CONNECTION SYSTEMS. 12 - 48V POWER PACK 1000 PRODUCT PRESENTATION

Why POWER PACK 1000?

Market environment and value proposition

Portfolio Overview

Portfolio scope

Technical Overview

Design features

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Design features



Meeting increasing requirements for higher currents for new 12 & 48V platforms

Exceedingly high reliability expectations in safety and performance

Providing space saving solutions in regards to multiple available configurations

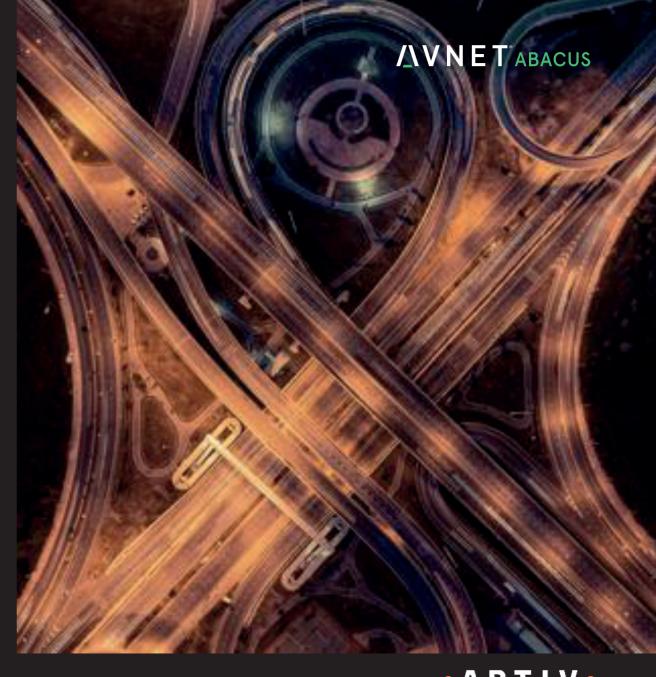


The Solution

Presenting the Power Pack 1000

Designed specifically for 12 – 48V sealed applications, the PP1000 covers multiple configurations including:

- 1 & 2 way connectors
- Wire-to-device and inline solutions
- Straight and right angle cable exits



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Robust features, meaningful benefits

Multiple configuraions

- 1-way inline
- 2-way inline
- 2-way wire-to-device
 - Straight cable exit
 - Right angle exit

High Current design

- Carrying currents up to 145A @ 85°C
- Cable range of :
 - 8-10 mm²
 - 19-25 mm²
- Silver plated terminals

Reliability

- Safe Connections including
 - TPA features
 - CPA features
- Field proven terminal system since 2011
- High sealing protection:
 IP67

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1 way inline connector





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Application: High current wiring harness inline

Key features & benefits

- Sealed connection system
- Silver-plated Power Pack1000 multi-contact terminal system
- Cable range: 8 mm² to 25 mm²
- One key/index
- Capable of additional indexes

Performance characteristics

Sealing protection IP67, IP6K9K

Temperature range (up to) -40°C to +125°C

Vibration performance (up to) V1 Chassis Profile

Max Current 145A@85C

Max Voltage 48V

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.



2-way wire-to-device connector





Application: High current device applications and sealed pass-through panel mount system

Key features & benefits

- Sealed connection system
- Sealed panel mount pre-stages prior to fastening through self tapping screws
- Silver-plated Power Pack 1000 multi-contact terminal system
- Cable range: 8 mm² to 25 mm²

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Sealing protection IP67, IP6K9K

Temperature range (up to) -40°C to +125°C

Vibration performance (up to) V1 Chassis Profile

Max Current 145A@85C

Max Voltage 48V

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2-way inline connector





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Application: High current wiring harness inline

Key features & benefits

- Sealed connection system
- Silver-plated Power Pack 1000 multi-contact terminal system
- Cable range: 8 mm² to 25 mm²
- One key/index

