

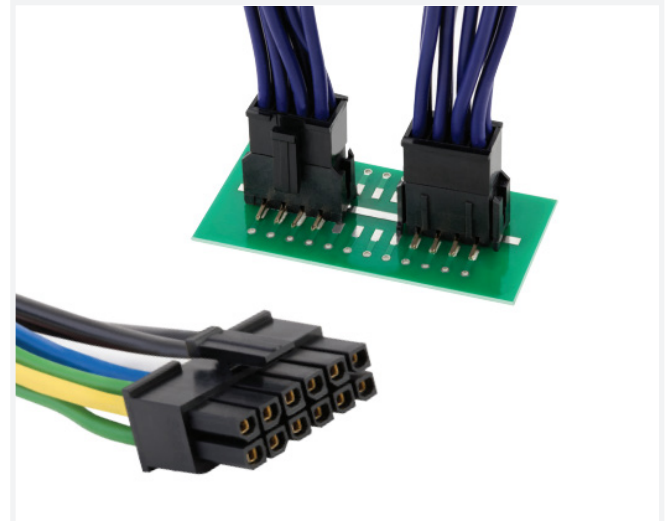
Minitek® Pwr 3.0 High Current Connector System

Available in Single Row and Double Row

ROBUST, VERSATILE AND HIGH CURRENT PERFORMANCE

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

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



TARGET MARKETS



FEATURES

- High conductivity copper alloy
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- High retention force in housing
- Glow wire 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
- Complies with International Standard IEC 60335-1 for household appliances
- High flammability rating
- Meets environmental, health, and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Header: High conductivity Copper Alloy with optional Tin and Gold plating
- Housing: High Temperature Thermoplastic, Black, UL94V-0
- Crimping Terminal: High conductivity Copper Alloy with optional Tin and Gold plating

MECHANICAL PERFORMANCE

- Insertion Force – 8N per circuit
- Withdrawal Force – 2.4N per circuit
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 10mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 600Vrms
- Current Rating: 12.0A max.
- Dielectric Withstand Voltage: 2200VAC
- 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 Range: -40°C to +105°C
*Includes 30°C terminal temperature rise at rated current

TOOLING INFORMATION

- Ratchet Hand Crimping Tool: 10129483-001LF
- Terminal Extraction Tool: 10129274-030LF

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

*Indicates not fully qualified and might need to check with Product manager

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	16AWG	10159974-002	10159975-002	10159976-002
	18AWG			
	20AWG			
10134160-X310LF	16AWG	10159974-003	10159975-003	10159976-003
	18AWG			
	20AWG			
10134160-X320LF	20AWG	10159974-004	10159975-004	10159976-004
	22AWG			
	24AWG			
10134160-X330LF	26AWG	10159974-005	10159975-005	10159976-005
	28AWG			
	30AWG			

HAND CRIMP TOOLS

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

TERMINAL EXTRACTION TOOL – 10129274-030LF