

APPLICATION NOTE

www.ittcannon.com

APD 1-way Finger Protected

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The Challenge

As alternative energies are getting more and more important, the transportation and automotive industries are focusing on hybrid and electrical vehicles. Connectors, which are in demand for these high voltage and power applications, have to guarantee maximum safety for users at any time. These demands include finger protective designs, which are robust and cost-effective as well as reliable and provide high sealing grades, typically IP69k.



The ITT Solution ...

ITT Interconnect Solutions (ICS) has been supporting commercial vehicle & automotive markets successfully with its APD Aquatica product range for many years. Based on the input of key customers, ITT ICS is now expanding this product line. APD 1-way receptacles feature a plastic cap which provides finger protection. Pin contacts are available with standard crimp and additional screw or bolt terminations. These receptacles mate with standard APD 1-way plug versions.

Product Features

- Voltage rating up to 400 VDC in mated condition (upgrade 630 VDC based on normative regulations possible)*
- Current rating up to 245 A @ 25°C
- Sealing up to IP69k
- Cable cross section from 16 mm² up to 50 mm²

*) Please note, that connectors must not be mated/unmated under load!

Benefits to Customer

- Finger protected, receptacle connectors
- Approved APD contact, crimp and coupling nut system
- Small size / compact housing
- Ease of use
- Very good price-performance ratio

For application assistance, please contact:

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