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In2Connect

McMurdo 'Special' D connectors (100 operations)
 Cost effective D connectors with gold plated, stamped and formed contacts. 90° PCB version with integral solderable board locks to effect retention and grounding whilst the circuit board is processed. Solder bucket, straight or 90° PC termination styles. Threaded inserts on 90° PC version as standard accept a wide range of mounting hardware. Yellow chromate steel or tinned and dimpled shell for EMI grounding.



Edgecard connectors 0.100", 0.125", 0.150" and 0.156"

Modular 0.1" pitch and 'discrete' edgecard connectors. Sizes from 2 to 85 contacts single, or 4 to 170 dual readout. Available with solder eye, straight or 90° PCB, extender card or wire wrap terminations. The 140° C moulding has a choice of mounting configurations and polarising keys. Designed for 100 or 250 operations. Selective or fully plated contacts. 'Burn-in' connectors capable of 220°, 240° or 260°C can be manufactured to order.



DIN 43650 solenoid connectors

Industry standard, 2 and 3 contact, panel and cable mounting, vibration proof, gasket-sealed screwlock connectors; IP 65 sealable Forms A, B and C. Form A, Form B, and Form C, have 18 mm, 10 mm, and 8 mm contact separations, respectively. Their black, grey or transparent body mouldings are suitable for ambient temperatures from -40 to + 125°C and the screw type; snap-inserted, silver plated contacts are rated at 10 Amps. Right angled cable-mount models are available, with rewirable or overmoulded cable options ~ to order in PVC and Polyurethane.. Sockets are available with in-built electronic components in a host of protection circuit configurations; incorporating LED indicators, varistors, diodes rectifiers etc. for overvoltage protection,



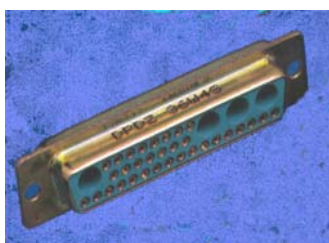
DIN 41612 and 41617

These very popular two part PCB edge connectors were designed to provide a reliable yet inexpensive PCB interconnection. Available in Class II (suitable for 400 operations), versatility comes from a choice of between 15 and 96 press-fit (DIN 41611 Part 5) or solder contacts; standard and reverse DIN; mixed layout and full or partial contact loading. Dual leaf socket contacts ensure reliability, whilst protective 'first mate last break' pre-mate contacts and screw machined boardlocks can be included. The DIN 41612 and sister series DIN 41617 are suitable for a wide range of applications.



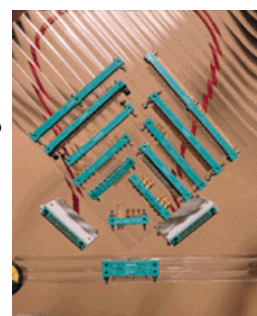
Mixed Layout D

Mixed layout, D connectors offer integration of signal, 50/75 ohm coax, High Power and High Voltage contacts in one shell. The screw machined signal contacts can include solder bucket, solder pin, wire wrap and crimp. Connector variations include polarised shells, diverse mounting options including cable and PCB, standard fixing holes, float mount and fitted screwlocks. Mixed layout connectors can have factory 'fitted' contacts to eliminate inventory and assembly errors.



HE801/Series 127 mixed layout PCB connectors

Designed for maximum versatility in board layout, these two part PCB type connectors utilise a 1.27mm (0.05") staggered pitch with 2.54mm (0.1") between rows. The signal connectors are available in 9 sizes and from 17 to 96 ways. The connector moulding can have from 3 to 6 cavities capable of accepting either coaxial or High Power contacts from 5+3 to 53+3 combinations. Coaxial contacts are available for frequencies up to 2GHz, power up to 25A. All contacts are removable/replaceable. There is a wide range of termination, jacking and polarising options. Much used in high reliability scenarios like Railways, Avionics, Radar and underwater sonar electronics.



MIL-C Circular connectors

High (38999), Medium (26482) and Low Density (5015) multi-pin, screw threaded or bayonet locking, circular connectors used in commercial, military and aerospace environments including sensors, mobile military equipment, radios, trucks, ships, aircraft, tactical missiles and fighting vehicles; as well as robotics, communications, medical equipment and machine tools. Pin densities to 150 and voltages from 'Instrument' to 300 and 500 rms.



CMM 220, 2mm pitch connectors

The CMM220 is a cost-effective 2mm pitch, mixed layout connector with proven high reliability under extreme environmental conditions including vibration. A choice of High Frequency, High Power, LF signal and optical fibre configurations are possible in the same moulding. An integral jacking mechanism ensures security in use whilst the high temperature insulator allows infra red or vapour phase soldering techniques. The CMM220 has been developed for the aerospace, instrumentation and control, military and transportation markets.



