

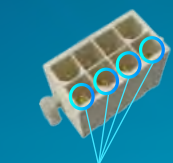
Minitek® Pwr Connector System

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

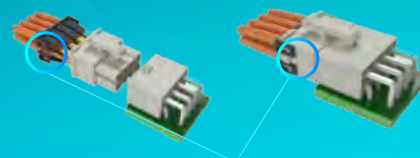
BMI provides a self-aligning feature molded into housings

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-icc.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

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