |
| Published test reports, proven track |
| record, high quality requirements |
| through the complete production cycle |


| Key Applications |  |
| :--- | :--- |
| Aerospace, Defense <br> \& Security | Radar, avionics controls, guidance <br> systems, UAVs, radio communications, <br> radar and tracking, vehicle electronics |
| Motorsport | Sensors and telemetry, navigation, ERS <br> controls |
| Space | Satellites \& CubeSats, communications, <br> launch systems |
| Energy | Oil \& Gas, renewable energy equipment |
| High-end professional <br> electronics | Robotics, automation, drives \& controls, <br> encoders and sensors |
| Medical | Diagnostics, instrumentation |



2-contact male connector with latches


3-contact male connector with latches


PIHR soldered to 1.6 mm PCB

## HARWiN

## Product Features



| Specifications |  | Mechanical |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Electrical | 3.3A max individual, | Number of Mating <br> Cycles | 500 | Housing | Glass filled PPS, UL94V-0 |
| Current rating | 3A max all contacts |  |  |  |  |
| Voltage rating | 800 V AC/DC | Temperature range | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | Contacts | Copper alloy, selective <br> gold/tin plating |
| Maximum Voltage | 1200 V AC/DC | Vibration | $10 \mathrm{G}, 6$ hours total | Latches | Beryllium Copper, <br> nickel plating |
| Insulation Resist- <br> ance | $100 \mathrm{M} \Omega$ min | Shock | 100 G | Packaging | Tape \& Reel with <br> pick \& place cap |

## HARWiN

How to Order


## Compatible Connectors

Cable Connectors:

M80-798XXXX = Female Cable Connector, suitable for 28-32 AWG

M80-898XXXX = Female Cable Connector, suitable for 24-28 AWG

M80-899XXXX = Female Cable Connector, suitable for 22 AWG

## Board Connectors:

M80-840XXXX = Female PCB Connector, with 3mm terminations

M80-790XXXX = Female PCB Connector, with 4.5 mm terminations

## Tooling

Separator Tool: Z80-299


Evenly deflects the latches outwards, to aid easy removal of the mating female connector

## HARWiN

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