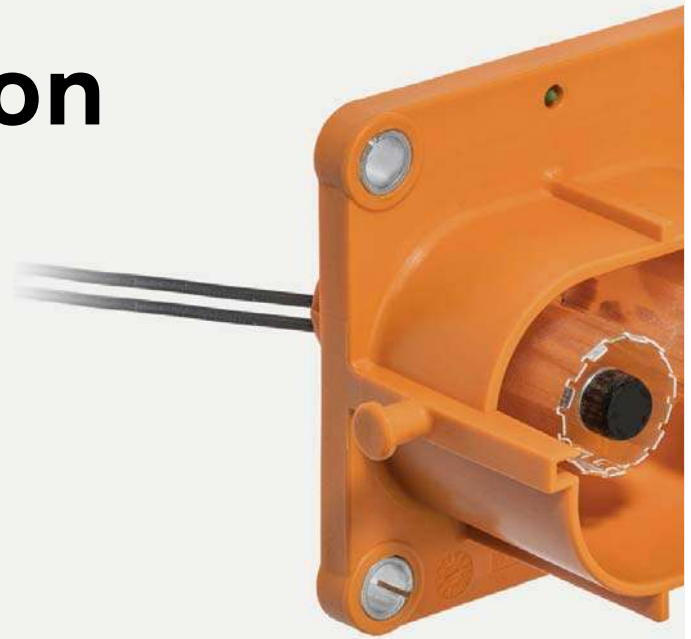


# Power Conversion

## SELECTOR GUIDE

### APPLICATIONS:

- HV battery
- E-motor
- AC / DC inverter
- Power electric box
- Distribution Unit (HV PDU)
- DC / DC converter










Application	AC / DC inverter, DC / DC converter, HV battery, Power electric box, HV PDU					
Description	SHIELDPACK™ HV AK Class 4 SI	SHIELDPACK™ HV RCS800 SB	SHIELDPACK™ HV RCS890 SB	SHIELDPACK™ HV RCS890 SB RV 2 Way	SHIELDPACK™ HV RCS890 SB RV 3 Way	SHIELDPACK™ HV RCS890 SI
Amperage at 85°C	245 A	210 A	200 A	200 A	200 A	210 A
Voltage	1000 V	1000 V	1000 V	1000 V	1000 V	600 V
Orientation	90° 180°	180°	90°	90°	90°	90°
# of ways (power)	2	2	2	2	3	2
HVIL	✓	✓	✓	✓	✓	✓
Shielding	Individual	Bundle	Bundle	Bundle	Bundle	Individual
Vibration Class	V2	V1	V1	V1	V1	V1*
Temperature Class	T4	T3	T3	T3	T3	T3
Sections power	25 - 50 mm <sup>2</sup>	35 - 50 mm <sup>2</sup>	35 - 50 mm <sup>2</sup>	16 - 70 mm <sup>2</sup>	16 - 70 mm <sup>2</sup>	35 - 70 mm <sup>2</sup>
Sections HVIL	0.5 mm <sup>2</sup>	0.5 - 0.75 mm <sup>2</sup>	0.5 - 0.75 mm <sup>2</sup>	0.5 - 0.75 mm <sup>2</sup>	0.5 - 0.75 mm <sup>2</sup>	0.35 - 1.0 mm <sup>2</sup>
See Page	<b>34-35</b>	<b>36-37</b>	<b>38-39</b>	<b>40-41</b>	<b>42-43</b>	<b>44-45</b>

\* For classification V2 please consult an Aptiv representative.

\*\* For solution with HVIL please contact your local Aptiv representative.



													
AC / DC inverter, DC / DC converter, HV battery, Power electric box, HV PDU						AC / DC inverter, HV battery, HV PDU, Power electric box, E-motor							
POWERPACK HV RCS800 UI DM	SHIELDPACK™ HV RCS800 SI DM	SHIELDPACK™ HV RCS890 SI DM	SHIELDPACK™ HV PP2000 SI	SHIELDPACK™ HV RCS1190 SI	SHIELDPACK™ HV AK Plastic Pass-Through SI	SHIELDPACK™ HV Metal Pass-Through SI							
210 A	210 A	200 A	250 A	375 A	N/A	N/A							
850 V	850 V	850 V	1000 V	1000 V	600 V (AC) 1000 V (DC)	600 V (AC) 1000 V (DC)							
180°	180°	90°	90°	90°	180°	180°							
1	2	2	2	2	1, 2 & 3	1							
x	x**	✓	✓	✓	x	x							
Unshielded	Individual	Individual	Individual	Individual	Individual	Individual							
V1*	V1*	V1*	V3	V2	V3	V4							
T3	T3	T3	T3	T3	T4	T3							
35 - 50 mm <sup>2</sup>	35 - 50 mm <sup>2</sup>	35 - 50 mm <sup>2</sup>	35 - 50 mm <sup>2</sup>	50 - 95 mm <sup>2</sup>	16 - 50 mm <sup>2</sup>	25 - 50 mm <sup>2</sup>							
-	-	0.35 - 1.0 mm <sup>2</sup>	0.5 mm <sup>2</sup>	0.5 - 0.75 mm <sup>2</sup>	-	-							
<b>46-47</b>	<b>48-49</b>	<b>50-51</b>	<b>52-53</b>	<b>54-55</b>	<b>56-57</b>	<b>58-59</b>							

