

# OCP-Compliant Connectors & Cables

Including universal AC input connectors and AC whip cables

Positronic designed the OCP ORV3 universal AC input connector based on what we have learned about power management through nearly three decades of developing power connectors for specific applications. We have extended that effort by also offering turn-key AC whip cable assemblies to ORV3 specifications. Positronic brings years of power connector experience to your overall OCP needs—in the power shelf, the server, or any other aspect of power management.



**Positronic**<sup>®</sup>  
an Amphenol company

THE SCIENCE OF **CERTAINTY**<sup>®</sup>

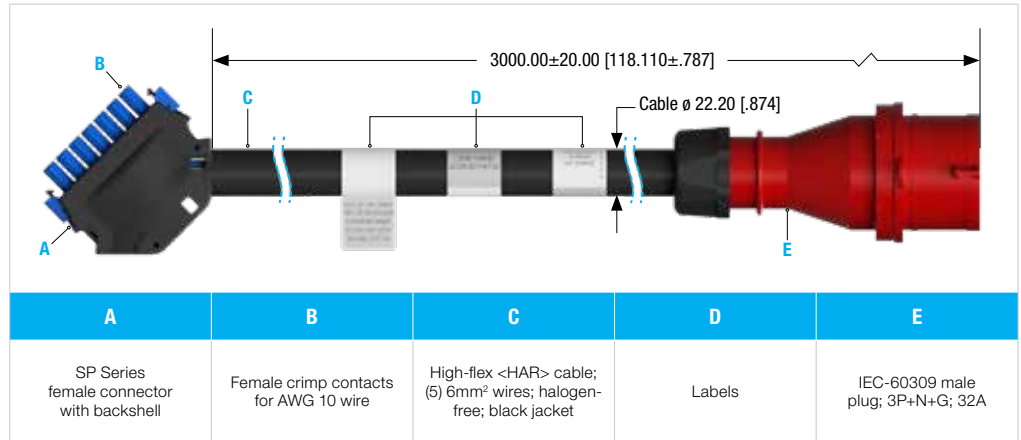
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Standard AC Whip Cables for OCP ORV3 Applications

**5-Wire 6mm<sup>2</sup> IEC Cable**

**Part Number:** ACCEU071167-03

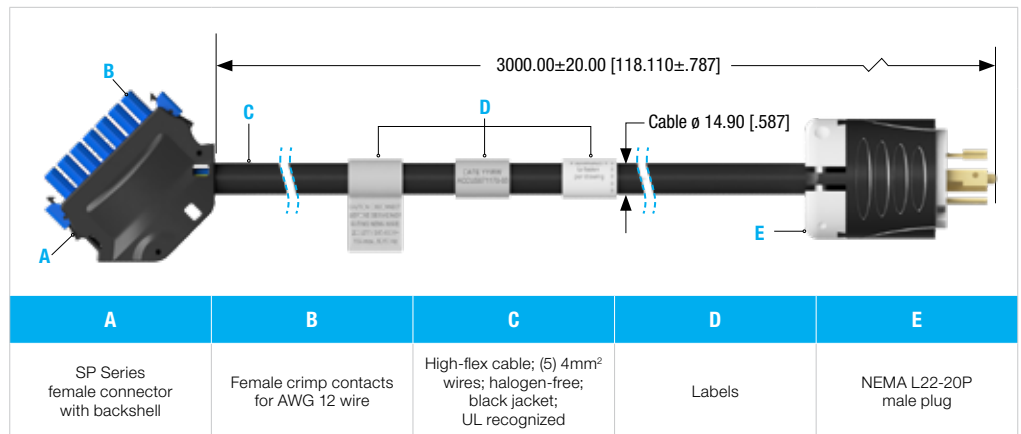
This 5-wire, 6mm<sup>2</sup> high-flex, halogen-free cable comes with the OCP ORV3 AC Input connector on one end, and an IEC-60309 locking plug on the other end. Standard length is 3 meters. Other lengths available upon request.



**5-Wire 4mm<sup>2</sup> NEMA Cable**

**Part Number:** ACCUS071170-03

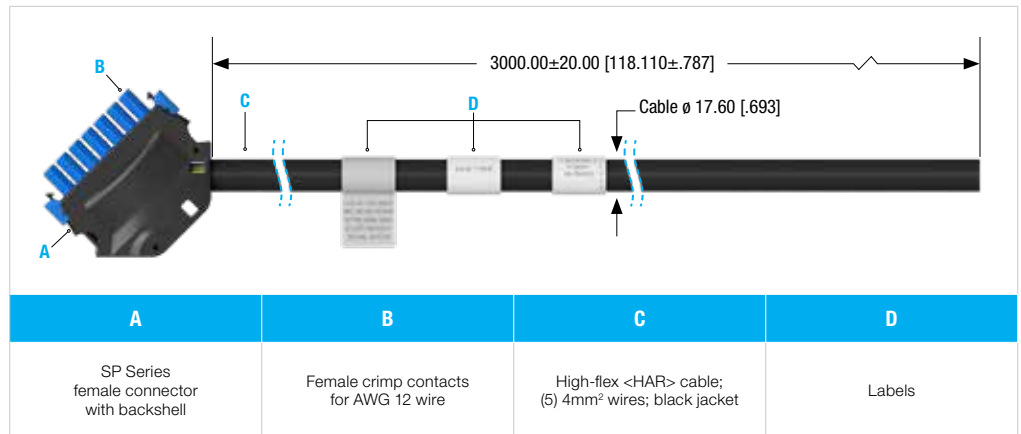
This 5-wire, 4mm<sup>2</sup> high-flex, halogen-free cable comes with the OCP ORV3 AC Input connector on one end, and a NEMA L22-20P twist-lock plug on the other end. Standard length is 3 meters. Other lengths available upon request.



