

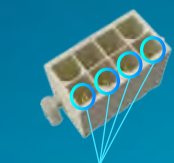
Minitek® Pwr Connector System

The complete solution for wire-to-wire and wire-to-board needs

Durability



Design Feature for Low Mating Force
Flexing Beam Design enables for Low Insertion Force during Mating



Fully Polarized Mating Interface



Scoop Proof Assembly
Scoop proof contacts protect contacts from being damaged during mating/unmating

Fuss-free mateability

Feature on Housing for Blind-mating applications



BMI- Blind Mate Interface

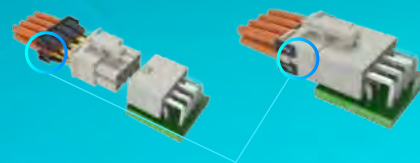
BMI provides a self-aligning feature molded into housings

Offers full range of options for every application and orientation

Reliable connection



Positive locking
Flexing Beam Design enables for Low Insertion Force during Mating



TPA (Terminal Position Assurance) WTB Version

Product Family

| | |
|------------------------------|----------------|
| Pitch | |
| Poles & Rows | Dual Single |
| Max Rating | Amp Voltage |
| Operating Temperature | |
| Wire Gauge (AWG) | |
| Housing material | |
| Header Configurations | |
| Header Terminations | |
| Application | |

| |  |  |  |
|------------------------------|---|--|---|
| | Minitek® Pwr 3.0 | Minitek® Pwr 4.2 | Minitek® Pwr 5.7 |
| Pitch | 3.00mm | 4.20mm | 5.70mm |
| Poles & Rows | 2 - 24 Pos (Dual) 2 - 12 Pos (Single) | 2 - 24 Pos (Dual) 3 - 5 Pos (Single) | 2 - 12 Pos (Dual) - |
| Max Rating | 12 Amps 600 V | 13 Amps 600 V | 23 Amps 600 V |
| Operating Temperature | -40°C to 105°C | -40°C to 105°C | -40°C to 120°C |
| Wire Gauge (AWG) | 16 - 30 | 16 - 28 | 12-16 |
| Housing material | LCP and Nylon | LCP and Nylon | LCP and Nylon |
| Header Configurations | Vertical & R/A | Vertical & R/A | Vertical & R/A |
| Header Terminations | TH, SMT & Pressfit | TH | TH |
| Application | WTW & WTB | WTW & WTB | WTB |
| Applications | Automotive lightings | Display Systems/Automotive lightings | - |
| | HMI, PLC, HVAC | Display Systems, Electrical Lighting, PSU | HVAC, Lighting, Vending Machine |
| | 1U Rackbox, WiMax Box | Router | - |
| | Rack Mount Servers, Blade Servers, Desktop PCs | FAN, Rack Mount/Servers PSU, GPU | Server (OCP), PDB in servers |
| | Smart Appliances | Security Cameras | Garage Door Openers |
| | Defibrillators, Patient Monitors, Ultrasound equipment's | Hospital Beds | - |

Applications





Minitek® Pwr 5.7

Current rating up to 23A

| PN | Configuration | Row | Positions | Plating |
|----------|---------------------------------|------|-----------|----------------------------------|
| 10142707 | Receptacle Housing (94 V-2) | Dual | 2-12 | NA |
| 10142708 | Vertical Through Hole Header | Dual | 2-12 | Tin 15µ"Gold 30µ"Gold |
| 10146997 | Right Angle Through Hole Header | Dual | 2-12 | Tin 15µ"Gold 30µ"Gold |
| 10158070 | Female Terminal | NA | NA | Tin 15µ"Gold 30µ"Gold Gold Flash |
| 10158453 | Receptacle Housing (94 V-0) | Dual | 2-12 | NA |



Minitek® Pwr CEM-5 PCIe®

12VHPWR auxiliary hybrid connector and cable assembly.

| PCIe CEM-5 | | |
|--------------------------------|--------------------------------|---|
| Right Angle Hybrid Header | Housing | Terminal |
| 10160920 12 Power + 4Signal | 10161719 12 Power + 4Signal | 10134160/10132447 (Power) 10161952 (Signal) |

| PCIe Aux | | | |
|--------------------|-----------------|--------------------|---------------------|
| Right Angle Header | Vertical Header | Receptacle Housing | Receptacle Terminal |
| 10147579 | 10147580 | 10147577 | 10147578 |