# SHIELDPACK™

## HV AK CLASS 4 SI AK



### BENEFITS

- Standard AK interface
- High robustness against vibrations
- Higher operating temperatures

### FEATURES

- Header compatible with both straight & right angle female connector
- Connector and header design according to AK interface specification and LV215 latest revision
- Individual shielded cables
- Fully compatible with other AK supplier sources

### APPLICATIONS

AC / DC inverter

HV battery

HV PDU

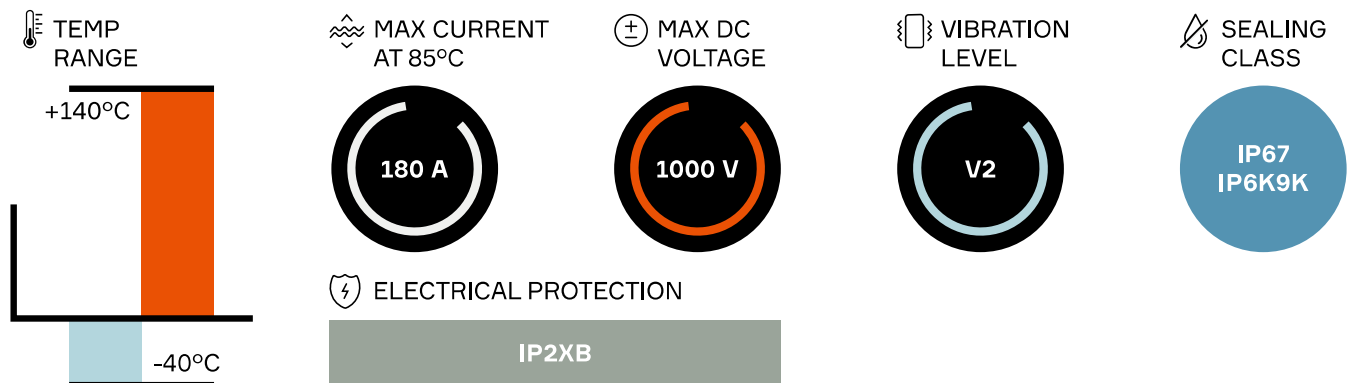
E-motor

Power electric box

### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°, 180°
Cable Range (mm <sup>2</sup> )	25 - 50 (power) 0.5 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	CPA/TPA
Number of Indexes	4

### PERFORMANCE



Code	Header UL HB	Header UL VO	2 way mating outer housing	BOM
A	35166503	33351454	33355781	1
B	35166504	33351455	33355782	
C	35166505	-	33355783	
D	35166506	-	33355784	

## ASSOCIATED PARTS

Description	Cable size			BOM*
	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	
Outer insulation	35172730			2
Active female terminal	35172744			2
Crimp female terminal	35172741	35172742		2
Inner ferrule	35172724	35172725	35172726	2
Outer ferrule - Ni plated	35172727	35172728	35172729	2
Cable strain relief	35172735	35172736	35172737	2
Cable seal	35172732	35172733	35172734	2
HVIL 1.2 male terminal MCON* 0.75 mm <sup>2</sup>	5-1418760-3			2

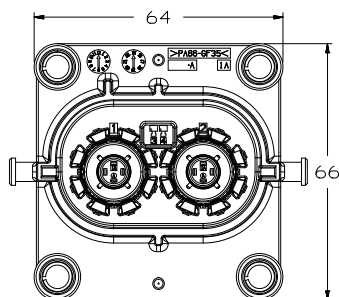
\* Reference refers to external supplier.

