

# OCP ORv3 AC Input Connector and Cable Assemblies

## DESIGNED FOR OCP'S V3 UNIVERSAL INPUT POWER DISTRIBUTION ARCHITECTURE STANDARDS

Amphenol's OCP-compliant AC Input Connectors and Cable Assemblies are designed to meet OCP's V3 Universal Input power distribution architecture standards and provide a convenient method of routing power directly from the busway to the power shelf within the V3 rack. The slim 7-pin design provides optimal space savings for PCB and wired connections within the power shelf and offers easy configurability to meet various voltage and current ratings. Amphenol's overmolded AC Whip cables meet both IEC and NEMA cable industry standards and offer a best-in-class solution for modular rack architectures.

- 7-pin connector designed for Star, Delta and single-phase connections
- Simple configurable plug-and-play solution designed to meet various current and voltage ratings
- Low profile overmolded strain relief options for space constrained applications
- Wired Crimp, PCB Solder & Hybrid termination options
- Fully compliant with OCP ORv3 Power Shelf Universal Input Connector specifications



### TARGET MARKETS



### FEATURES

- Contacts with high conductivity Copper Alloy
- Overmolded and 2-piece hard shell strain relief options
- IP20, touch-safe and pin sequencing (plug/receptacle)
- Polarization and guidance between connectors, panels and PCB's
- 16AWG – 8AWG wiring options
- Low profile configurations

### BENEFITS

- Meets various voltage and current ratings
- Design flexibility within rack space restrictions
- Provides additional safety features and customized sequencing options for individual application requirements
- Ensures proper mating of cables and prevents misalignment during installation
- Design flexibility for various current and voltage requirements and cable routing within the box
- Ideal for 1U power supplies or power distribution systems

## TECHNICAL INFORMATION

### MATERIAL

- Power Contacts – High conductivity Copper Alloy
- Housing – Thermoplastic, UL 94V-0

### ELECTRICAL PERFORMANCE

- Power Contacts:
  - 277/480 VAC, 20A NEC cable assembly with L22-20P plug for North America applications.
  - 200-240/346-415 VAC, 32A IEC cable assembly with IEC 309 plug for IEC applications.
  - For complete voltage and current details, see product specification

### MECHANICAL PERFORMANCE

- Industry standard 2-piece strain relief options
- Custom low profile overmolded strain relief
- Mating/Un-mating Force: Mating force shall not exceed 156N and un-mating shall not be less than 9.73N
- Durability: 100 mating cycles

### ENVIRONMENTAL

- Operating Temperature Range: -40 to +105 ° C
- RoHS Information: This product is compatible according to the European Union Directive 2011/65/EU

### SPECIFICATIONS

- Product Specification: GS-12-1715
- Application Specification: GS-20-0780

### APPROVALS AND CERTIFICATIONS

- UL/CNR/CSA
- TUV

### PACKAGING

- Carton

### TARGET MARKETS/APPLICATIONS



Hyperscale Computing Architectures



Power Supplies/BBU's (Battery Backup Units)



Industrial Energy Storage

## PART NUMBERS

Description	Part Numbers
OCP Orv3 AC Input Male PCB Connector, Right Angle –Right	10156981
OCP Orv3 AC Input Male PCB Connector, Right Angle –Left	10156982
OCP Orv3 AC Input Male PCB Connector, Vertical Type –Right	10156987
OCP Orv3 AC Input Male PCB Connector, Vertical Type –Right	10156988
OCP Orv3 AC Input Male Crimp Connector – w/12AWG Wire	RPS07CN0101
OCP Orv3 AC Input Male Crimp Connector – w/10AWG Wire	RPS07CN0102
OCP Orv3 AC Input Male Crimp Connector – w/8AWG Wire	RPS07CN0103
OCP Orv3 AC Input Female Crimp Connector – w/12AWG Wire	RPS07CN0201
OCP Orv3 AC Input Female Crimp Connector – w/10AWG Wire	RPS07CN0202
OCP Orv3 AC Input Female Crimp Connector – w/8AWG Wire	RPS07CN0203
OCP Orv3 AC Input Cable Assembly – OVERMOLDED w/IEC60309 Plug	RPS0700739-XXX
OCP Orv3 AC Input Cable Assembly – OVERMOLDED w/NEMA L22-20P Plug	RPS0700749-XXX
OCP Orv3 AC Input Cable Assembly – HARD SHELL w/IEC60309 Plug	10167313-XXX
OCP Orv3 AC Input Cable Assembly – HARD SHELL w/NEMA L22-20P Plug	10167314-XXX

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