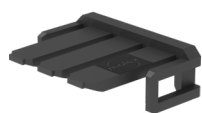




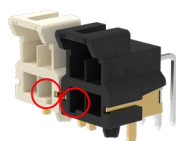
FIT FAMILY CONNECTORS >

FEATURES AND ADVANTAGES



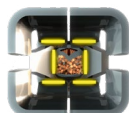
TERMINAL POSITION ASSURANCE (TPA)

Helps ensure terminals are fully seated in their housing to reduce back-out; retains terminals if main retention feature fails; improves the quality of assembly to avoid back-out issues and therefore can save on costs.



POLARIZATION AND KEYING

Reduces the possibility of misalignment; virtually eliminates misalignment and significantly reduces the number of errors associated with improper installation.



MULTIPLE CONTACT POINTS

Provides a variety of critical contact points between the terminal and the mating contact-point application; multiple current paths have significant advantages over contact systems with fewer paths or with only two paths.



TANGLESS TERMINALS

Protects terminals for manufacturers and cable harness assembly teams during packaging and assembly insertion; saves time and money by reducing failures associated with locking wings on electrical terminals.



REFLOW-CAPABLE HEADERS

Reduces processing requirements and costs; reflow soldering is reliable and effective for all pitches of leads and pads, enabling very high-quality circuit boards to be manufactured.



CONNECTOR POSITION ASSURANCE (CPA)

Assists with mating retention force; helps ensure proper alignment of wires and housing, improving latching function and providing a cost-effective solution.

PRODUCT OVERVIEW

A wide range of OEMs require power connectors that also support design flexibility. To meet these needs, Fit Family Connectors offer colored polarized housings with isolated terminals, TPAs, positive locks and tangless terminals.

ADDITIONAL FEATURES

POSITIVE LOCKS

These help ensure mated connector assemblies will not accidentally disengage; indicate to the operator through an audible click that the part is fully mated.

SCOOP PROOF

Contacts are designed to protect critical contacts from damage associated with mating and un-mating.

FULLY ISOLATED CONTACTS

These inhibit arcing between contacts and afford the use of higher voltages as well as better electrical isolation between adjacent contacts.

SEALED PROTECTION

Mini-Fit Sigma Sealed Connectors provide protection from water, foam and debris ingress.

REFLOW CAPABLE HEADERS

This allows for through-hole headers to be used in higher temperature soldering processes, while reducing processing requirements and costs.

BLIND MATING INTERFACE (BMI)

Self-aligning interface enables the operator to mate connectors in hard to reach areas. This option helps to prevent misalignment and reduces the number of errors associated with improper installation.

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FIT FAMILIES

	Nano-Fit	Micro-Fit	Micro-Fit+	Ultra-Fit	Mini-Fit	Mini-Fit Sigma	Mini-Fit Max	Mega-Fit
Pitch	2.50mm	3.00mm	3.00mm	3.50mm	4.20mm	4.20mm	4.20mm	5.70mm
Style	Wire-to-Board Wire-to-Wire Wire-to-Panel	Board-to-Board Wire-to-Board Wire-to-Wire Wire-to-Panel	Wire-to-Board Wire-to-Wire Wire-to-Panel	Wire-to-Board Wire-to-Wire Wire-to-Panel	Board-to-Board Wire-to-Board Wire-to-Wire Wire-to-Panel	Wire-to-Board Wire-to-Wire Wire-to-Panel	Wire-to-Board Wire-to-Wire (in development)	Wire-to-Board Wire-to-Wire Wire-to-Panel
Circuit Size	2 to 16	2 to 24	2 to 24	2 to 16	2 to 24, 36	2 to 18	2 to 12	2 to 12
Wire Gauge	26 to 20 AWG	30 to 18 AWG	30 to 16 AWG	22 to 16 AWG	28 to 16 AWG (double-crimp options)	24 to 16 AWG (double-crimp options)	16 to 14 AWG	10 to 16 AWG (double-crimp options)
Current (max.)	8.0A	10.5A	13.0A	14.0A	13.0A	13.5A	20.5A	30.0A
Voltage (max.)	250V AC	600V AC	600V AC	600V AC	600V AC	600V AC	600V AC	600V AC
Soldering	Through Hole SMT	Through Hole, SMT, Through Hole CPI, Through Hole Kinked Pin	Through Hole SMT	Through Hole	Through Hole, SMT, CPI	Mates with Mini-Fit Headers	Through Hole SMT (in development)	Through Hole
Operating Temperature (max.)	Tin/Gold +125°C	Tin 105°C Gold +125°C	Tin/Gold +125°C	Tin/Gold +125°C	Tin 105°C Gold +125°C	Tin +105°C *Tin HCS Gold +125°C	Tin +105°C	Tin +105°C Gold +120°C
Blind Mating	Yes	Yes	No	No	Yes	No	No	No
Colors/Key	Black, Natural	Black	4 colors/ 4 keys for Micro-Fit+ (Versa Color range)	Black, Natural 2 keys	Black, Natural 1 key Versa Color 1 key/4 Colors	Black 1 key	Black 1 key	Black 1 key Versa Color NPR 'Natural', Blue, Red,

* See Product Spec for +125C Mini-Fit PCB headers approved for use: 2029880002-PS



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