## Component Kits\*\*

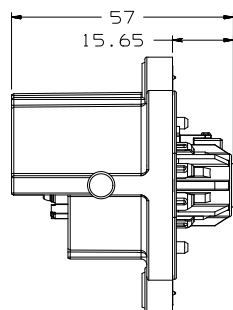
Part number	Code	Part number	Code	Part number	Code
<b>Assembly for 25 mm<sup>2</sup> cable</b>		<b>Assembly for 35 mm<sup>2</sup> cable</b>		<b>Assembly for 50 mm<sup>2</sup> cable</b>	
35039798	A	35039802	A	35039808	A
35039799	B	35039804	B	35039809	B
35039800	C	35039805	C	35039810	C
35039801	D	35039806	D	35039811	D

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

## DIMENSION MEASUREMENT SAMPLE



35166503



33355781

# SHIELDPACK™ HV RCS800 SB



## BENEFITS

- Easy to assemble with integrated ErgoMate™ Axial Mating Assist System on harness connector
- Compact package with unique integrated electric interlock
- Header is sealed in both mated and unmated positions

## FEATURES

- Bundle shielding with external braid
- Panel mount to device with face seal to module
- Two-stage disconnect for safe unmating

## APPLICATIONS

AC / DC inverter

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DC / DC converter

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HV battery

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Power electric box

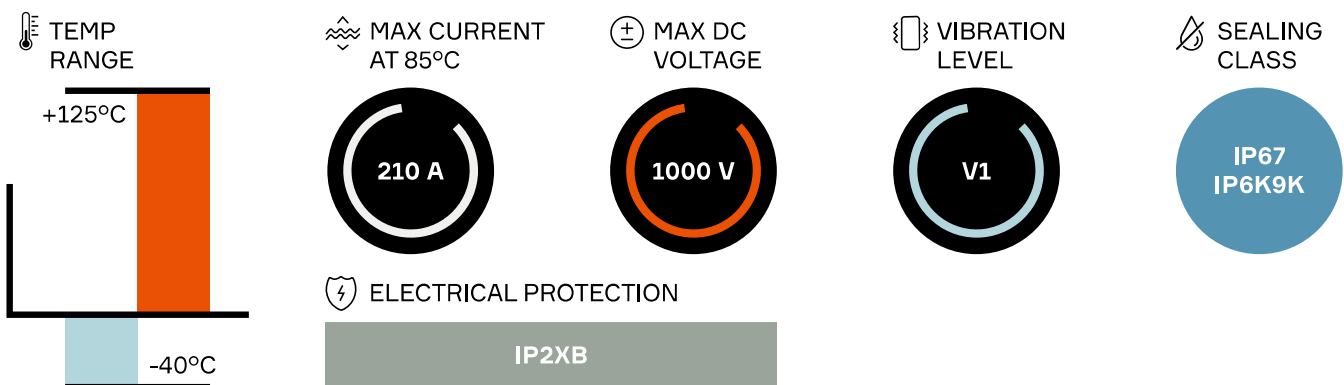
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HV PDU

## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	35 - 50 (power) 0.5 - 0.75 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Bundle
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	2

## PERFORMANCE

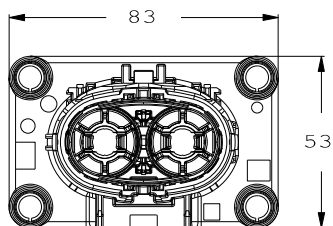


Index	Header connector	Mating connector	BOM
1	33511764	13974469	1
2	33511762	33511761	

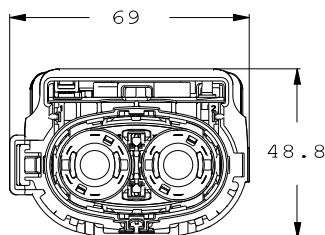
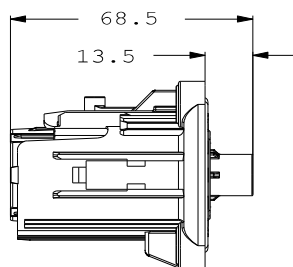
## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
33512193	RCS 800/890 male pin terminal silver version standard length	2
33511746	RCS 800/890 male pin terminal silver version V1 length	
33511747	RCS 800/890 male pin terminal silver version V2 length	
10779703	DCS2 1.5 male terminal gold-plated 0.5 - 1.0 mm <sup>2</sup>	2
15441379	DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm <sup>2</sup>	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1.0 mm <sup>2</sup>	
<b>Mating Connector</b>		
13893887	RCS 800 female terminal silver version 35 - 50 mm <sup>2</sup>	2
13893889	RCS 800 female retainer (plug)	2
13893888	RCS 800 female 35 - 40 mm <sup>2</sup> (plug)	2
13923559	RCS 800 female 50 mm <sup>2</sup> (plug)	

