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HARWIN

CONNECT TECHNOLOGY
WITH CONFIDENCE

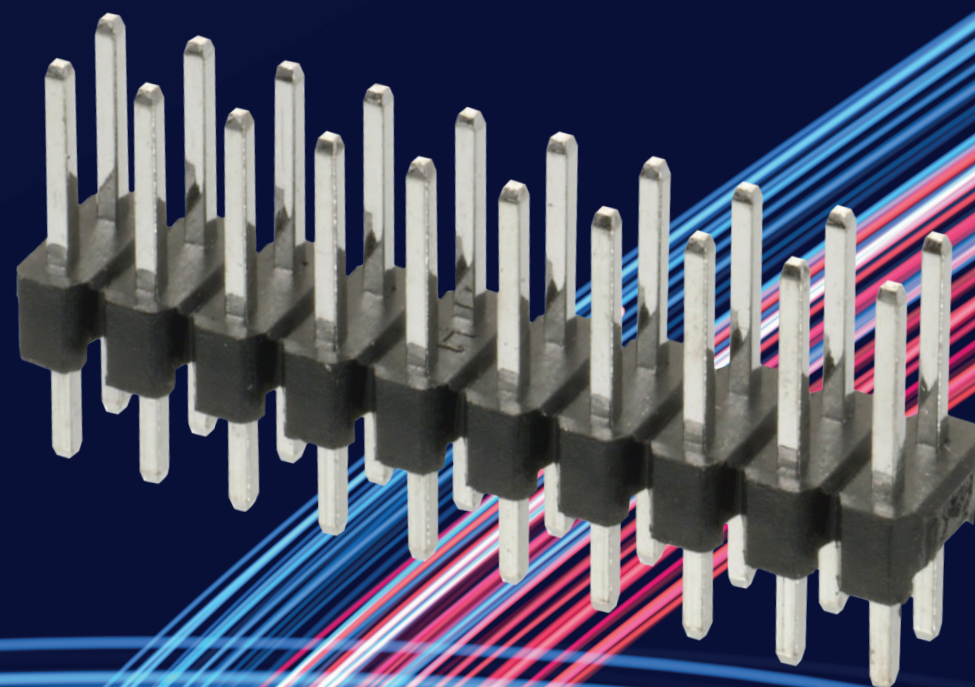


BBi
RANGE

 **INDESS**

PIN HEADER / SOCKET CONNECTORS

2.54MM (.1") AND 2.00MM (.079") PITCH



HARWIN

 **INDESS**

BBi CONNECTORS FROM HARWIN.

DEPENDABLE PERFORMANCE AND VARIETY

Reliable all-purpose connectivity with cost-effective simplicity.
Stocked in depth across the global distribution network.
Compatible with industry-standard designs.

The 2.54mm pitch connector has been a cornerstone of modern electronics for over 60 years. The 2.00mm pitch connectors were added shortly afterwards in the drive for miniaturization – same design, but over 20% smaller.

These connectors are the ultimate in basic and functional design. Male plugs consist of square pins held in place by a plastic carrier strip. Female receptacle twin-beam connectors are enclosed in a rectangular protective housing.

Throughboard and Gull-wing SMT terminations, straight and right-angle orientations, single and double row in both ranges. Contact counts from 2 to 100 are available.

Cable contacts are supplied in reeled carrier format, ideal for automated crimping. Loose contacts are also available, with hand crimp tools for low volume production or prototype builds.

FEATURES

- Dependable and reliable, easy to use
- Compatible with industry standard equivalent connectors
- Quality cost-effective connections

APPLICATIONS

- Embedded computing
- Factory automation
- Consumer electronics
- Metering and monitoring