**5-Wire 4mm<sup>2</sup> Leads**

**Part Number:** ACCEU071171-03

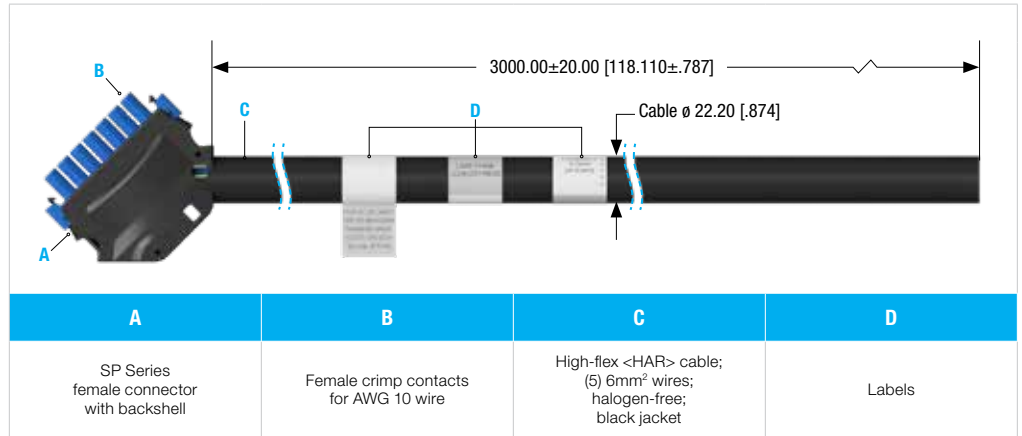
This 5-wire, 4mm<sup>2</sup> high-flex, cable comes with the OCP ORV3 AC Input connector on one end, and unterminated stripped leads on the other end. Standard length is 3 meters. Other lengths available upon request.



**5-Wire 6mm<sup>2</sup> Leads**

Part Number: ACCEU071169-03

This 5-wire, 6mm<sup>2</sup> high-flex, halogen-free cable comes with the OCP ORV3 AC Input connector on one end, and unterminated stripped leads on the other end. Standard length is 3 meters. Other lengths available upon request.

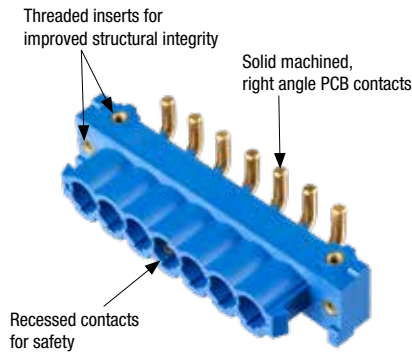


OCP ORV3 Universal AC input Connectors

**Female crimp connector with backshell**



**Male PCB connector**



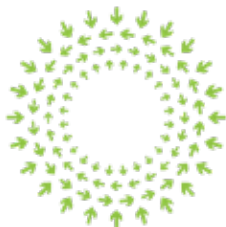
Male connector also available for use with crimp contacts

All connector components are UL approved. Power cord shall meet UL/CSA SOOW or EU CENELEC <HAR> H07RN-F with +75°C temperature rating.

Connector components used in the cable assembly shall be UL recognized or listed under the following standards.

Standard	Parts
UL1682	IEC 309 AC connector to the branch circuitry
UL498	NEMA AC connector to the branch circuitry
UL1977	Output connector that mates with connector in the power shelf
UL62 and UL817	Flexible power cord that can be used for AC wiring

Ratings	AWG	MM <sup>2</sup>
50 Amps	8 AWG	10.0
32 Amps	10 AWG	6.0
30 Amps	12 AWG	4.0
20 Amps	16 AWG	1.5



**OPEN**  
Compute Project®



*AC whip cable assembly*

In 2009 Facebook set out to design the world's most energy efficient datacenter—one that could handle unprecedented scale at the lowest possible cost. Upon completion, the datacenter was nearly 40% more energy efficient to build and 24% less costly to operate than the company's previous generation datacenters.

Due to this overwhelming success, in 2011, Facebook shared its open-source designs with the public and, in cooperation with Intel, Rackspace, and select investors, launched the Open Compute Project (OCP) foundation.

Positronic is a proud sponsor and active participant in OCP and boasts nearly a decade of selling power connector products into OCP applications. Positronic co-authored many aspects of OCP's Open Rack V3 (ORV3) Power Shelf Universal Input Connector specification and designed the power connector components found within.

Positronic designed the OCP ORV3 universal AC input connector based on what we have learned about power management through nearly three decades of developing power connectors for specific applications. We have extended that effort by also offering turn-key AC whip cable assemblies to ORV3 specifications.

We have developed several versions of the AC whip input cable assembly with the Positronic ORV3 connector content on one end and an IEC or NEMA AC receptacle connector on the other end. We have options for open wire AC whip assemblies for those customers that wish to terminate the AC receptacle connector themselves. This strategy gives additional options to our customers and optimizes the cost and lead time to bring their OCP-compliant end products to market.

As far as the connectors are concerned, Positronic has a wide variety of options available for the male connector, which is used on the power shelf. These options range from the standard right angle PCB solder versions to tailored ones, which include options for straight PCB solder, modified PC tail lengths, and the ability to wire terminate some or all of the contacts in the male connector, among others.

We want to ensure that every customer building OCP-compliant hardware has our full support to meet their program needs. Positronic is proud to provide products that meet the mission and performance metrics of the Open Compute Project Community's needs. Contact us today for more information relating to pricing, delivery, or technical inquiries.

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## Sales Offices

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