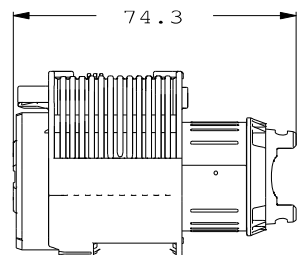
## DIMENSION MEASUREMENT SAMPLE



33511764



13974469



# SHIELDPACK™ HV RCS890 SB

FOR NEW DESIGN, CONSIDER THE NEW HV 890 RV SERIES



## BENEFITS

- Easy to assemble with integrated ErgoMate™ Axial Mating Assist System on harness connector
- Compact package with unique integrated electric interlock
- Header is sealed in both mated and unmated position

## FEATURES

- Bundle shielding with external braid
- Panel mount to device with face seal to module
- Two-stage disconnect for safe unmating

## APPLICATIONS

AC / DC inverter

DC / DC converter

HV battery

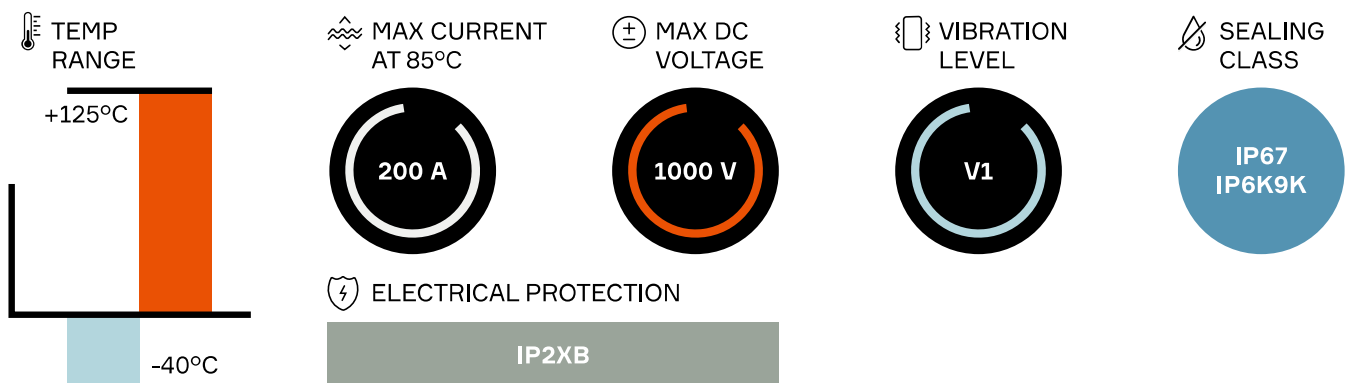
Power electric box

HV PDU

## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	35 - 50 (power) 0.5 - 0.75 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Bundle
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	1

## PERFORMANCE

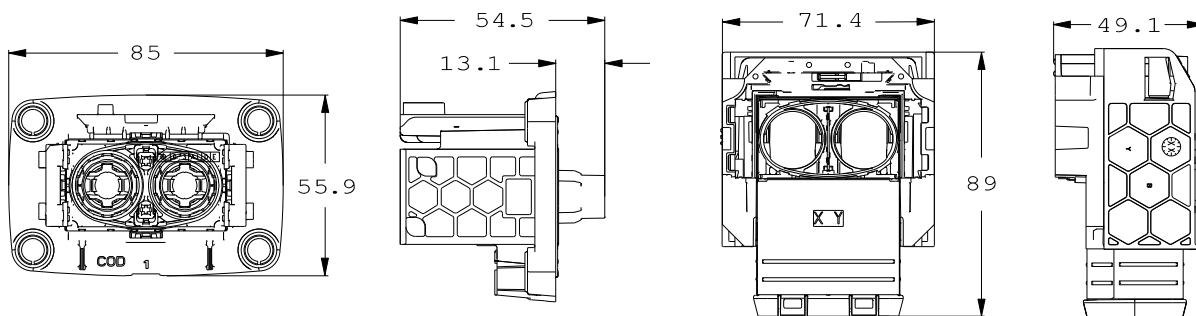


Header connector	Mating connector	BOM
33503821	33511750	1

## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
33512193	RCS 800/890 male pin terminal silver version standard length	
33511746	RCS 800/890 male pin terminal silver version V1 length	2
33511747	RCS 800/890 male pin terminal silver version V2 length	
10811962	DCS2 1.5 female terminal gold-plated 0.5 - 1.0 mm <sup>2</sup>	2
15441379	DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm <sup>2</sup>	
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1.0 mm <sup>2</sup>	2
<b>Mating Connector</b>		
33308229	RCS 890 female terminal silver version 16 - 25 mm <sup>2</sup>	
33502217	RCS 890 female terminal silver version 35 - 50 mm <sup>2</sup>	2
35225104	RCS 890 female terminal silver version 70 mm <sup>2</sup>	
33521619	RCS 890 single wire seal & retainer 16-25 mm <sup>2</sup>	
33511753	RCS 890 single wire seal & retainer 35 - 40 mm <sup>2</sup>	2
33511754	RCS 890 single wire seal & retainer 50 mm <sup>2</sup>	
35199856	RCS 890 single wire seal & retainer 70 mm <sup>2</sup>	
33504038	RCS 890 2-way half clamp	2

