



BSM

Battery Swap Modules

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BSM series connectors are Battery Swapping Modules with high durability. Their deviation self-correction and collision prevention ensure a fast and precise mating.

- RADSOK® Technology.
- Excellent physical shock and vibration.
- Distinct function for deviation-auto correction, can adjust deviation of X, Y, Z. X and Y direction $\pm 2\text{mm}$ and Z direction $\pm 5\text{mm}$.

For custom orders, please contact us. Amphenol PCD Shenzhen is able to provide customized solutions to meet our customers' needs.

BSM5A



MECHANICAL	
Durability	≥ 5000 mating cycles
Insertion and extraction force	130N max
ELECTRICAL	
Wire range	1.0 to 1.5 mm ²
Rated current	5A max
Rated voltage	24V
Insulator resistance	$\geq 200\text{M}\Omega$
Dielectric withstanding voltage	1000V AC
ENVIRONMENTAL	
Ambient temperature	-40°C to 70°C
Operating temperature	-40°C to 125°C

KEY FEATURES

Blind mating with floating on X, Y, Z axes

Deviation self-correction

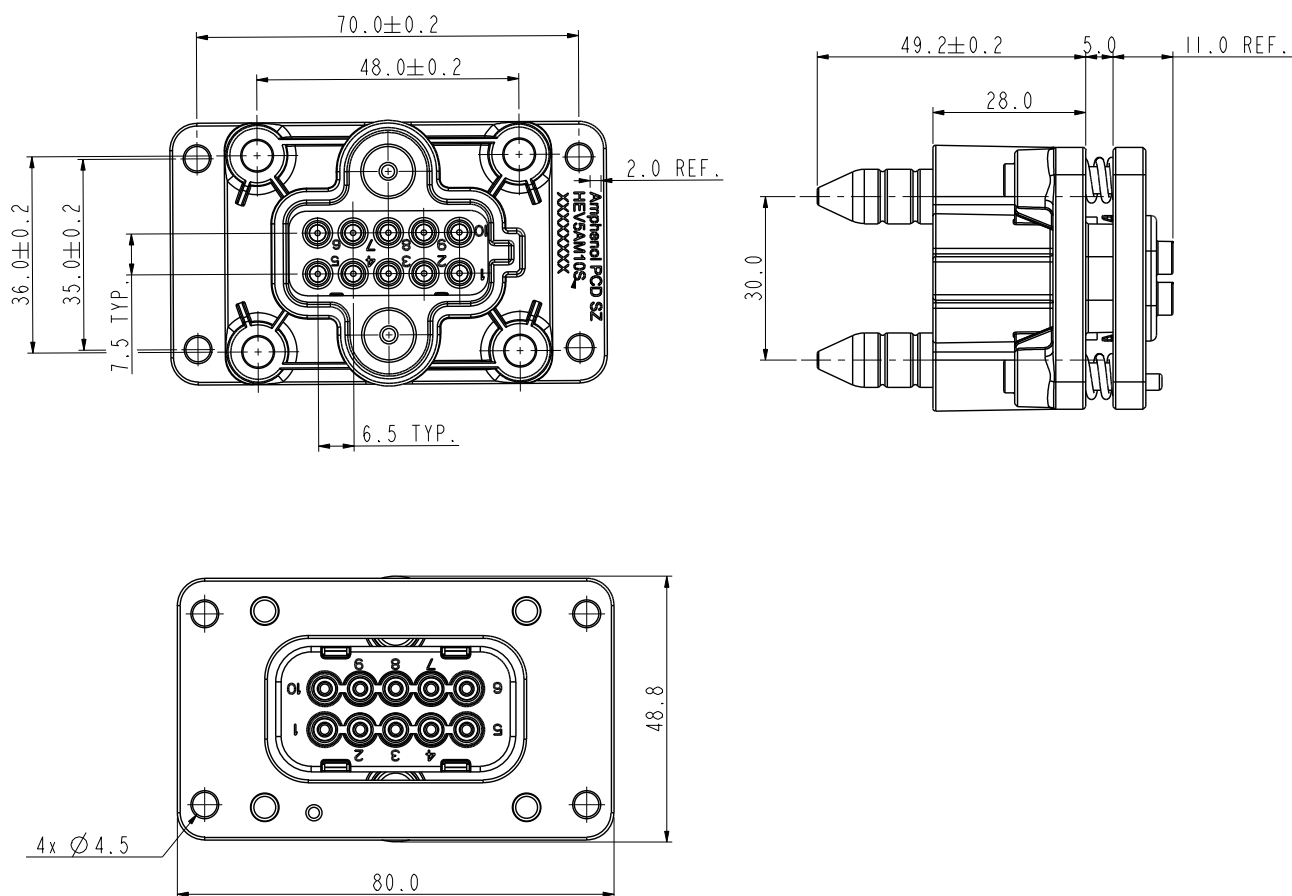
Collision prevention

High durability

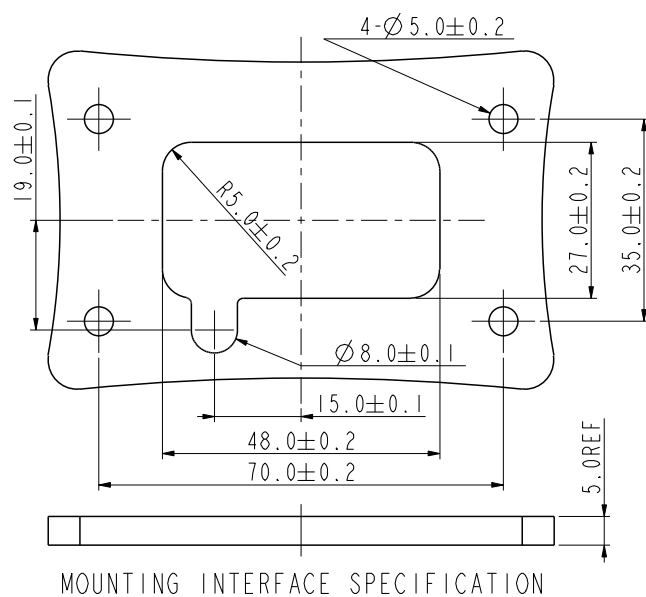
Excellent physical shock and vibration performance

PLUG

P/N: HEV5AM10S



PANEL MOUNTING DIMENSIONS





MECHANICAL	
Durability	≥ 5000 mating cycles
Insertion and extraction force	130N max
ELECTRICAL	
Wire range	Signal contact: 0.5 to 0.75 mm ² Power contact: 25mm ²
Rated current	Signal contact: 2A Power contact: 100A max
Rated voltage	Signal contact: 12 to 24 V Power contact: 600V DC
Insulator resistance	$\geq 200\text{M}\Omega$
Dielectric withstanding voltage	3000V AC Between power contact
ENVIRONMENTAL	
Ambient temperature	-40°C to 70°C
Operating temperature	-40°C to 125°C

