HRi
RANGE

HARWiN

Datamate®

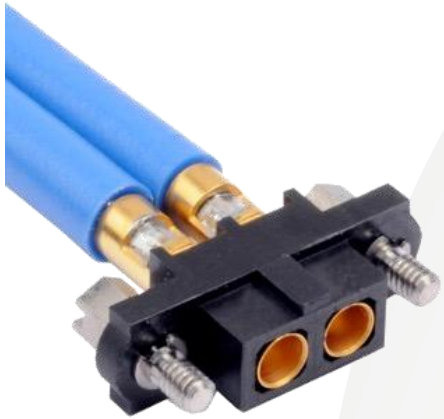
Datamate J-Tek – Extended Height

WWW.HARWIN.COM

Datamate®

HRi RANGE

INDUSTRY RECOGNISED, PROVEN PERFORMANCE



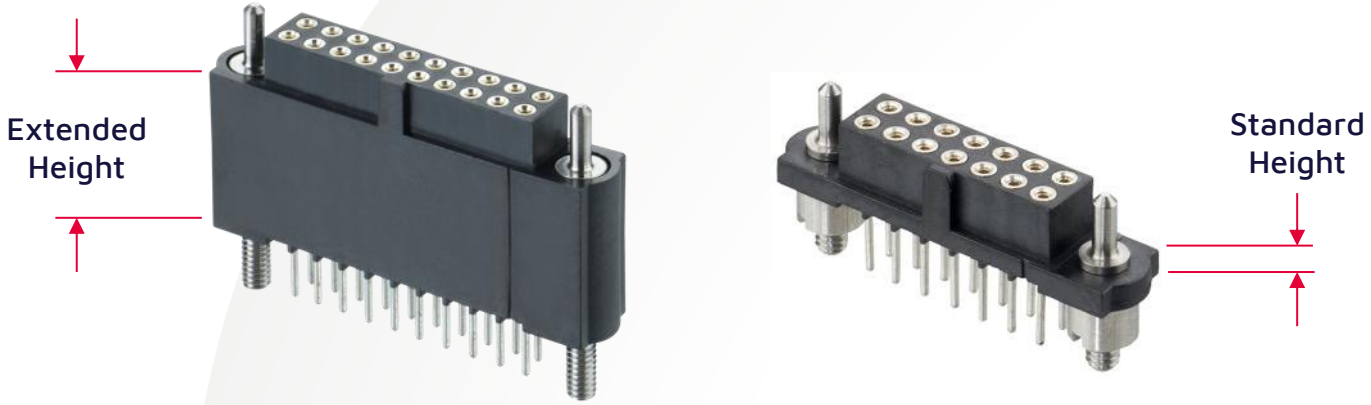
Datamate is the field-proven high-reliability range of choice for many industries.

- Complies with British Standard 9525-F0033 (1 & 2-row) and CECC 75101-008 (1, 2 & 3-row);
- Designed with aerospace, military and other "high-end" applications in mind;
- Proven in many years of successful service;
- Successfully and internationally utilized in COTS programs.

Datamate®

HRi RANGE

DATAMATE J-TEK EXTENDED HEIGHT - INCREASED COMPONENT HEIGHT



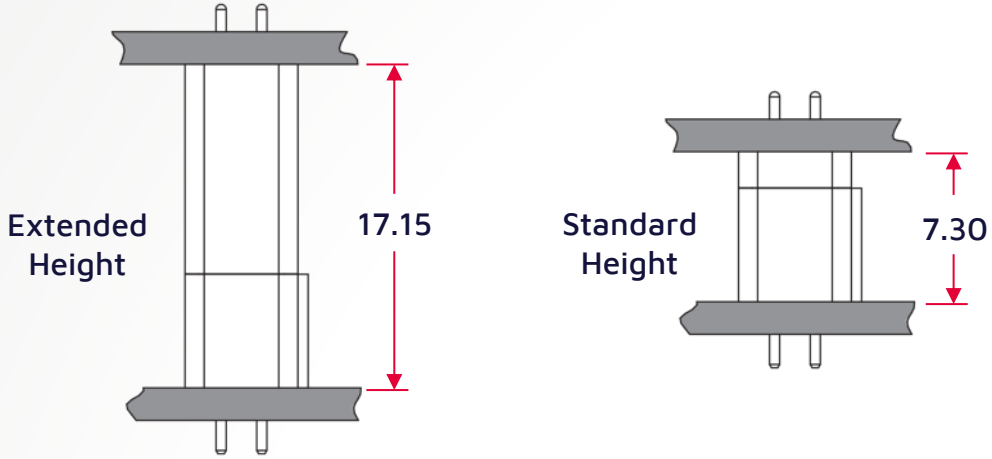
The Datamate board mounted connectors were designed to be as small as possible, with no wasted space. For board-to-board, this meant the spacing between parallel PCBs was also small – sometimes restricting the size of the other components used on these boards.