VIEW M20 (2.54MM, .1") **HERE**



VIEW M22 (2.00MM, .079") **HERE**



SPECIFICATIONS

MATERIALS	ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Housings: Standard or High Temperature Plastic, UL94V-0	Current per contact: 3A max (M20 connectors) 2A max (M22 connectors)	Durability: 300 mating cycles (Gold, Gold + Tin) 50 mating cycles (Tin)	Operating temperature: -25°C to +105°C min (PCB) -25°C to +85°C (cable)
Contacts: Copper Alloy	Maximum voltage: 500V AC min	Insertion force (per contact): 2.0N max (M20 connectors) 2.9N max (M22 connectors) 14.5N max total (Jumper Sockets)	
Contact Finish: Gold, Tin, or selective Gold + Tin	Insulation resistance: 500MΩ min	Withdrawal force (per contact): 0.2N min (Connectors) 1N min total (Jumper Sockets)	Compliance: RoHS Compliant REACH / CMRT statements
		Pitch: 2.54mm / .01" (M20 connectors) 2.00mm / .079" (M22 connectors)	

Specifications are subject to change.



VIEW M20 (2.54MM, .1") [HERE](#)



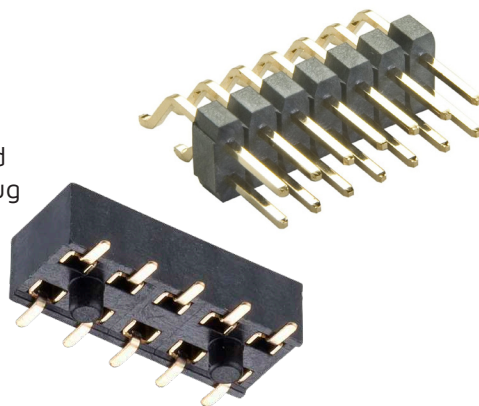
VIEW M22 (2.00MM, .079") [HERE](#)



PRODUCT CATEGORIES

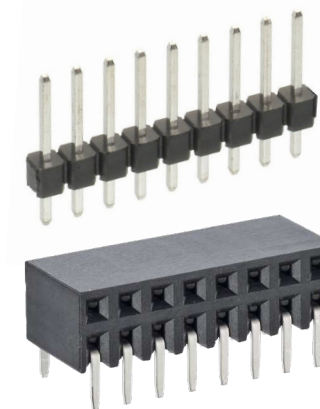
M20 SMT CONNECTORS

Gull-wing terminations for easy solder joint inspection. Straight and right-angle orientation for male plug and female receptacle connectors. Single and double row designs.



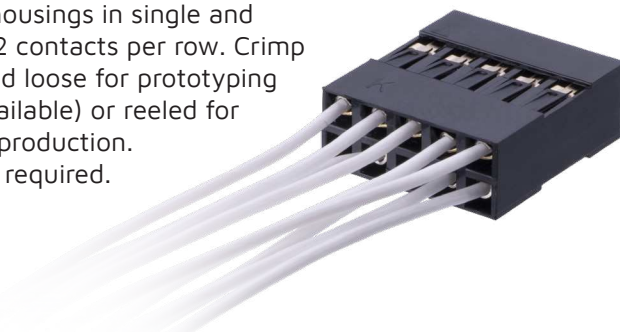
M20 THROUGHBOARD CONNECTORS

Use male plug pin headers with jumper sockets for on-board hardware programming. Straight and right-angle for male plug and female receptacle connectors. Single and double row designs. Jackscrews are supplied assembled to the housings.



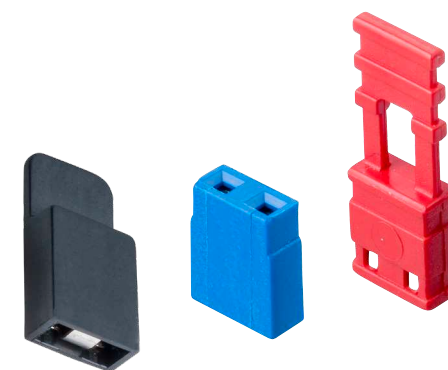
M20 CABLE CONNECTORS

Female receptacle housings in single and double row, up to 12 contacts per row. Crimp contacts are supplied loose for prototyping (hand crimp tool available) or reeled for automated volume production. No insertion tooling required.



M20 JUMPER SOCKETS

Use with pin headers for on-board hardware programming. Available closed or open-ended, or with handles for added convenience. Choice of colors.



