

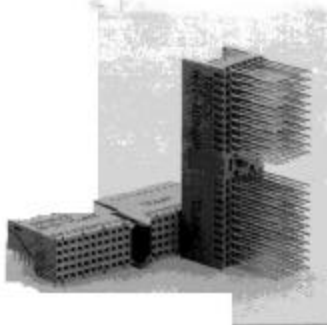
APFEL – 2.0mm HARD METRIC CONNECTORS

APFEL 2.0mm Hard Metric Connector Series

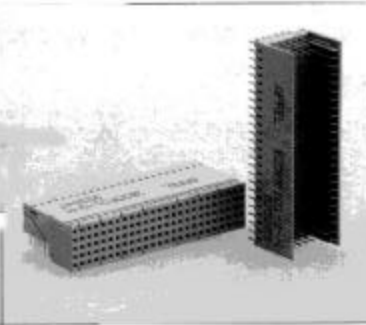
Overview

Apfel 2.0mm HARD METRIC CONNECTOR MODULES comply with international IEC 917 and IEC 61076-4-101 standards. The connector system is designed and manufactured to meet the emerging trend of higher density and faster signal transmission in the electronic industries and ideal for application in the telecommunication, industrial PC.

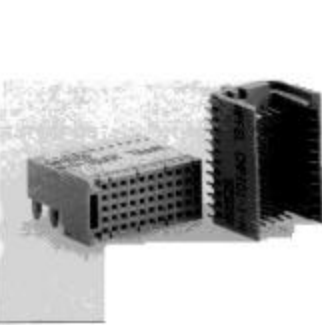
Type A Connectors



Type B Connectors



Type C Connectors



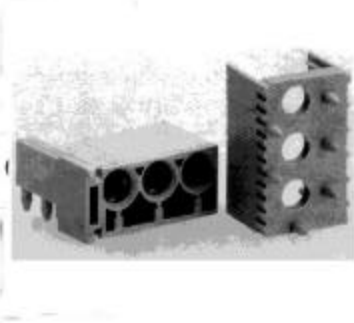
Type L Connectors



Type M Connectors



Type N Connectors



Shrouds



Coding keys



Shielding Covers



Apfel-Europe (a division of Westfield Distribution Ltd) (E&OE)

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Disclaimer – Due to technical progress, all designs, specifications, data sheets and components are subject to change without notice. All product information contained in this catalogue / data sheet is for information only – NOT SPECIFICATION. Please call / fax / e-mail for samples and full engineering drawings. Certificates of conformance issued if required.

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Features and Specifications:

The two-pieces connector modules are in basic 2.0mm grid.

- The full series is with the press-fit compliant termination.
- Inverse mating configuration.
- This high density connector modules can be stacked end to end without loss of space.
- It provides 3 mating levels and the difference between two levels is 1.5mm.
- The min. wiping length is 2.5mm.
- The international standard coding system (MPC) which is stipulated in the IEC61076-4-101.
- Shielding and grounding
- 2 outer rows (row z and f) of male modules are to engage with the shielding plates of female modules.
- The recommended plated through hole 0.6+/- 0.05mm for the press-fitting.
- The 2.0 hard metric connector series is ideal for the application of subnano seconds signal risetime
- Apfel developed the 2.0mm series under thorough consideration of impedance match, propagation delay, cross talk, reflection. It is the ideal connector for digital high speed data application.
- Compliant press-fit design for all male and female connectors.
- End to end stackable, pins are in 2.0mm grid, real estate saving.
- 5 signal rows plus 2 outer rows for shieldings.
- Male connectors with 3 different contact levels.
- Min. contact range of 2.5mm for shortest pins.
- Coding system prevents mix-up and wrong mating between male and female connectors.
- The 2.0mm hard metric connectors and DIN 41612 connectors can be used on the same PC board as both have the same mating distance.
- Pin and socket interconnect mechanism.
- Coding mechanism providing positive keying
- Staggered make-break pin populations for optional hot-swap capability.
- Rear pin option for through-the-backplane I/O application.
- High density PCI capability.
- Shield for EMI/RFI protection.
- Expandability for end user application.

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Mechanical and Electrical Characteristics

Mechanical Specifications

Grid Size	2.0 mm
Operating Temperature	-55 C to + 125 C
Insulation Material	Glass filled Polyester, UL 94V-0
Contact Material	Phosphor Bronze
Air and Creepage Distance	Male 0.8mm, Female 0.6mm
Contact Levels	5.3mm - Level 1 6.8mm - Level 2 8.3mm - Level 3
Mating Force per Signal Contact	N X 0.75N Max.
Mating Force per Shield Contact	N X 1N Max.
Withdrawal Force	0.15N Min.
Termination Technique Misalignment	Compliant Press-Fit Longitudinal +/- 2.0mm Latitudinal +/- 2.5mm
Inclination	+/- 2 degree

Electrical Performance

Current Rating	1.5A at 20 C, 1.0A at 70 C
Test Voltage	750 Vrms
Contact Resistance	20m Ω Max.
Insulation Resistance	10 ⁴ M Ω Min.