Components like relays and capacitors are often taller than the Datamate connectors, so a revised design with added height was needed for these applications.

Datamate®

HRi RANGE

DATAMATE J-TEK EXTENDED HEIGHT - HIGHER BOARD STACKING



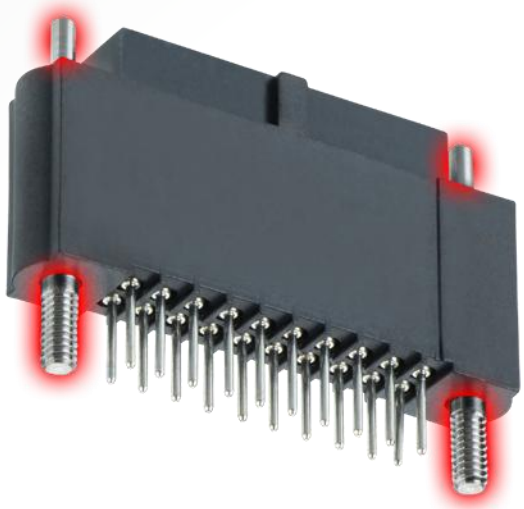
The extra height on the Female Receptacle connector gives a board-to-board stacking height of 17.15mm when mated with the Male Plug straight throughboard connector – an increase of nearly 10mm.

This allows more room between PCBs for board components taller than 7.3mm, or for cables to be routed or terminated on the inside faces of these boards.

Datamate®

HRi RANGE

FEATURES - GUIDE PINS AND BOARD MOUNT



Stainless steel guide pins help with the board-to-board mating – they fit into any Male Plug internal threaded jackscrew.

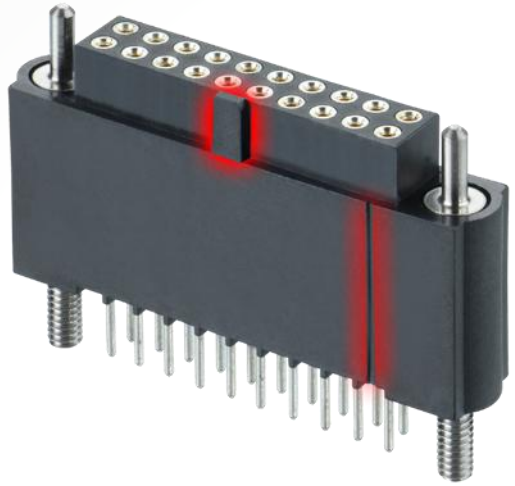
Under the connector, 5mm long threaded studs (combined with nuts available separately) provide strain relief for the soldered terminations. Tighten the nuts to 22cmN torque for resistance long-term against vibration and shock.

The throughboard terminations are 4.4mm long, use in any board thickness up to 3.2mm.

Datamate®

HRi RANGE

FEATURES - SHROUDED, POLARIZED, NO. 1 CONTACT



All the extended height Datamate J-Tek Female Receptacle connectors have individually shrouded socket contacts and an easy-to-see side polarizing feature. These features are identical to the standard height connectors, and are compatible with the Male Plug connectors in the Datamate J-Tek family.

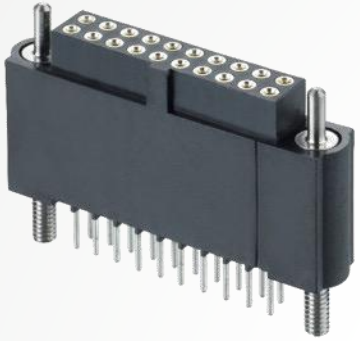
The housings also have an ident stripe built in, to identify contact number 1. Check the C005 Component Specification for the full numbering system.

Datamate®

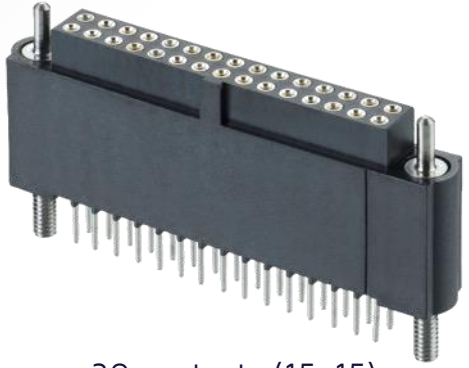
HRi RANGE

AVAILABLE PRODUCT RANGE – FEMALE RECEPTACLE CONNECTORS

10 contacts (5+5)



20 contacts (10+10)



30 contacts (15+15)

Currently there are 3 contact count options for Female Receptacle extended height connectors in the Datamate J-Tek range.

