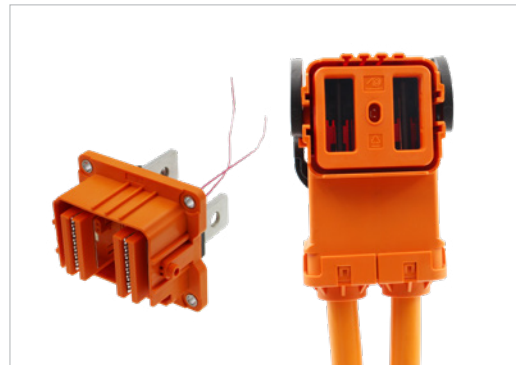




# EXCEL | MATE

## HVSL Series



When high-performance and increased safety are required in HEV, Amphenol PCD's **EXCEL | MATE** connectors fulfill the challenge.

HVSL Series is designed for various HEV applications, including power and signal interconnect solutions. Different versions are available, from 1 position to 6 positions and a rated current from 20A to 450A.

| Product                    | HVSL 1400 | HVSL 1200 | HVSLP 1200 | HVSL 1000 | HVSLP 1000 | HVSL F18 | HVSL F300 | HVSL 800 | HVSLP 800 | HVPC 800 | HVPC 18  | HVSL 800 | HVSL 8003 | HVSL 600        | HVSL 600 | HVSL 630 | HVSL 633 | HVSL 635B | HVSL 280 | HVSL 282 | HVSL 362 | HVSL 364  | HVSL 365 | HVSL 366 |
|----------------------------|-----------|-----------|------------|-----------|------------|----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|----------|
| Position                   | 2         | 2         | 2          | 1, 2, 3   | 2          | 2        | 2         | 2, 3     | 2         | 2        | 2        | 2        | 2         | 2, 3            | 1        | 2        | 3        | 5         | 3        | 2        | 2        | 3, 4      | 5        | 6        |
| Rated Voltage              | 1000V     | 1000V     | 1000V      | 1000V     | 1000V      | 1000V    | 1000V     | 1000V    | 1000V     | 1000V    | 1000V    | 1000V    | 1000V     | 1000V           | 1000V    | 1000V    | 1000V    | 690V      | 1000V    | 1000V    | 1000V    | 1000V     | 1000V    | 1000V    |
| Rated Current              | 450A      | 350A      | 400A       | 250A      | 250A       | 270A     | 430A      | 180A     | 200A      | 180A     | 250A     | 180A     | 180A      | 120A            | 120A     | 40A      | 40A      | 40A       | 32A      | 32A      | 95A      | 80A       | 40A      | 40A      |
| HVIL                       | √         | √         | √          | √         | √          | √        | √         | √        | √         | √        | √        | √        | √         | √               | √        | √        | √        | √         | √        | √        | √        | √         | √        | √        |
| Shielding                  | √         | √         | √          | √         | √          | √        | √         | √        | √         | √        | √        | √        | √         | √               | √        | √        | √        | √         | √        | √        | √        | √         | √        | √        |
| Shell                      | Plastic   | Plastic   | Plastic    | Plastic   | Plastic    | Plastic  | Plastic   | Plastic  | Plastic   | Metal    | Metal    | Metal    | Metal     | Metal           | Plastic  | Plastic  | Plastic  | Plastic   | Plastic  | Plastic  | Plastic  | Plastic   | Plastic  | Plastic  |
| IP67, IP6K9K               | √         | √         | √          | √         | √          | √        | √         | √        | √         | √        | √        | √        | √         | √               | √        | √        | √        | √         | √        | √        | √        | √         | √        | √        |
| Touch-Proof IP2XB          | √         | √         | √          | √         | √          | √        | √         | √        | √         | √        | √        | √        | √         | √               | √        | √        | √        | √         | √        | √        | √        | √         | √        | √        |
| Cable size mm <sup>2</sup> | 70 to 120 | 70 to 95  | 70 to 95   | 25 to 70  | 50 to 70   | 25 to 70 | 95 to 120 | 25 to 50 | 25 to 50  | 35 to 50 | 35 to 70 | 25 to 50 | 25 to 50  | 16 to 25 6/8AWG | 25       | 4 to 6   | 2.5 to 6 | 2.5 to 6  | 2.5 to 4 | 2.5 to 4 | 6 to 16  | 2.5 to 16 | 2.5 to 6 | 2.5 to 6 |
| Cable type shielded wire   | I         | I         | I          | I         | I          | I        | I         | I        | I         | I        | I        | I        | I         | I               | I        | M        | I/M      | M         | M        | I/M      | I        | I         | I        | I        |