KEY FEATURES

Blind mating with floating on X, Y, Z axes

Deviation self-correction

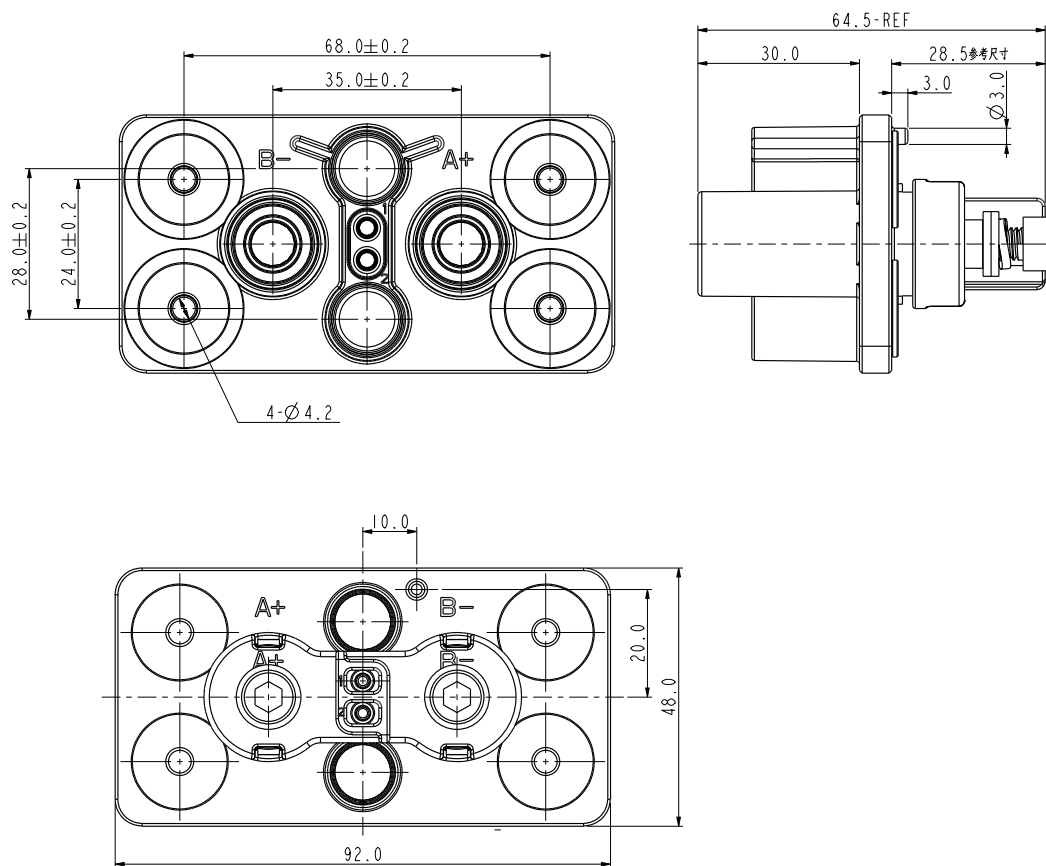
Collision prevention

High durability

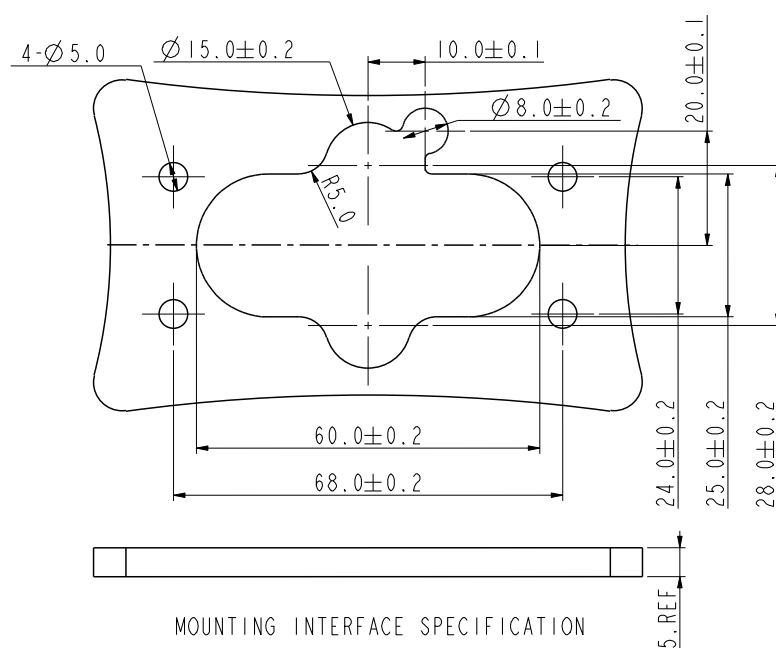
Excellent physical shock and vibration performance