Specifications are subject to change.



VIEW FULL SERIES & SPECIFICATIONS [HERE](#)

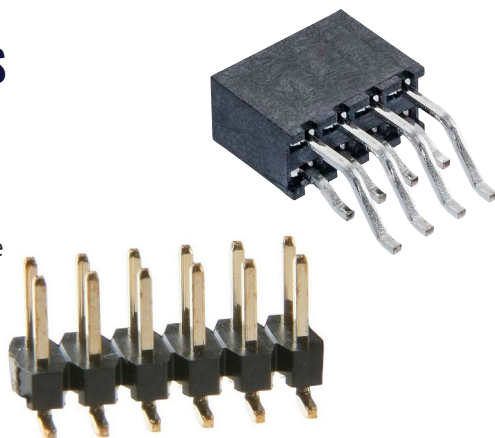




PRODUCT CATEGORIES

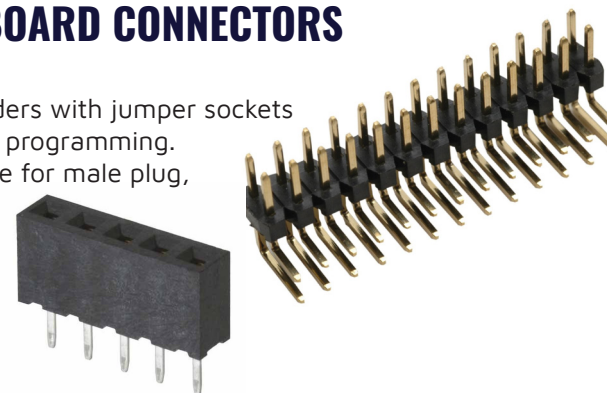
M22 SMT CONNECTORS

Gull-wing terminations for easy solder joint inspection. Straight and right-angle orientation for male plug and female receptacle connectors. Single and double row designs.



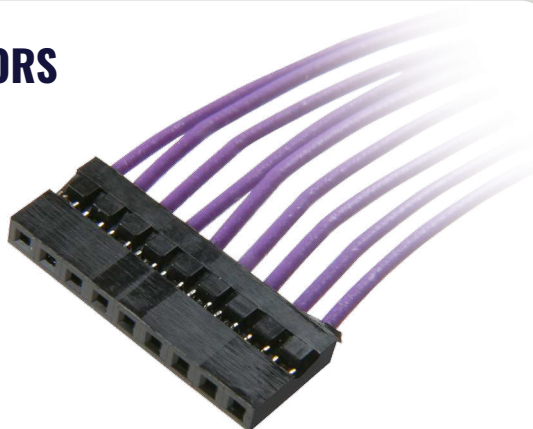
M22 THROUGHBOARD CONNECTORS

Use male plug pin headers with jumper sockets for on-board hardware programming. Straight and right-angle for male plug, straight for female receptacle connectors. Single and double row designs.



M22 CABLE CONNECTORS

Female receptacle housings in single and double row, up to 20 contacts per row. Crimp contacts are supplied loose for prototyping (hand crimp tool available) or reeled for automated volume production. No insertion tooling required.



M22 JUMPER SOCKETS

Use with pin headers for on-board hardware programming. Available open-ended, with a choice of colors.



Specifications are subject to change.



VIEW FULL SERIES & SPECIFICATIONS [HERE](#)





DOWNLOADS

TECHNICAL DOCUMENTS

M20 Component Specification



M20 Jumper Sockets Component Specification



M22 Component Specification



M22 Jumper Sockets Component Specification



PRODUCT TRAINING

Product Training Module (PTM)



M20 Hand Crimp Tool Instruction Sheet



M22 Hand Crimp Tool Instruction Sheet



TEST REPORTS

HT063 – M20-782 General
(Electrical, Mechanical and Environmental)



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VIEW M20 (2.54MM, .1") **HERE**



VIEW M22 (2.00MM, .079") **HERE**

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FOR FURTHER INFORMATION PLEASE CONTACT:

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