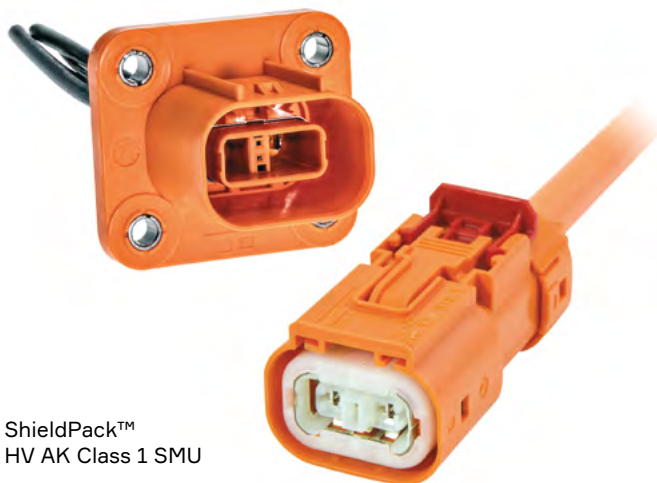


# SHIELDPACK™

## HV AK CLASS 1 SMU AK



### BENEFITS

- Standard AK interface
- High vibrations and operating temperatures
- Multiple layouts & HVIL options in the same interface

### FEATURES

- Designed according to AK interface specification and LV215 latest revision
- Finger proof/touch safe
- Multicore shielded cable for wiring simplification
- Fully interchangeable with other AK supplier sources



### AVAILABLE CONFIGURATIONS

|                        |                                        |
|------------------------|----------------------------------------|
| Connector Type         | Wire-to-device                         |
| Cable Exit Orientation | 180°                                   |
| Cable Range (mm²)      | 2.5 - 4.0 (power)<br>0.5 - 0.75 (HVIL) |
| Terminal Type (mm)     | 2.8                                    |
| # of Power Terminals   | 2                                      |
| Shielding              | Multicore                              |
| HVIL                   | Shunt on female or inline              |
| Assembly Assurance     | CPA/TPA                                |
| Number of Indexes      | 5                                      |



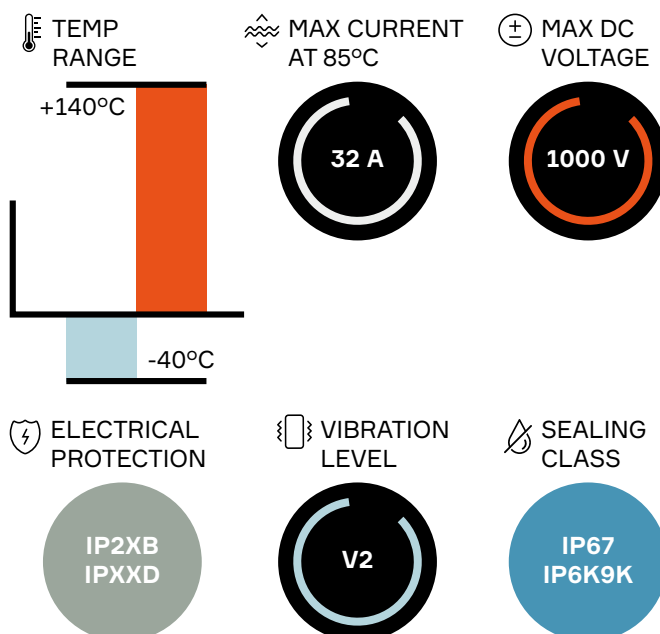
### APPLICATIONS

Battery pack, DC / DC converter, Electric AC, PTC heater, HV PDU, On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.



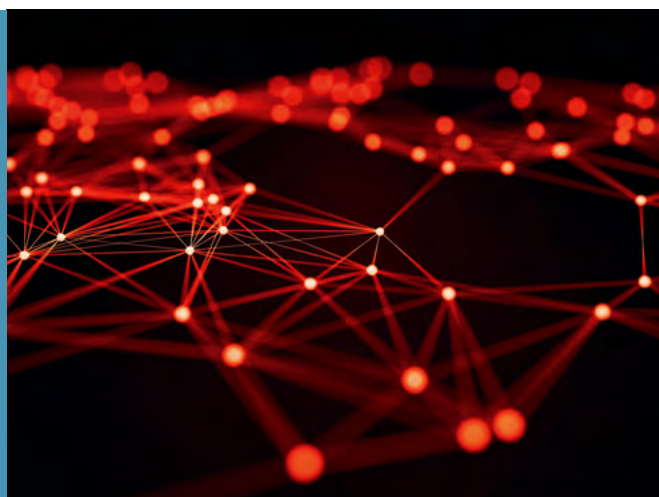
### TECHNICAL CHARACTERISTICS



### About Aptiv

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| Code | Header 2 way | Header 3 way | Mating outer housing | BOM |
|------|--------------|--------------|----------------------|-----|
| A    | 35149836     | 35149842     | 33372017             | 1   |
| B    | 35149837     | 35149843     | 33372014             |     |
| C    | 35149838     | 35149844     | 33372016             |     |
| D    | 35149839     | 35149845     | 33372015             |     |
| E    | 35149840     | 35149846     | 35061103             |     |