BSM100A

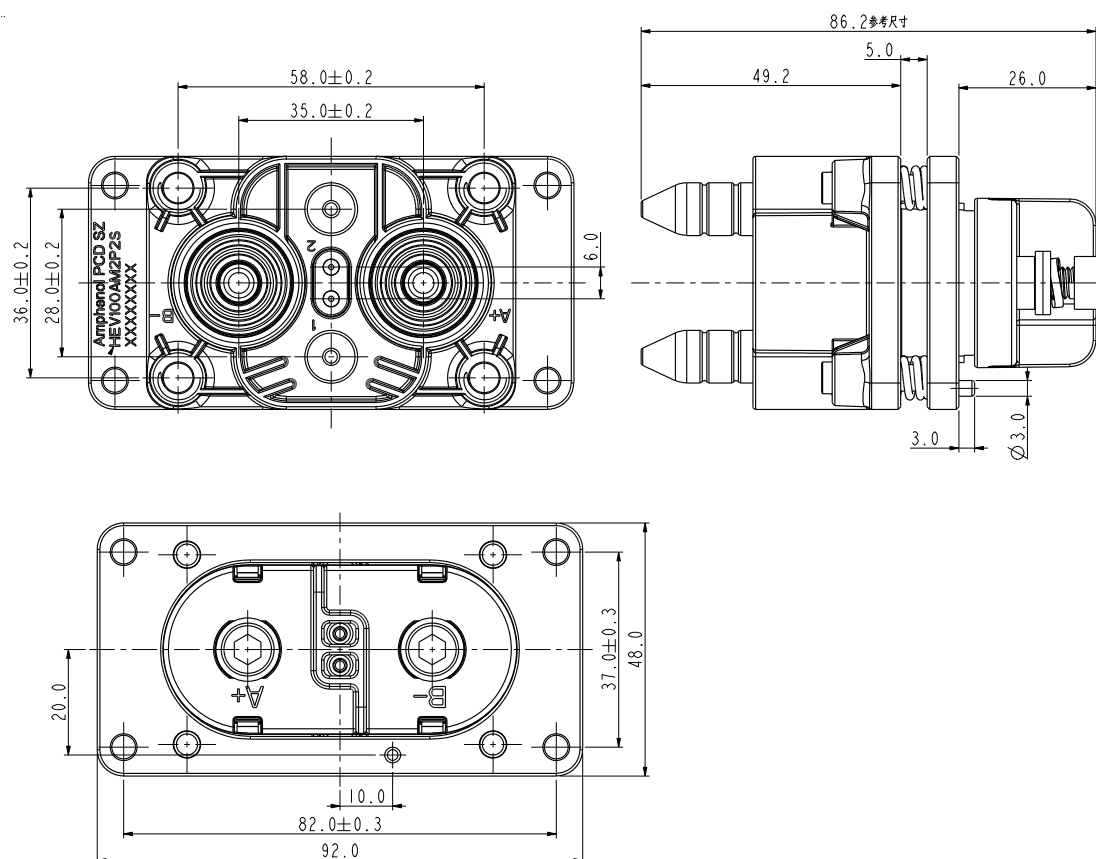
RECEPTACLE
P/N: HEV100AF2P2S



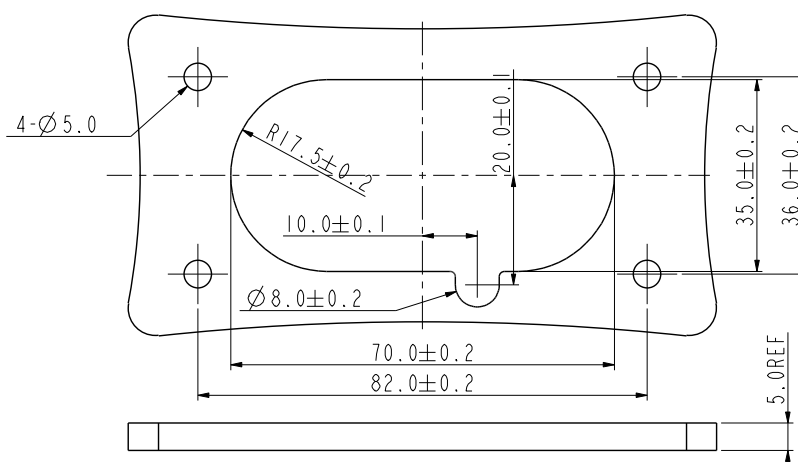
PANEL MOUNTING DIMENSIONS



PLUG
P/N: HEV100AM2P2S



PANEL MOUNTING DIMENSIONS



MOUNTING INTERFACE SPECIFICATION

BSM70A



MECHANICAL	
Durability	≥ 5000 mating cycles
Insertion and extraction force	200N max
ELECTRICAL	
Wire range	Signal contact: 2.5mm ² Power contact: 16mm ²
Rated current	Signal contact: 13A Power contact: 70A max
Rated voltage	Signal contact: 12 to 24 V Power contact: 600V DC
Insulator resistance	$\geq 200\text{M}\Omega$
Dielectric withstanding voltage	3000V AC Between power contact
ENVIRONMENTAL	
Ambient temperature	-40°C to 70°C
Operating temperature	-40°C to 125°C