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'ept' Hard Metric 2mm connectors

The ept line of 2mm 'Hard Metric' connectors are classic, reliable two piece pin and socket connectors that offer a full range of configurations to meet CompactPCI™ applications. The newest specification for PCI-based industrial computers, CompactPCI™ utilises the Eurocard form factor popularized by the VME bus. ept 'hm' 2mm is a gas tight, high density pin-and-socket connector which meets the IEC-1076 international standard. Its low inductance and controlled impedance make it ideal for PCI signalling. The connector has 47 rows with 5 pins per row giving a total of 220 pins (15 pins are lost to the keying area). An additional external metal shield is also provided. The large number of ground pins ensures adequate shielding and grounding for low ground bounce and reliable operation in noisy environments. The connector's controlled impedance minimizes unwanted signal reflections and enables CompactPCI™ systems to have eight slots, as compared to the desktop PC's four. With CompactPCI™ PCBs can be exchanged without problems from system to system.

Important parameters like fixing, shielding and coding remain compatible to all applications. ept offers different types with inverted mating configuration. The male connector is a fixed module at the backplane and the female connector is a free component of the plug-in module. The male connector has 5 signal rows and 2 shielding rows. A male connector version with 8 signal and 2 shielding rows is also available.

The outer shielding rows 'z' and 'f' of the male connector engage the shielding contacts of the female connector. The shield is also designed for gas tight, press-fit installation.

The six basic ept 'hm' 2mm connector types can be assembled end to end in any order to cover most eventualities. The connectors are designed to "nest" with each other, which provides additional support for the side walls when fitted in longer runs.

The connector system offers 15 press-fit contact lengths. Within the 15 contact lengths are 3 mating levels, achievable on both the plug-in and rear I/O side. Press-fit contacts avoid exposing high layer count PCBs to the thermal stress of soldering.



ept
...the better connection

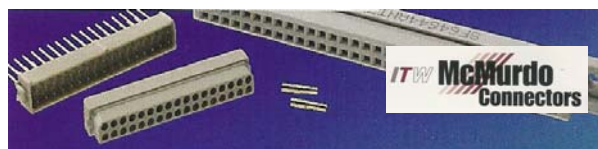
McMurdo Red Range

These cost efficient rack and panel connectors are capable of handling 5 Amps per contact (all contacts simultaneously) at 100°C ambient and 750V rms. The moulded high impact DAP insulator will withstand -50°C to 125°C. Rugged and heavy duty they are superb in industrial/commercial equipment like bank ATM, vending and office machines, gaming equipment, mobile radios, TV cameras and industrial control applications where larger gauge wires of up to 16AWG are required. The strong, low insertion force, self-wiping contacts are designed such that the plug and socket will self-align, making them ideal as power edge card connectors for inaccessible applications such as the rear of sliding trays and panels, on cable ends or even as battery connections in hand held measuring instruments.



Micronector 200/300

This range of high density, low frequency, connectors is a low cost 2mm pitch product with proven reliability, enabling 'Board-to-Board', 'Board-to-Wire', or 'Wire-to-Wire' interconnections. The 2mm pitch layout and low profile of 10mm enables a 40% space saving over conventional 2.54mm systems. An optional spring latch is available to ensure security of interconnection between mated pairs. Available with male straight and 90 degree p.c. terminations and female straight p.c. and crimp terminations. Approved to BS 9525 - F0033.



Cable Harnessing

In2Connect have over 40 years experience in advising on specification and design of high performance cables and connectors to solve customers' specific interconnect problems. To add value to our connector offering we can supply UK manufactured, 100% tested, labelled and bagged cable assemblies in low or high volume and will supply to the exact length required. We are able to convert any of our connector products into cost-effective, quality cable assemblies ~ connector to connector, connector to open end, or panel to almost anything ... saving you TIME plus the cash outlay in expensive machinery or materials wastage.



In2Connect

'ept' PC/104 Plus press-fit connectors

The stackable PC/104 bus enables additional PC/104 modules to be added to a single board computer

ept has developed a new electromechanical connection with the 'PC/104 Plus' press-fit technology connector system. This connector system presents the J3 PC/104 Plus spec connector in a 2mm grid. ept offers female 4x30 contact connectors, 4x30 contact shrouds, and 2x30 contact pin headers as a standard.

ept PC/104 Plus press-fit connectors offer a large number of advantages: Male and Female connectors can be pressed in with the same ept press-fit tool in one single step ~ offering significant time-savings in production whilst female connectors can be mounted cost-effectively using flat press tool technology.

- *No costly manual soldering
- *No solder bridges
- *Shroud makes stand-offs unnecessary
- *Secure assembly of shroud and board by over pressing on the connector tails.