## DIMENSION MEASUREMENT SAMPLE



33503821

33511750



# SHIELDPACK™

## HV RCS890 SB RV 2 WAY

USE FOR NEW DESIGN



### BENEFITS

- Ultra compact design for applications with space constraints
- Panel mount to device with face seal to module
- Header is sealed in both mated and unmated position

### FEATURES

- Two-stage disconnect for safe unmating
- Easier mating with Slider Mating Assist System on harness connector
- Bundle shielding with external braid
- HVIL shunted in harness connector

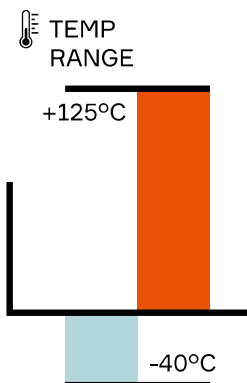
### APPLICATIONS

AC / DC inverter  
DC / DC converter  
HV battery  
Power electric box  
HV PDU

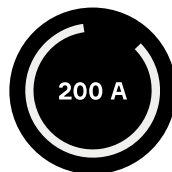
### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	16 - 70 (power) 0.35 - 1.0 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Bundle
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	2

### PERFORMANCE



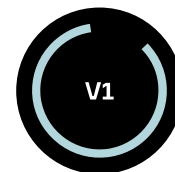
MAX CURRENT AT 85°C



MAX DC VOLTAGE



VIBRATION LEVEL



SEALING CLASS



ELECTRICAL PROTECTION

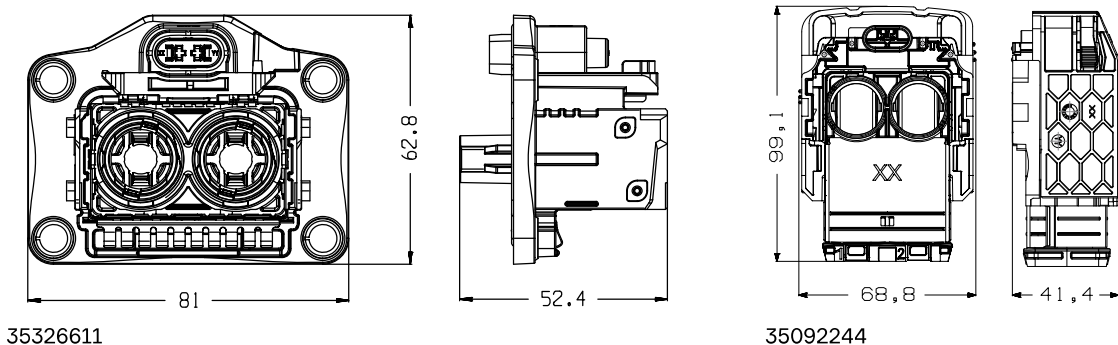
IP2XB

Index	Header connector	Mating connector	BOM
1	35326611	35092244	1
2	35326613	35092239	

## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
10811962	DCS2 1.5 female terminal gold-plated 0.5 - 1.0 mm <sup>2</sup>	2
15441379	DCS/DSQ 1.5 red single wire seal 0.35 - 0.5 mm <sup>2</sup>	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1.0 mm <sup>2</sup>	
35304635	RCS 800 male bus bar terminal silver version polarized pin	2
<b>Mating Connector</b>		
33308229	RCS 890 female terminal silver version 16 - 25 mm <sup>2</sup>	2
33502217	RCS 890 female terminal silver version 35 - 50 mm <sup>2</sup>	
35225104	RCS 890 female terminal silver version 70 mm <sup>2</sup>	
33521619	RCS 890 single wire seal & retainer (plug) 16 - 25 mm <sup>2</sup>	2
33511753	RCS 890 2-way female single wire seal & retainer (plug) 35 - 40 mm <sup>2</sup>	
33511754	RCS 890 2-way female single wire seal & retainer (plug) 50 mm <sup>2</sup>	
35199856	RCS 890 2-way female single wire seal & retainer (plug) 70 mm <sup>2</sup>	
35091447	RCS 890 2-way half clamp	2

## DIMENSION MEASUREMENT SAMPLE



# SHIELDPACK™

## HV RCS890 SB RV 3 WAY



### BENEFITS

- Ultra compact design for applications with space constraints
- Panel mount to device with face seal to module
- Header is sealed in both mated and unmated position