Performance characteristics

Sealing protection IP67, IP6K9K

Temperature range (up to) -40°C to +125°C

Vibration performance (up to) V1 Chassis Profile

Max Current 145A@85C

Max Voltage 48V

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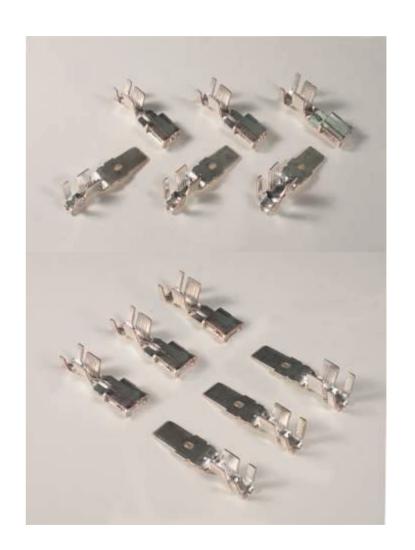
Technical Overview

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Power-Pack 1000 Terminal Overview

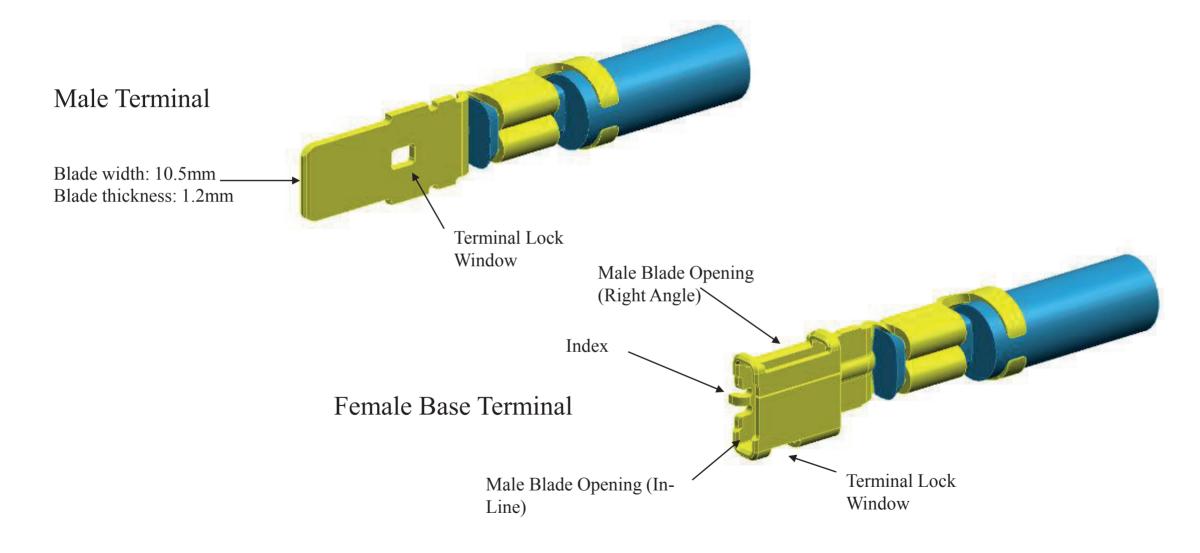
- 145 amp capability @ 85°c ambient temperature
- Silver plated
- Cable range 6 mm² 25 mm²
- Female terminal
 - 2-piece terminal system
 - Inline and right angle versions
- Male terminal
 - mates to inline or right angle female