Cable type shielded wire

**I:** Individually / **M:** Multicore

Excel|Mate PT  
(HVPC 800)

HVPC 800

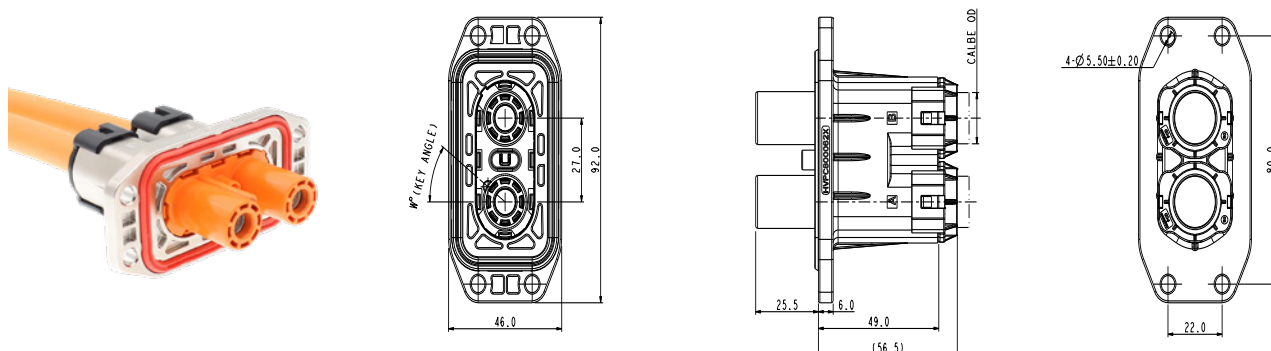


KEY FEATURES

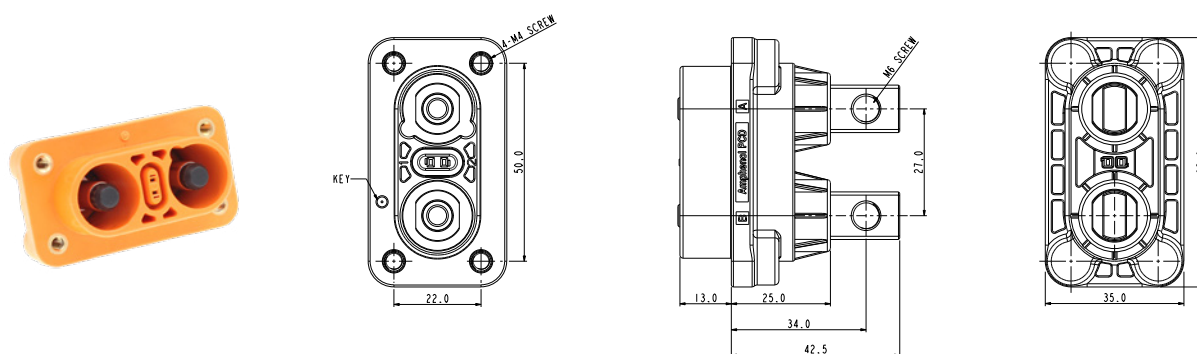
- Easy to install, reliable connection
- Sealing, IP67, IP6K9K (mated)
- Multiple coding positions
- 360° shielded from wire to device
- Economical

| MECHANICAL                     |                                        |
|--------------------------------|----------------------------------------|
| Durability                     | ≥ 50 mating cycles                     |
| Wire range                     | 35 to 50 mm <sup>2</sup> shielded wire |
| Insertion and extraction force | < 100N                                 |
| Connection type                | Crimp                                  |
| HVIL                           | Integrated                             |
| ELECTRICAL                     |                                        |
| Rated voltage                  | 1000V DC                               |
| Rated current                  | Max 180A @ ambient temperature 70°C    |
| Insulator resistance           | > 100MΩ                                |
| Dielectric withstand voltage   | 3000V AC                               |
| Shielding                      | 360° from wire to device               |
| ENVIRONMENTAL                  |                                        |
| Sealing                        | IP67, IP6K9K (mated)                   |
| Temperature range              | -40°C to 125°C                         |
| Salt spray                     | 96 hours                               |
| STANDARDS                      |                                        |
| USCAR-2                        |                                        |
| USCAR-37                       |                                        |
| LV-215                         |                                        |
| RoHS                           |                                        |
| MATERIAL                       |                                        |
| Housing                        | Metal                                  |