Minitek® Pwr 3.0

Wide range with Current Rating up to 12A

| Rows and Poles | | Headers | | | | | | | Plug | | Receptade | | | |
|---------------------------|-------------------|----------------|----------------------|---------------------------|-------------------------------|--------------------------------|------------------------------------|-----------------|--------------------|-------------------|----------------------------|----------------------|----------------------------|----------------------|
| | | Right Angle TH | Vertical TH | R/A SMT Tails & Hold Down | R/A SMT Tails & DIP Hold Down | Vertical SMT Tails & Hold Down | Vertical SMT Tails & DIP Hold Down | Vertical TH BMI | Right Angle TH BMI | VTH Metal Harpoon | Housing | Terminals | Housing | Terminals |
| Minitek® Pwr 3.0 Standard | Dual Row (2-24) | 10127720 | 10127721 | 10137924 | 10137925 | 10137926 | 10137927 | 10138980 | 10144754 | | 10127717 10160855 (BMI) | 10127719 10161703 | 10127716 10159684 (BMI) | 10134160 10127718 |
| | Single Row (2-12) | 10136654 | 10136656 10157052 | 10136655 | | | | | | 10158340 | | 10127719 10161703 | 10136653 | 10134160 10127718 |
| Minitek® Pwr 3.0 HCC | Dual Row (2-24) | 10132449 | 10132450 | 10152198 | 10148440 | | 10148439 | | | | 10132446 | 10132448 10161703 | 10132445 | 10134160 10132447 |
| | Single Row (2-12) | 10142730 | | | | | | | | | 10160965 | 10132448 10161703 | 10142744 | 10134160 10132447 |

10151857 - Right Angle Through Hole Header with Metallic Board Lock (Single Row)
 10137867 - Right Angle SMT Tails and DIP Board Lock Header (Single Row)
 10162511** - Vertical SMT Header with Solder Tab (Single Row)

10159410 - Vertical SMT Header (Single Row)
 10161838 - Right Angle Through Hole Header with Metallic Board Lock (Dual Row)
 10159685** - Vertical Press Fit Header (Dual Row)



Minitek® Pwr 4.2

Supports unique TPA solution and BMI Headers

| ROWS AND POLES | | CABLE SIDE | | | | | | | | | | | |
|-----------------------|------------------|-----------------------|--------------------|------------|----------------|----------------------|----------------------|--------------|-----------------|----------------------------------|-------------|----------------|-------------|
| | | HEADERS | | | | Plug | | Receptacle | | | TPA Housing | | |
| | | Right Angle TH Header | Vertical TH Header | BMI Header | BMI R/A Header | Housing | Terminals | Vertical HSG | Right Angle HSG | Terminals | TPA Plug | TPA Receptacle | TPA Aligner |
| Minitek Power 4.2 | Dual Row (2-24) | 10127819 | 10127820 | 10138978 | 10154358* | 10127816 10144559 | 10156852 10127818 | 10127815 | 10122956 | 10134170 10127817 | 10153592 | 10153466 | 10153465 |
| | Single Row (3-5) | 10136646 | 10136647 | | | 10136645 | 10156852 10127818 | 10136644 | | 10134170 10127817 | | 10153465 | |
| Minitek Power 4.2 HCC | Dual Row (2-24) | 10131318 | 10131319 | | | 10127816 | 10156852 10136290 | 10127815 | 10122956 | 10134170 10130517 10136289 | | | |
| | Single Row (3-5) | 10137784 | 10137785 | | | 10136645 | 10156852 10136290 | 10136644 | | 10134170 10130517 10136289 | | | |

Learn more at <https://www.amphenol-cs.com/minitek-pwr>

FCI Basics Products provides a modular interconnection platform of high quality and innovative solutions with a fast and competitive service model that helps to increase the competitiveness of our customer's equipment.

Our solutions include Signal & Mid Power Wire-to-Board, Board-to-Board, Input/Output, FFC/FPC and Backplane

www.amphenol-cs.com/fci-basics | marketing@amphenol-cs.com

