

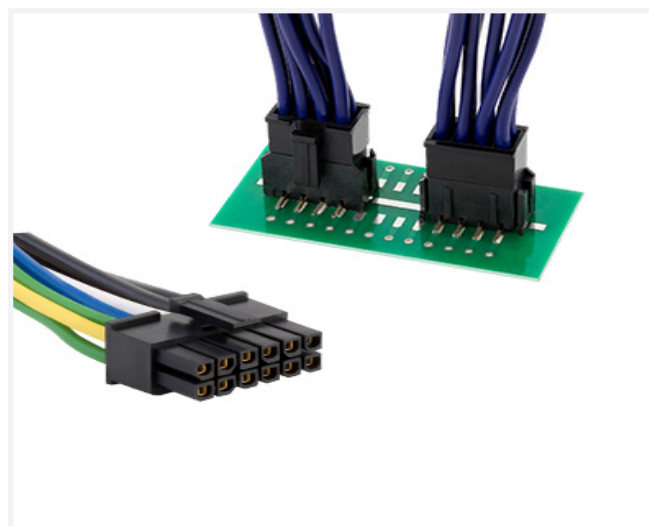
# Minitek® Pwr 3.0 High Current Connector System

## Dual Row

### ROBUST, VERSATILE AND HIGH CURRENT PERFORMANCE

Minitek® Pwr 3.0 High Current Connector (HCC) is designed for power applications with current rating up to 12A per contact and wire gauge range from 30 to 16AWG for Wire-to-Wire and Wire-to-Board applications. It is available in 2 to 24 circuits for dual row and 2 to 12 circuits for single row.

- Rated current up to 12A per contact
- Fully isolated terminals
- High retention force in housing
- Fully polarized housing



#### TARGET MARKETS



#### FEATURES

- High current alloy material used for contacts
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- High retention force in housing
- Interchangeable hand crimping and terminal extraction tools
- Glowwire compliant option
- UL94V-0 flammability rated nylon material
- RoHS compliant and lead-free

#### BENEFITS

- Rated up to 12A per contact
- Prevents terminals from potential damage during operation
- Ensures secured mating retention
- Prevents accidental mismating
- Well secured terminals in housing
- New crimping tools are not required
- Complies with International Standard IEC 60335-1 for household appliances
- High flammability rating
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Header: High current alloy with optional tin and gold plating
- Housing: High Temperature Thermoplastic, black, UL94V-0
- Crimping Terminal: High Current Alloy with optional Tin and Gold plating

### MECHANICAL PERFORMANCE

- Terminal Insertion Force: 4.1N max. (6N after durability)
- Terminal Withdrawal Force: 1.5N min. (tin plated) & 0.6N min. (Au plated)
- Durability: 50 mating cycles
- Wire Pullout Force: Referto product specifications

### ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 10mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 600Vrms
- Current Rating: 12.0A max.
- Dielectric Withstand Voltage: 1500V AC
- Temperature Rise: 30°C max.

### PACKAGING

- PCB Header: Tray or tape and reel
- Receptacle Housing: Bag
- Terminal: Reel

### APPROVALS & CERTIFICATION

- Glow Wire Ignition Temperature (GWIT) per IEC 60695-2-13
- Glow Wire Flammability Index (GWFI) per IEC 60695-2-12

### SPECIFICATION

- Amphenol Product Specification: GS-12-1291
- Amphenol Application Specification: GS-20-0399
- Amphenol Packaging Specification: GS-14-2419

### ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C  
\*Includes 30°C terminal temperature rise at rated current

### TARGET MARKETS/APPLICATIONS



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



Air Conditioner  
Microwave Oven  
Refrigerator  
Set Top Box



Blade Server  
Desktop PC and Motherboard  
HDD Application  
Rack-Mount Server  
Server-Orthogonal Configuration



Defibrillator  
Hospital Bed  
Patient Monitor  
Ultrasound Equipment



Chemical Detection System  
Radar Equipment

## PART NUMBERS

Type	Description	Part Numbers
Dual Row	Receptacle Housing	10132445
	Plug Housing	10132446
	Right Angle Through Hole Header	10132449
	Vertical Through Hole Header	10132450
	Vertical SMT with Board Lock	10148439
	Right Angle SMT with Board Lock	10148440
	Right Angle SMT Tails and Hold Down	10152198
Single Row	Right Angle Through Hole Header	10142730
	Receptacle Housing	10142744
	Plug Housing	10160965
Terminals	Receptacle Terminal	10134160/10132447
	Plug Terminal	10161703/10132448

## TOOLING INFORMATION

### APPLICATORS

Terminal Part Number	AWG Range	Semi-Auto Crimping machine	Fully-Auto Pneumatic Crimping Applicator	Fully-Auto Mechanical Crimping Applicator
10132447-00XXLF 10132448-00XXLF	16 AWG	10159974-002	10159975-002	10159976-002
	18 AWG			
	20 AWG			
10134160-X310LF	16 AWG	10159974-003	10159975-003	10159976-003
	18 AWG			
	20 AWG			
10134160-X320LF	20 AWG	10159974-004	10159975-004	10159976-004
	22 AWG			
	24 AWG			
10134160-X330LF	26 AWG	10159974-005	10159975-005	10159976-005
	28 AWG			
	30AWG			

### HAND CRIMP TOOLS

Terminal Part Number	AWG Range	Fully-Auto Mechanical Crimping Applicator
10132447-00XXLF 10132448-00XXLF	16 AWG	10159387-002
	18 AWG	
	20 AWG	
10134160-X310LF	16 AWG	10159387-003
	18 AWG	
	20 AWG	
10134160-X320LF	20 AWG	10159387-004
	22 AWG	
	24 AWG	
10134160-X330LF	26 AWG	10159387-005
	28 AWG	
	30AWG	

### TERMINAL EXTRACTION TOOL – 10129274-030LF

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