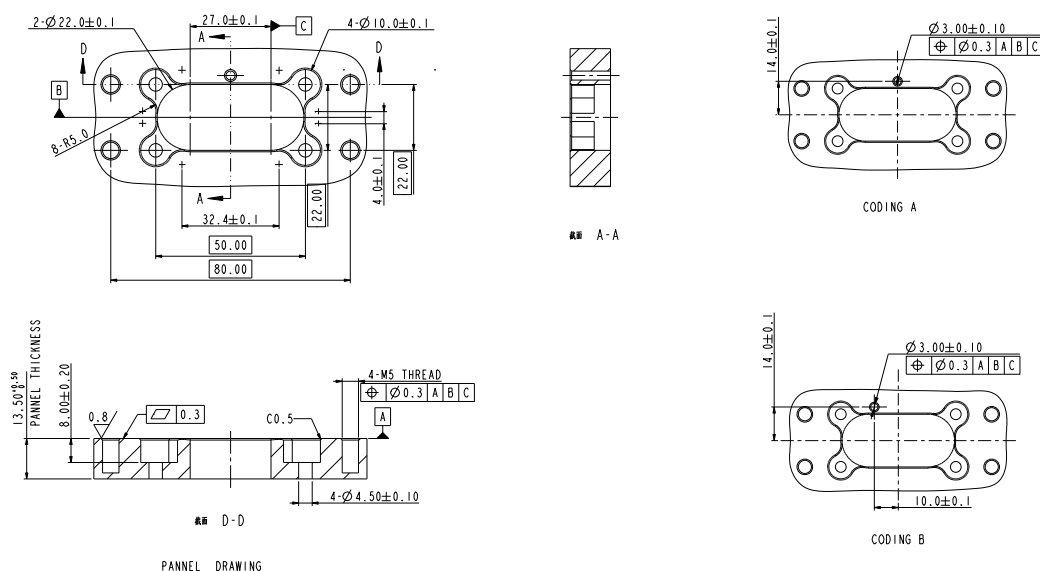
## HVPC 800 PLUG



## HVPC 800 RECEPTACLE



## PANEL MOUNTING DIMENSION



## HOW TO ORDER (HVPC 800)

### HOW TO ORDER: PLUG

|                                     |          |    |   |   |   |    |
|-------------------------------------|----------|----|---|---|---|----|
|                                     | HVPC 800 | 06 | 2 | A | 1 | 35 |
| <b>Product type:</b>                |          |    |   |   |   |    |
| 06: Plug                            |          |    |   |   |   |    |
| <b>Position:</b>                    |          |    |   |   |   |    |
| 2: 2 positions                      |          |    |   |   |   |    |
| <b>Coding:</b>                      |          |    |   |   |   |    |
| A: Coding A                         |          |    |   |   |   |    |
| B: Coding B                         |          |    |   |   |   |    |
| <b>HVIL:</b>                        |          |    |   |   |   |    |
| 0: Without HVIL                     |          |    |   |   |   |    |
| 1: With HVIL                        |          |    |   |   |   |    |
| <b>Wire type:</b>                   |          |    |   |   |   |    |
| 35: 35mm <sup>2</sup> shielded wire |          |    |   |   |   |    |
| 50: 50mm <sup>2</sup> shielded wire |          |    |   |   |   |    |

### HOW TO ORDER: RECEPTACLE

|                      |          |    |   |   |   |    |
|----------------------|----------|----|---|---|---|----|
|                      | HVPC 800 | 02 | 2 | A | 1 | H6 |
| <b>Product type:</b> |          |    |   |   |   |    |
| 02: Receptacle       |          |    |   |   |   |    |
| <b>Position:</b>     |          |    |   |   |   |    |
| 2: 2 positions       |          |    |   |   |   |    |
| <b>Coding:</b>       |          |    |   |   |   |    |
| A: Coding A          |          |    |   |   |   |    |
| B: Coding B          |          |    |   |   |   |    |
| <b>HVIL:</b>         |          |    |   |   |   |    |
| 0: Without HVIL      |          |    |   |   |   |    |
| 1: With HVIL         |          |    |   |   |   |    |
| <b>Wire type:</b>    |          |    |   |   |   |    |
| H6: M6 OT terminal   |          |    |   |   |   |    |

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### Notes:

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