In production since Nov 2010



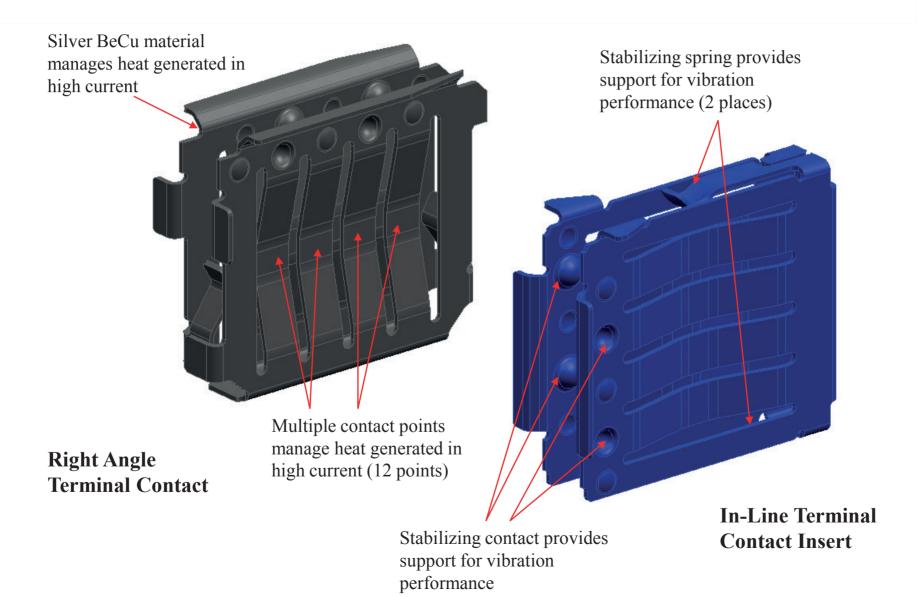
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Power-Pack 1000 Terminal Overview



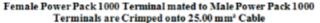
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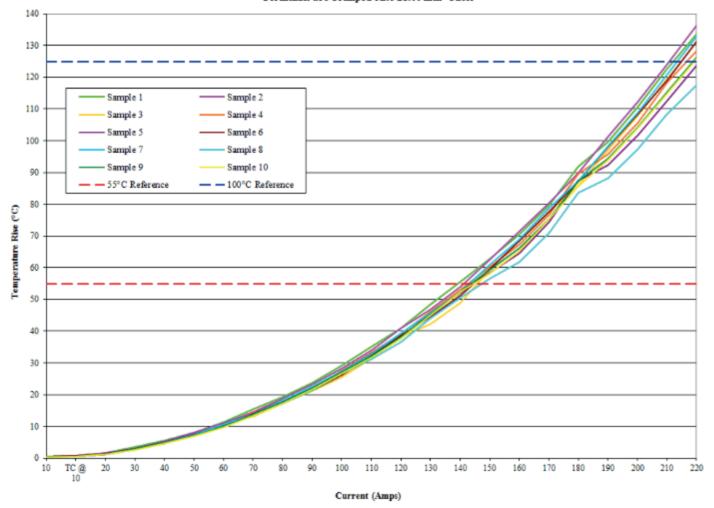
Power-Pack 1000 Female Terminal Design



Power-Pack 1000 - Max Current Test

◆ Per USCAR-2 @ 23°C

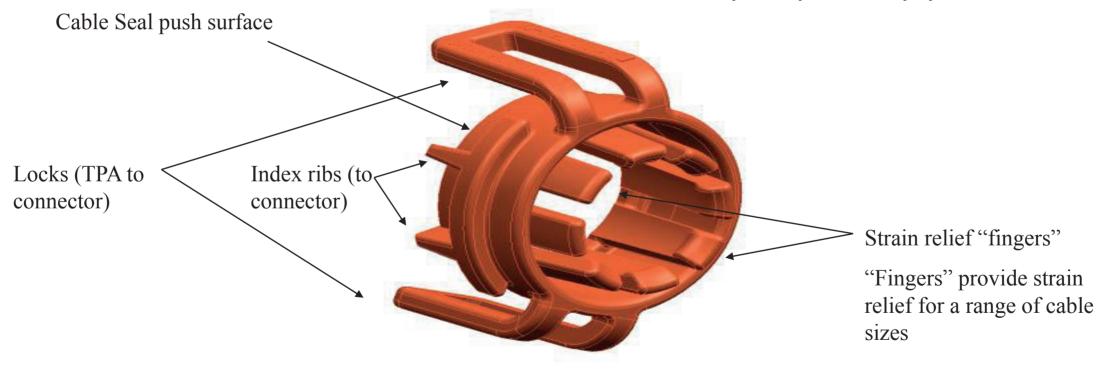




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Power-Pack 1000 design safety features

TPA is designed to be used for Male Connector, Female Connector (Right angle and In-Line), 1way, 2-way, and 3-way systems



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Power Pack 1000 part numbers