KEY FEATURES

Blind mating with floating on X, Y, Z axes

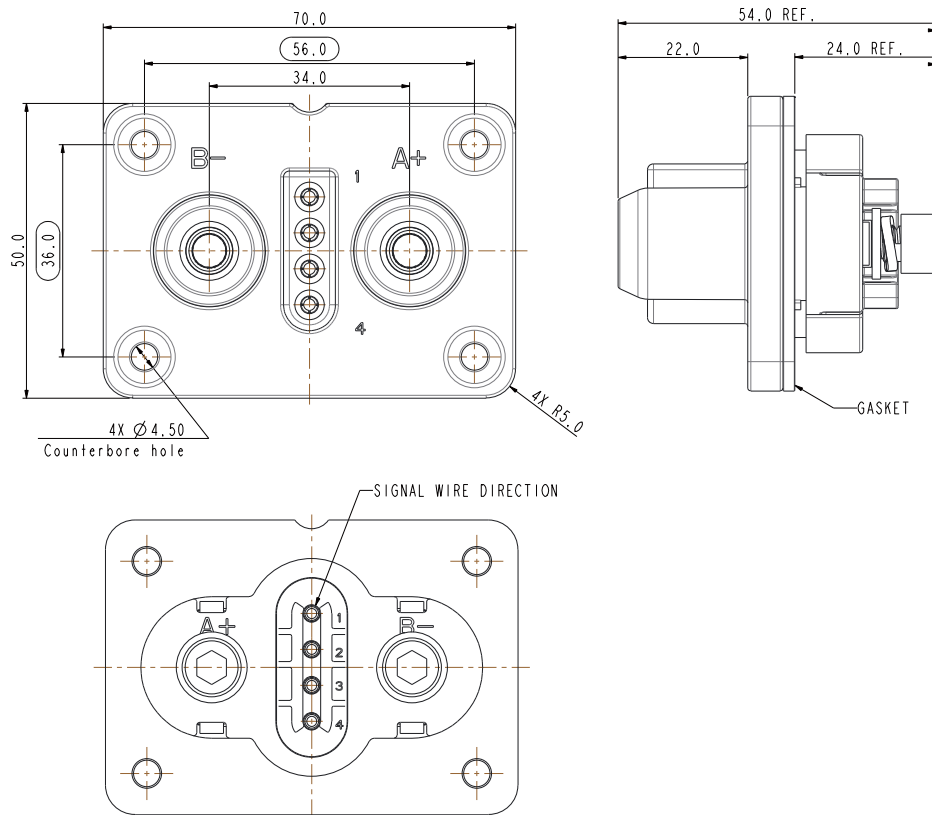
Deviation self-correction

Collision prevention

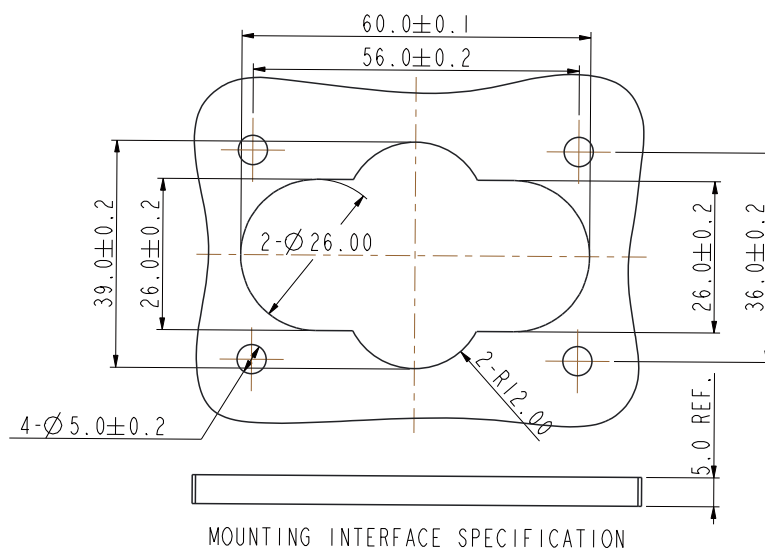
High durability

Excellent physical shock and vibration performance

RECEPTACLE
P/N: HEV070AF2P4SF

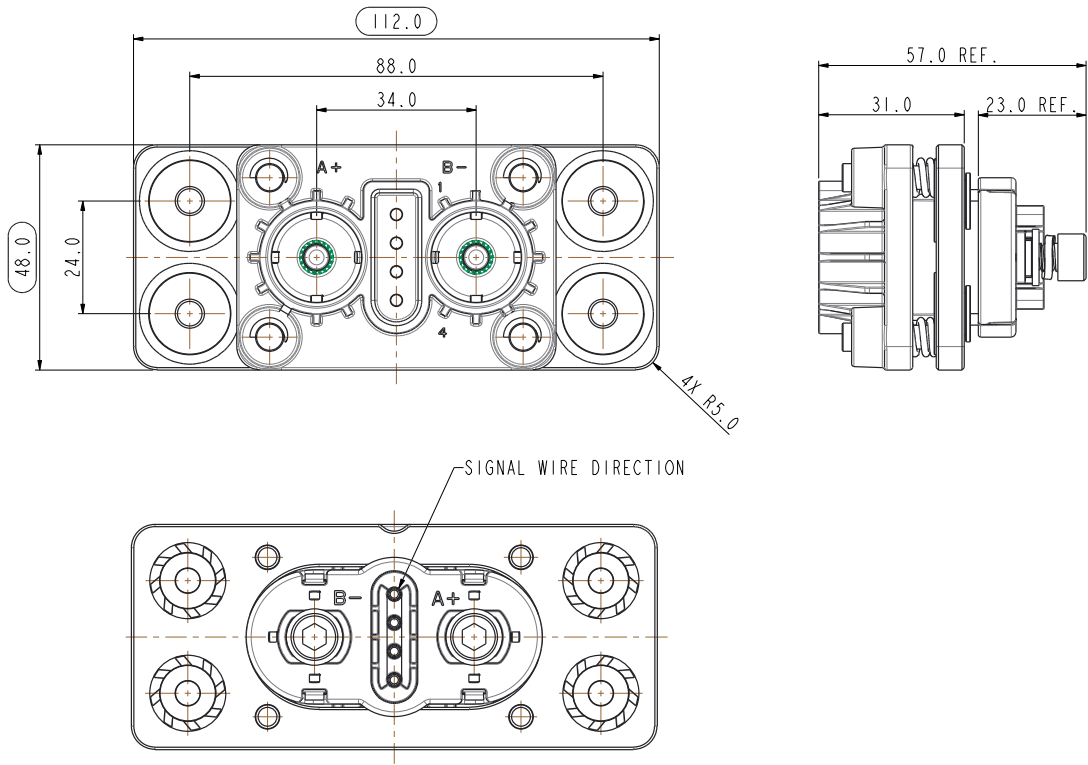


PANEL MOUNTING DIMENSIONS

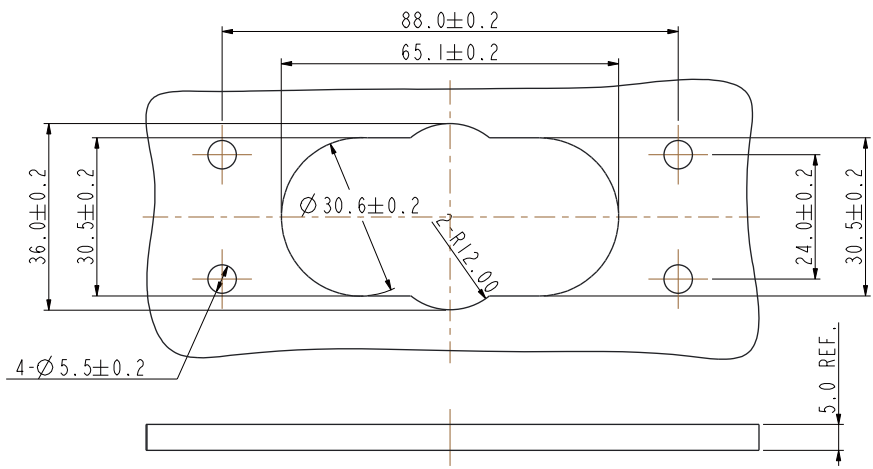


BSM70A

PLUG
P/N: HEV070AM2P4SF



PANEL MOUNTING DIMENSIONS



MOUNTING INTERFACE SPECIFICATION



MECHANICAL	
Durability	≥ 5000 mating cycles
Insertion and extraction force	200N max
ELECTRICAL	
Wire range	Signal contact: 1.0 to 1.5 mm ² Power contact: 20 to 25 mm ²
Rated current	Signal contact: 5A max Power contact: 80A max
Rated voltage	Signal contact: 30V Power contact: 600V DC
Insulator resistance	$\geq 200\text{M}\Omega$
Dielectric withstanding voltage	3000V AC
ENVIRONMENTAL	
Ambient temperature	-40°C to 70°C
Operating temperature	-40°C to 125°C
Sealing	IP67 (Cable entry of the plug)