Recommended P.C.B Plated Through Holes

Drilled Hole	\varnothing 0.69–0.72mm
Cu	Min. 25 μ m
Sn	5–15 μ m
Plated Through Hole \varnothing	0.55–0.65 mm

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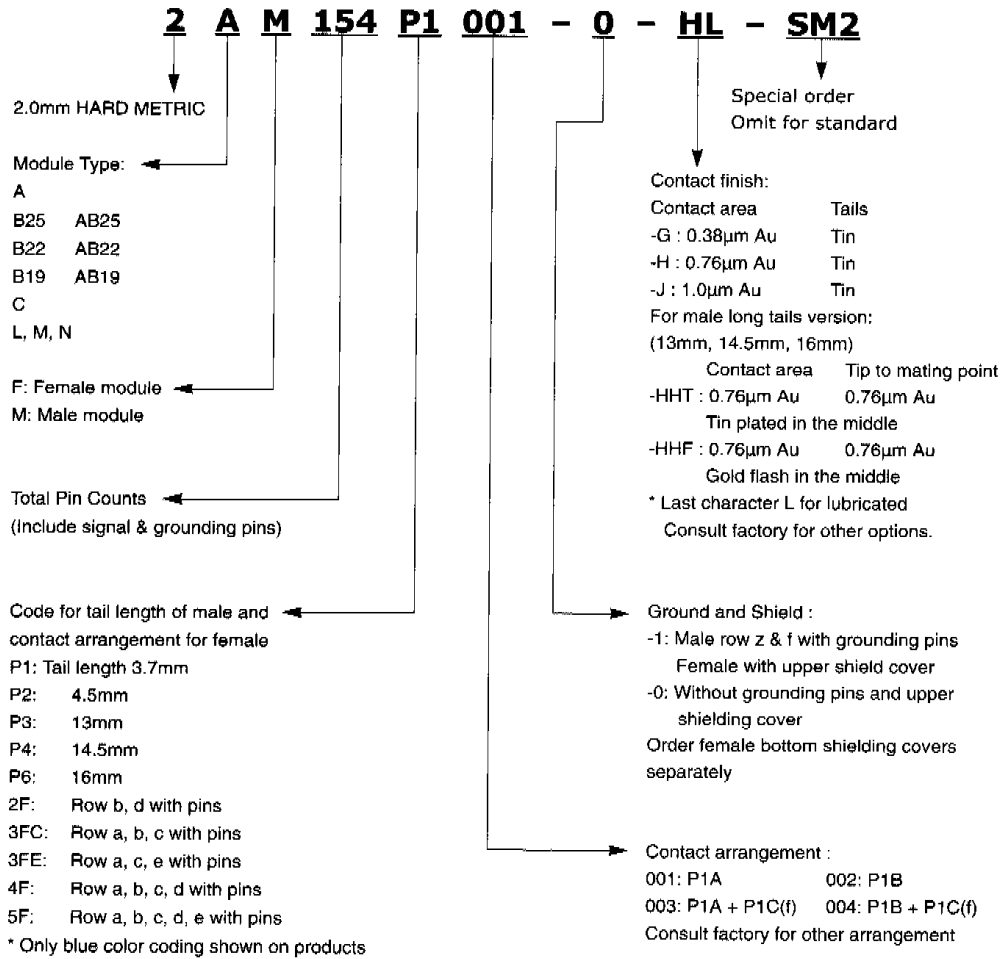
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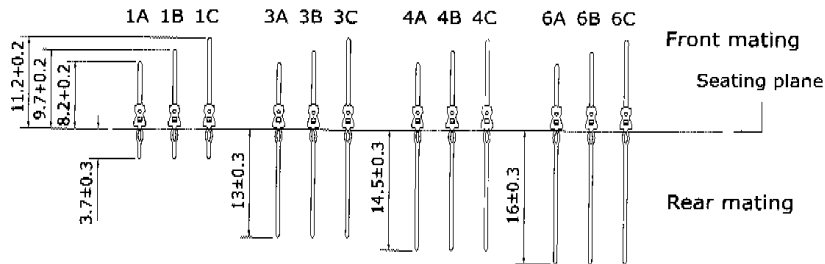
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Ordering Information



Male Contact Options



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