1 way inline connector

1 way inline connector	Description	Part Number	вом
	Power Pack 1000 male in-line connector	13882980	1
	PP1000 Male Silver Terminal 8-10 mm²	13675577	1
	PP1000 Male Silver Terminal 19-25 mm²	13675579	1
	Cable seal PP1000 4.54 - 5.79 dia cable (Grey) (8-10mm²)	13675510	1
	Cable seal PP1000 4.54 - 5.79 dia cable (Blue) (19-25mm²)	13675513	1
	Cable seal retainer PP1000 (8-10mm²)	13849785	1
	Cable seal retainer PP1000 (19-25mm²)	13849788	1
The state of the s	Power Pack 1000 female in-line connector	13952702	1
	PP1000 Female Silver Terminal 8-10 mm²	13675583	1
	PP1000 Female Silver Terminal 19-25 mm²	13675585	1

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Power Pack 1000 part numbers

2 Way Device Connectors

2 Way Device Connectors	Description	Part Number	вом
	Power Pack 1000 male header connector – Straight exit	13959822	1
	Power Pack 1000 male header connector – Right angle exit	13959824	1
	PP1000 Male Silver Terminal 8-10 mm²	13675577	2
	PP1000 Male Silver Terminal 19-25 mm²	13675579	2
and the second	Cable seal PP1000 4.54 - 5.79 dia cable (gray) (8-10mm²)	13675510	2
first the second	Cable seal PP1000 4.54 - 5.79 dia cable (blue) (19-25mm²)	13675513	2
	Cable seal retainer PP1000 (8-10mm²)	13849785	2
	Cable seal retainer PP1000 (19-25mm²)	13849788	2
THE STATE OF THE S	Power Pack 1000 female straight exit	13849756	1
	PP1000 Female Straight Silver Terminal 8-10 mm²	13675583	2
	PP1000 Female Straight Silver Terminal 19-25 mm²	13675585	2
	Power Pack 1000 female right angle exit	13849758	1
	PP1000 Female Right angle Silver Terminal 8-10 mm²	13675587	2
	PP1000 Female Right angle Silver Terminal 19-25 mm²	13675590	2

Power Pack 1000 part numbers

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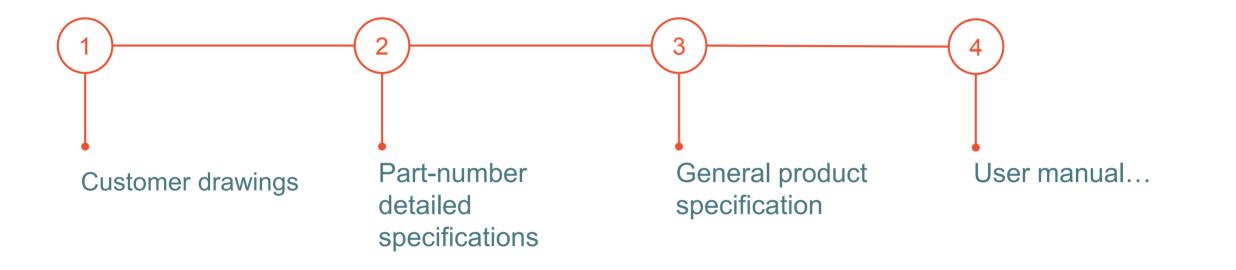
2 Way inline Connectors

2 Way inline Connectors

Description	Part Number	вом
Power Pack 1000 male header connector – Straight exit	13849747	1
PP1000 Male Silver Terminal 8-10 mm²	13675577	2
PP1000 Male Silver Terminal 19-25 mm²	13675579	2
Power Pack 1000 female straight exit	13849756	1
PP1000 Female Straight Silver Terminal 8-10 mm²	13675583	2
PP1000 Female Straight Silver Terminal 19-25 mm²	13675585	2
Cable seal PP1000 4.54 - 5.79 dia cable (gray) (8-10mm²)	13675510	2
Cable seal PP1000 4.54 - 5.79 dia cable (blue) (19-25mm²)	13675513	2

Combo Inlet - Detailed technical information





For any of the complementary and more detailed product information listed above, consult your Aptiv representative.

Thank you.