Gold on contact area, Tin on terminations:

- M80-4TE1042F3 – 10 contacts (5+5)
- M80-4TE2042F3 – 20 contacts (10+10)
- M80-4TE3042F3 – 30 contacts (15+15)

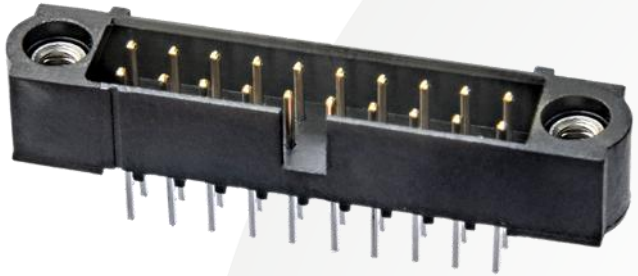
Gold on contact area and terminations:

- M80-4TE1005F3 – 10 contacts (5+5)
- M80-4TE2005F3 – 20 contacts (10+10)
- M80-4TE3005F3 – 30 contacts (15+15)

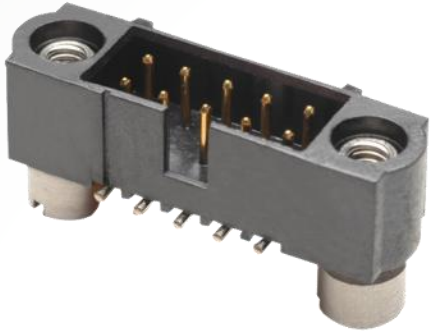
Datamate®

HRi RANGE

COMPATIBLE MALE PLUG CONNECTORS



Throughboard



Surface Mount

The extended Female Receptacle connectors are compatible with any of the Male Plug straight PCB connectors in the J-Tek family, including:

Male Plug Throughboard (for 17.15mm stack height):

- M80-500 series – internal jackscrew, 3mm termination
- M80-510 series – board mount jackscrew, 3mm termination
- M80-511 series – board mount jackscrew, 4.5mm termination

Male Plug SMT (for 17.4mm stack height):

- M80-502 series – internal jackscrew
- M80-512 series – 3.5mm board mount jackscrew
- M80-513 series – 5mm board mount jackscrew

Datamate®

ACCESSORIES

Slotted

Hexagonal

The extended height connectors are not supplied with the board mount nuts for termination strain relief – these will need to be ordered separately:

- M80-2130000B – Slotted M2 board mount nut
- M80-2430000B – Hexagonal M2 board mount nut

Datamate®

HRi RANGE

ELECTRICAL SPECIFICATIONS

Current Rating	**3.3A** max (single contact) **3.0A** max (all contacts)
Working Voltage	**800V** DC or AC_{peak}
Voltage Proof (Maximum Voltage)	**1,200V** DC or AC_{peak}

The Datamate range is a professional connector system aimed at Commercial or COTS prices. It is field-proven in tough terrains and environments, from underground to outer space. The current rating exceeds the levels normally expected from a 2mm pitch connector system.

The full Datamate Component Specification is available to download from the Harwin website.

Datamate®

HRi RANGE

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Vibration	**10g** for 6 hours
Shock	**100g**
Durability	**500** mating cycles
Temperature Range	**-55°C to +125°C**

The above specifications secure the reputation of the Datamate range as a High-Reliability connector. Multiple Test Reports for Datamate are available from the individual product pages at Harwin.com.

Datamate®

HRi RANGE

MARKETS

Rugged, high-reliability connectors continue to be in strong demand in many varied environments. Small enough to be used in handheld and portable applications, yet high-powered enough to meet the demands of large-scale equipment, Datamate continues to find new applications and new product uses in existing and new customers.

- Aerospace
- Autosport
- Military
- Robotics
- Oil & Gas

LEARN MORE ABOUT OUR OTHER RANGES

Find out more about our full range of inter-connection solutions at www.harwin.com

HARWiN

GET HELP FROM A HARWIN EXPERT

Our experts are specialists in their field with many years of experience in their respective roles and industries.

Find an expert that can help you with your enquiry.

Click Here >>

CAD Models and Evaluation Samples also available at www.harwin.com

HARWIN

HARWiN

CONNECT TECHNOLOGY
WITH CONFIDENCE

E: support@harwin.com

WWW.HARWIN.COM