## ASSOCIATED PARTS

| Part number | Description | BOM                         |                      |       |
|-------------|-------------|-----------------------------|----------------------|-------|
|             |             | 2 way,<br>HVIL pass-through | 2 way,<br>HVIL shunt | 3 way |

### Header

|          |                                                           |   |   |   |
|----------|-----------------------------------------------------------|---|---|---|
| 35194900 | DCS-2 2.8 male unsealed terminal 2.5-4 mm <sup>2</sup> Ag | 2 | 2 | 3 |
| 35149868 | TPA (Terminal Position Assurance) 2 way                   | 1 | 1 | - |
| 35149869 | TPA (Terminal Position Assurance) 3 way                   | - | - | 1 |
| 15540356 | MTS 0.64 female terminal 0.5-0.75 mm <sup>2</sup> Ag      | 2 | 2 | - |

### Mating Connector

|          |                                                       |   |   |   |
|----------|-------------------------------------------------------|---|---|---|
| 13799603 | CTS 2.8 female terminal 2.5 mm <sup>2</sup> Ag        | 2 | 2 | 3 |
| 13882331 | CTS 2.8 female terminal 4 mm <sup>2</sup> Ag          |   |   |   |
| 33504709 | HVIL male DuoTwin 0.64 0.5 mm <sup>2</sup> Ag         | 2 | - | - |
| 35174268 | Spacer                                                | 1 | 1 | 1 |
| 35174446 | Shielding                                             | 2 | 2 | 2 |
| 35174249 | Cable strain relief 3 x 2.5 mm <sup>2</sup>           | - | - | 1 |
| 35174250 | Cable seal 3 x 2.5 mm <sup>2</sup>                    | - | - | 1 |
| 35174511 | Inner housing 2 way                                   | 1 | - | - |
| 35174507 | Cable strain relief 2 x 4.0 mm <sup>2</sup>           | - | 1 | - |
| 35174508 | Cable seal 2 x 4.0 mm <sup>2</sup>                    | 1 | 1 | - |
| 35174280 | Inner ferrule                                         | 1 | 1 | 1 |
| 35174278 | Outer ferrule                                         | 1 | 1 | 1 |
| 35174509 | Inner housing sub-assembly                            | - | 1 | - |
| 35174448 | Inner housing 3 way                                   | - | - | 1 |
| 35174513 | TPA (Terminal Position Assurance)                     | 1 | - | - |
| 35174510 | Cable strain relief 2 x 4.0 + 2 x 0.5 mm <sup>2</sup> | 1 | - | - |

\* Both DCK terminals and CTS terminals are compatible.

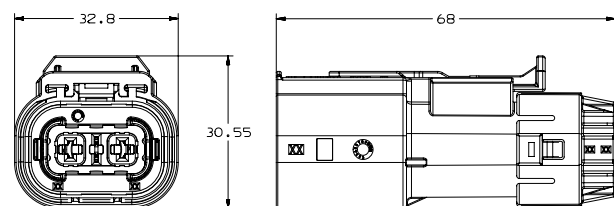
### Component Kits\*\*

| Part number | Description (pass-through version)                           | Part number | Description (shunted version)      |
|-------------|--------------------------------------------------------------|-------------|------------------------------------|
| 35122237    | 2 x 4 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup> cable code A | 33367712    | 2 x 4 mm <sup>2</sup> cable code A |
| 35122238    | 2 x 4 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup> cable code B | 35122240    | 2 x 4 mm <sup>2</sup> cable code B |
| 33367711    | 2 x 4 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup> cable code C | 35122241    | 2 x 4 mm <sup>2</sup> cable code C |
| 35122239    | 2 x 4 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup> cable code D | 33367710    | 2 x 4 mm <sup>2</sup> cable code D |
| 35086591    | 2 x 4 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup> cable code E | 35086590    | 2 x 4 mm <sup>2</sup> cable code E |

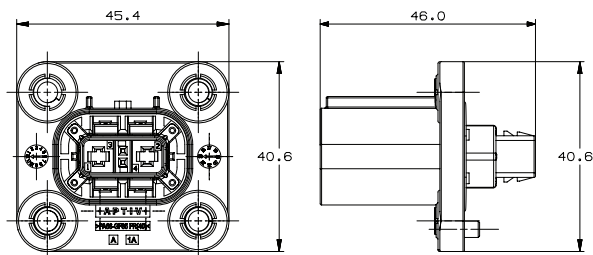
\*\* Available configurations with associated BOM (Bill Of Materials).



## DIMENSION MEASUREMENT SAMPLE



33367712



35149836

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.

CS-SP69-HP-EN1220

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