### FEATURES

- Two-stage disconnect for safe unmating
- Easier mating with Slider Mating Assist System on harness connector
- Bundle shielding with external braid
- HVIL shunted in harness connector

### APPLICATIONS

AC / DC inverter

DC / DC converter

HV battery

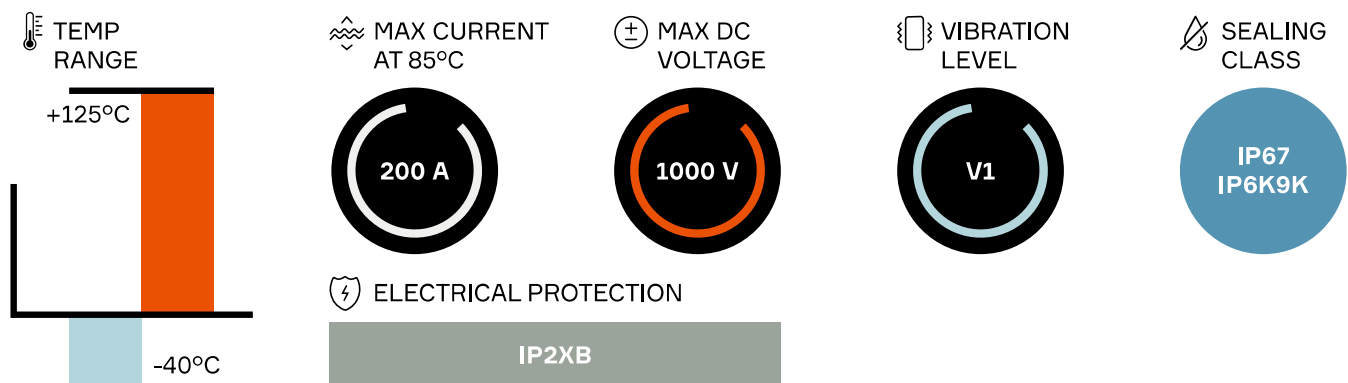
Power electric box

HV PDU

### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	16 - 70 (power) 0.5 - 0.75 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	3
Shielding	Bundle
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	2

### PERFORMANCE

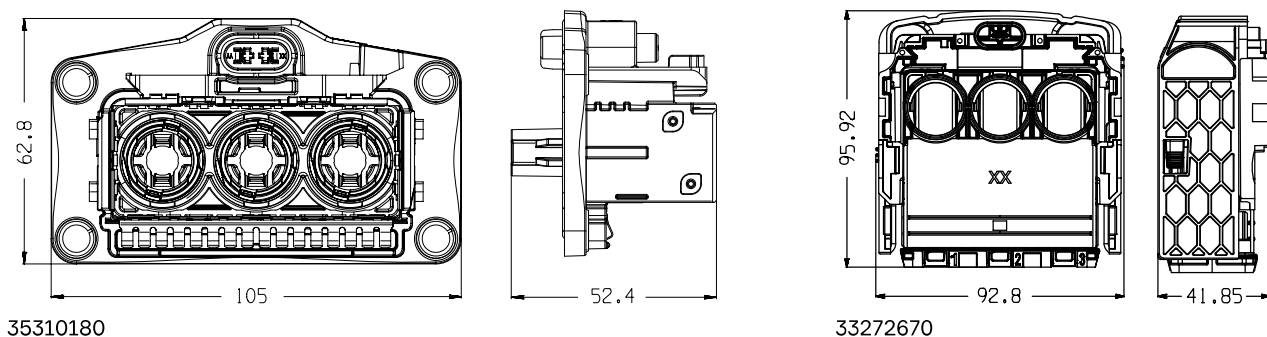


Index	Header connector	Mating connector	BOM
1	35310180	33272670	1
2	35310181	33282936	

## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
35304635	RCS 800 male bus bar terminal silver version polarized pin	3
10811962	DCS2 1.5 female terminal gold-plated 0.5 - 1.0 mm <sup>2</sup>	2
15441379	DCS/DSQ 1.5 red single wire seal 0.35 - 0.5 mm <sup>2</sup>	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1.0 mm <sup>2</sup>	
<b>Mating Connector</b>		
33308229	RCS 890 female terminal silver version 16 - 25 mm <sup>2</sup>	3
33502217	RCS 890 female terminal silver version 35 - 50 mm <sup>2</sup>	
35225104	RCS 890 female terminal silver version 70 mm <sup>2</sup>	
33521619	RCS 890 single wire seal & retainer 16 - 25 mm <sup>2</sup>	3
33511753	RCS 890 single wire seal & retainer 35 - 40 mm <sup>2</sup>	
33511754	RCS 890 single wire seal & retainer 50 mm <sup>2</sup>	
35199856	RCS 890 single wire seal & retainer 70 mm <sup>2</sup>	
33272561	RCS 890 3-way half clamp	2