KEY FEATURES

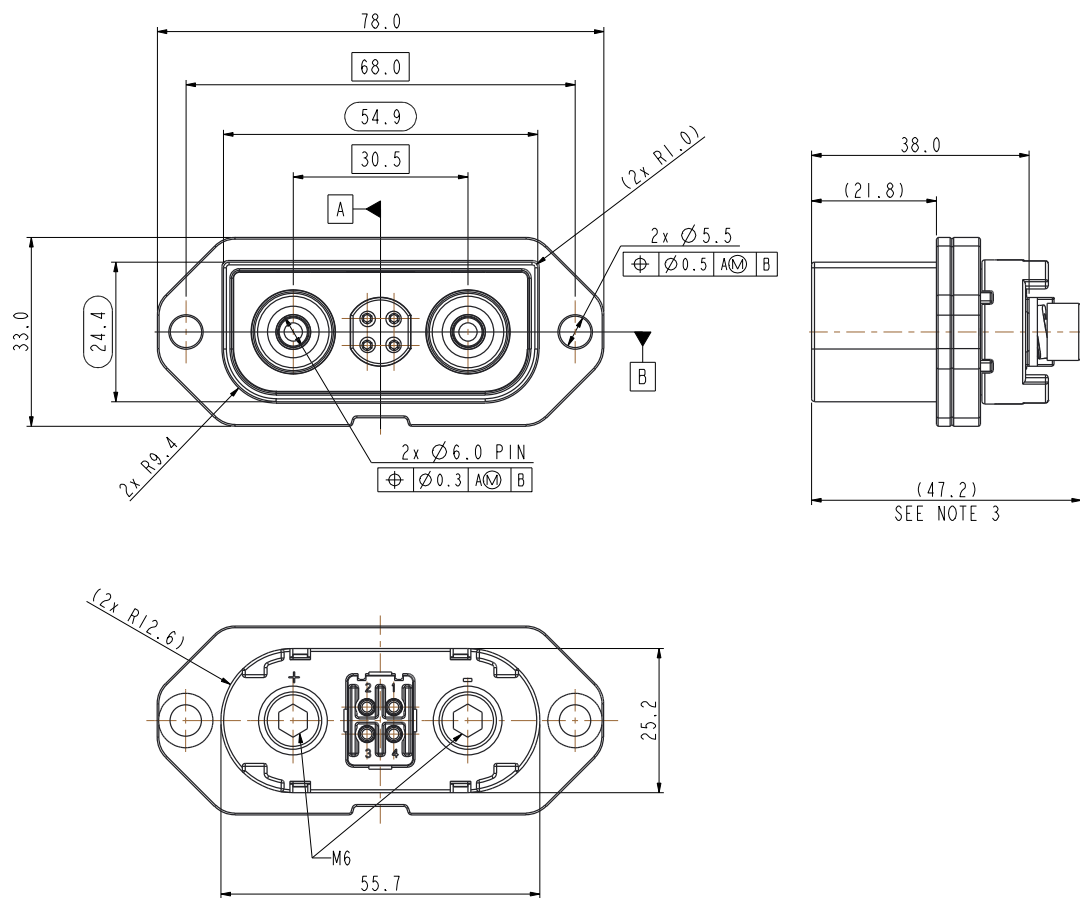
Quick mating

High durability

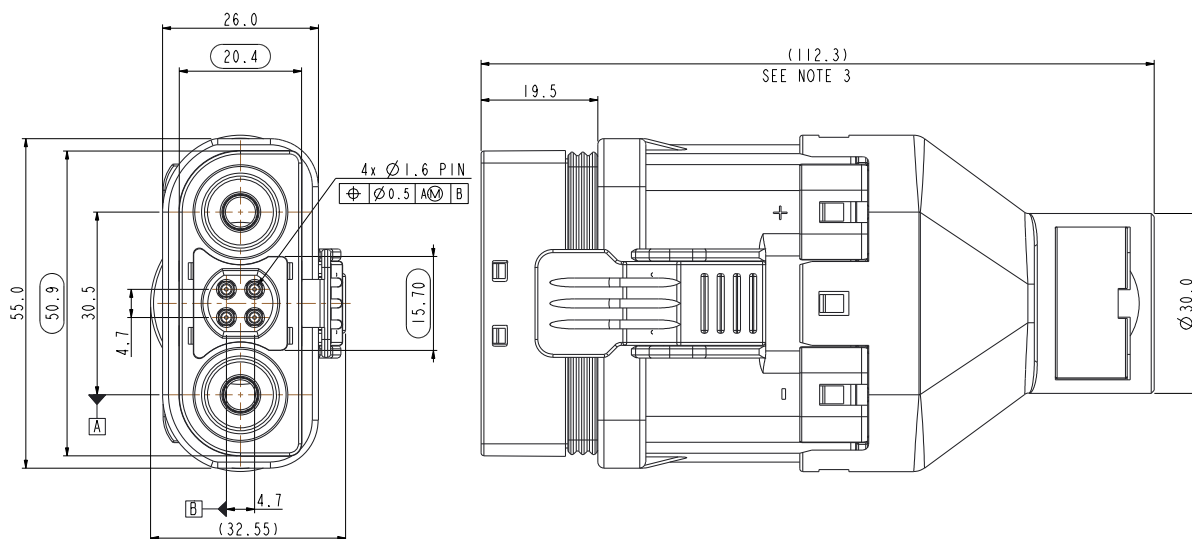
Excellent physical shock and vibration performance

BSM80A

RECEPTACLE
P/N: HEV080AF2P4SF



PLUG
P/N: HEV080AM2P4SF



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