

Minitek® Pwr 2.5

Product Presentation

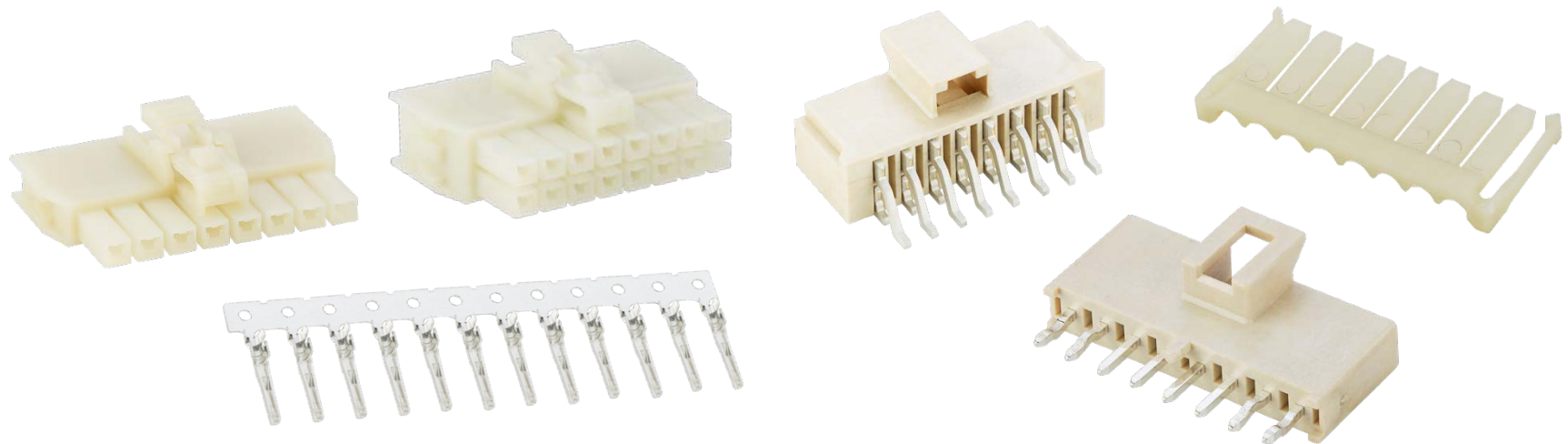
Amphenol Information Communications
and Commercial Products

 **FCi Basics**

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1. Value Proposition
2. Product Specifications
3. Features & Benefits
4. Part Numbers
5. Markets & Application

- Minitek® Pwr 2.5 is a space-saving and comprehensive solution designed for power application with current rating up to 6.5A per circuit. It is available in 4 to 16 circuits in dual row and 2 to 8 circuits in single row.
- The connector uses crimp, snap-in header and receptacle contacts that are used to terminate 26AWG-20AWG wires.
- Minitek® Pwr 2.5 features polarized mating geometry, this helps to prevent mismating. It offers a wide operating temperature, ranging from -40°C to 105°C, making it suitable for a wide range of applications. The scoop proof housing prevents terminals from damage.



Product Facts

- Wire-to-board connectors with 2.5mm centerline.
- Easy mate and unmate with positive latch design.
- Dual row, 4-16 positions
- Single row, 4-8 positions
- Solution vertical / through hole pin header and R/A through hole and SMT
- Available in UL94V-0 flammability rated LCP
- Products are lead free and Halogen Free to help promote a cleaner environment
- UL pending
- Available Glow Wire Compatible

Performances

- Current Rating: Up to 6.5A
- Insulation Resistance: 1000M Ω min.
- Voltage Rating: 250V rms

Environmental

- Operating temperature range: -40°C to +105°C

Mechanical Performances

- Mating Force:
Tin plated: 3.5N / Gold plated 1.25N per circuit max.
- Unmating Force:
Tin plated: 1.0N / Gold plated 0.5N per circuit max.
- Durability:
Tin plated 25 cycle / Gold plated: 50 cycles

Mechanical Performances

- Product Specification: GS-12-1456
- Package Specification: GS-14-2610

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
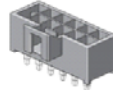
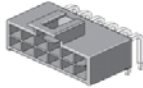

Features & Benefits



Features	Benefits
<ul style="list-style-type: none">▪ High current alloy material used for contact	<ul style="list-style-type: none">▪ Rated up to 6.5A per contact
<ul style="list-style-type: none">▪ Small pitch for wire-to-board application	<ul style="list-style-type: none">▪ 69% PCB space savings
<ul style="list-style-type: none">▪ Fully isolated terminals	<ul style="list-style-type: none">▪ Prevents terminals from potential damage during operation
<ul style="list-style-type: none">▪ Positive locking on housing with low thumb latch operation	<ul style="list-style-type: none">▪ Ensures secure mating retention
<ul style="list-style-type: none">▪ Fully polarized housings	<ul style="list-style-type: none">▪ Prevents accidental mismating
<ul style="list-style-type: none">▪ Scoop-proof housings	<ul style="list-style-type: none">▪ Ensures terminals and header pins are not damaged for angled mating
<ul style="list-style-type: none">▪ High retention force in housing	<ul style="list-style-type: none">▪ Well secured terminals in the housing
<ul style="list-style-type: none">▪ Post-plated terminal	<ul style="list-style-type: none">▪ Prevents environmental corrosion such as salt spray and gas corrosion
<ul style="list-style-type: none">▪ Glow wire compliant option	<ul style="list-style-type: none">▪ Complies with International Standard IEC 60335-1 for household appliances
<ul style="list-style-type: none">▪ UL94V-0 flammability rated LCP material	<ul style="list-style-type: none">▪ High flammability rating
<ul style="list-style-type: none">▪ RoHS compliant and lead-free	<ul style="list-style-type: none">▪ Meet environmental, health and safety requirements
<ul style="list-style-type: none">▪ Halogen-free resin material	<ul style="list-style-type: none">▪ Meets environmental standards

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Part Numbers

AFCi P/N	Configuration	Row	Positions	Plating	Product View	intermateable/ interchangeable
10146583	Terminal Female	N/A	N/A	Tin 15u" Gold 30u" Gold		105300
10146579	Rece. HSG	Single	2-8	N/A		105307
10146580	Rece. HSG	Dual	4-16	N/A		105308
10146242	Vertical TH	Single	2-8	Tin 15u" Gold 30u" Gold		105309
10146581	Vertical TH	Dual	4-16	Tin 15u" Gold 30u" Gold		105310
10146582	Right Angle T/H	Dual	4-16	Tin 15u" Gold 30u" Gold		105314
10146243	Right Angle SMT	Dual	4-16	Tin 15u" Gold 30u" Gold		105405

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Main Markets & Applications



- Commercial Vehicle
- Lighting and automation
- Machinery and heavy equipment
- HVAC systems
- Power supplies
- Fan modules
- Security systems
- Traffic control devices



- 1U Rack Box
- Customer Premises Equipment
- Generic Telecom Box
- Interface Converter
- WiMax Box



- HDD
- Rack- Mount Server
- Server
- Desktop PC and Mother Board



- Set Top Box
- Refrigerator
- Air Conditioning

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THANK YOU