## DIMENSION MEASUREMENT SAMPLE



# SHIELDPACK™ HV RCS890 SI



## BENEFITS

- Specifically designed for compact environments
- High-water protections resulting from sealed unmated header
- Easy assembly thanks to slider feature on female connector

## FEATURES

- Header has flat and simple device interface
- Connectors dismounting in 2 steps for time delay between interlock opening and power disconnection
- Slider solution offers the maximum pressure surface in limited space conditions

## APPLICATIONS

AC / DC inverter

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DC / DC converter

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HV battery

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Power electric box

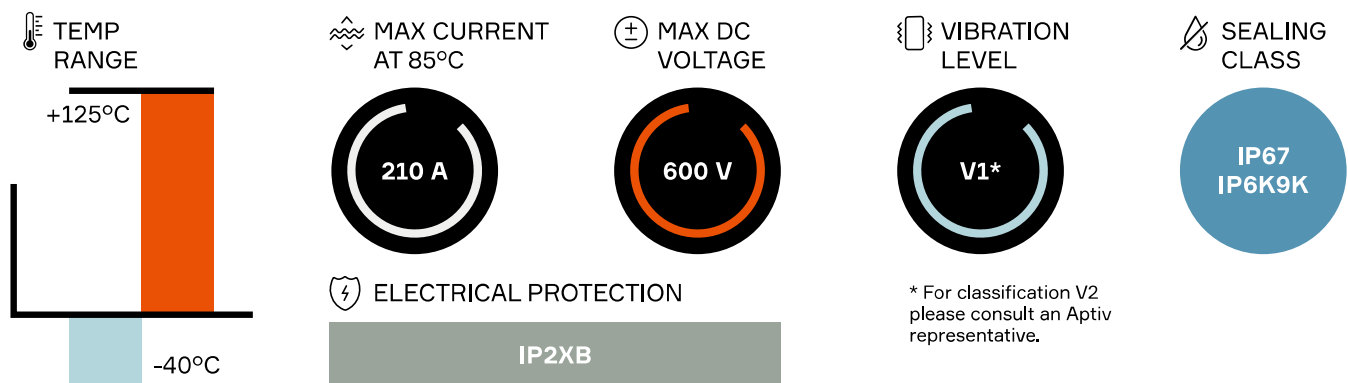
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HV PDU

## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	35 - 70
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	1

## PERFORMANCE

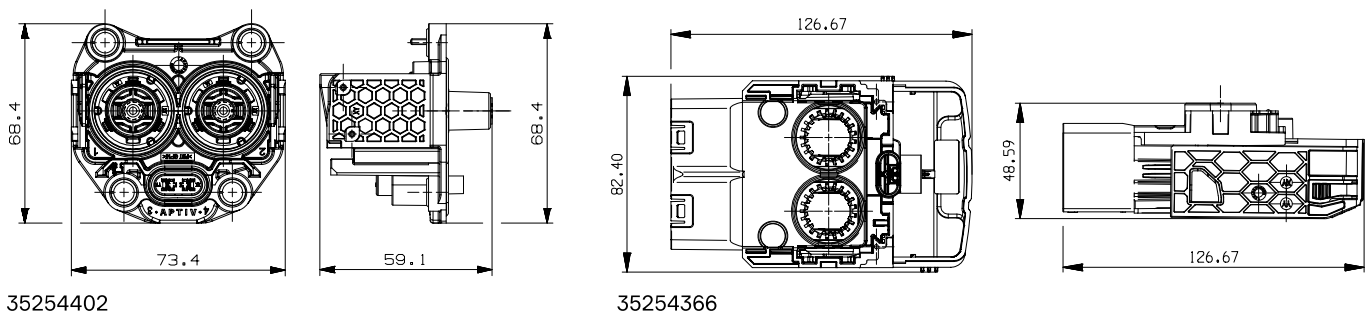


Header connector	Mating connector	BOM
35254402	35254366	1

## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
15549847	DSQ 1.5 female terminal silver-plated 0.35 - 0.50 mm <sup>2</sup>	2
15549848	DSQ 1.5 female terminal silver-plated 0.75 - 1.00 mm <sup>2</sup>	
15441379	DCS/DSQ 1.5 male red single wire seal 0.22 - 0.5 mm <sup>2</sup>	2
15441380	DCS/DSQ 1.5 male grey single wire seal 0.75 - 1.0 mm <sup>2</sup>	
<b>Mating Connector</b>		
33502217	RCS 890 female terminal silver-plated 35 - 50 mm <sup>2</sup>	2
35225104	RCS 890 female terminal silver-plated 70 mm <sup>2</sup>	
35082415	Outer ferrule 35 mm <sup>2</sup>	2
35234890	Outer ferrule 50 - 70 mm <sup>2</sup>	
35084603	Recovery shield assembly 35 mm <sup>2</sup>	2
35236787	Recovery shield assembly 50 - 70 mm <sup>2</sup>	
35084610	Single wire seal & retainer 35 mm <sup>2</sup>	2
35084586	Single wire seal & retainer 50 mm <sup>2</sup>	
35236755	Single wire seal & retainer 70 mm <sup>2</sup>	

## DIMENSION MEASUREMENT SAMPLE



# POWERPACK HV RCS800 UI DM



## BENEFITS

- Cost effective thanks to the direct connection between the female connector and the male terminals within the device case
- Unique and safe mating screwing with innovative Screw Position Assurance (SPA)
- Versatile solution covering multiple applications: high voltage power conversion and 48 volt

## FEATURES

- Robust bolt driven mate assist
- Fingersafe via plastic tips on male pins
- Unshielded connector system

## APPLICATIONS

AC / DC inverter

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DC / DC converter

---

HV battery

---

Power electric box

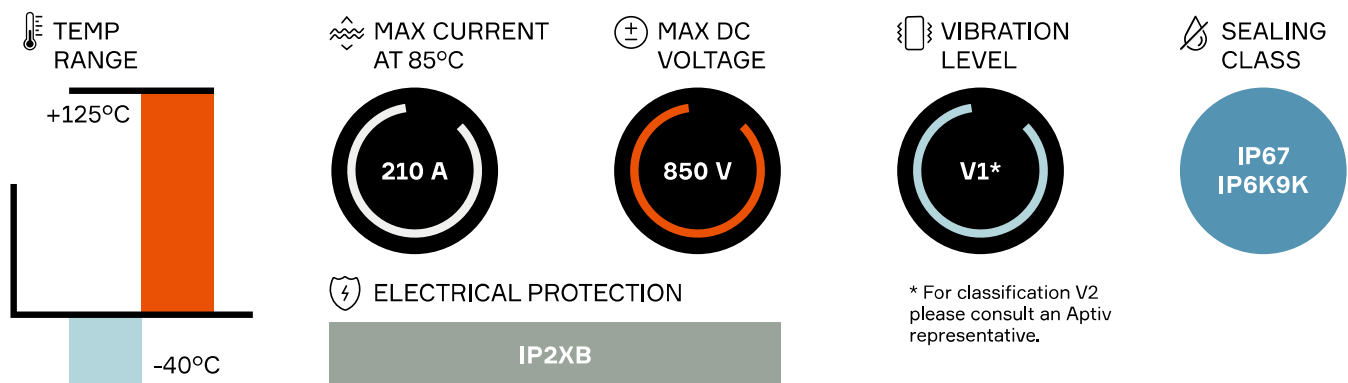
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HV PDU

## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	35 - 50 (power)
Terminal Type	8 mm round contact system
# of Power Terminals	1
Shielding	None
HVIL	None
Assembly Assurance	SPA
Number of Indexes	1

## PERFORMANCE



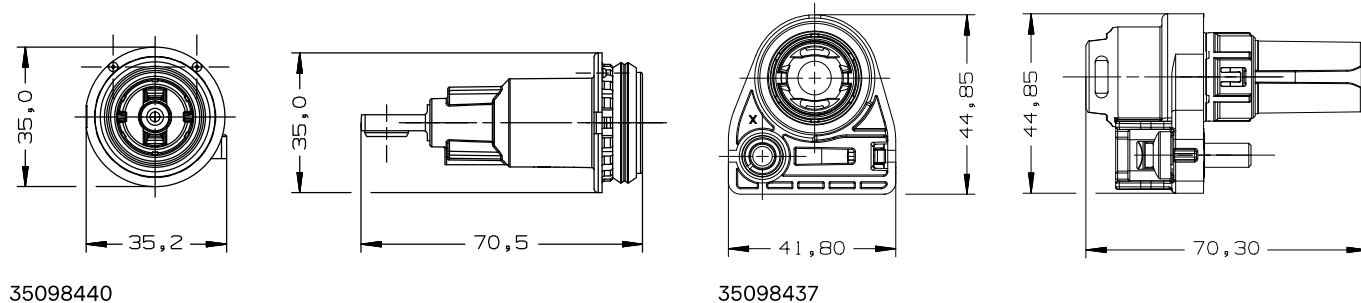
Header connector*	Mating connector	BOM
35098440	35098437	1

\* Header connector is a fully assembled part and therefore has no associated parts.

## ASSOCIATED PARTS

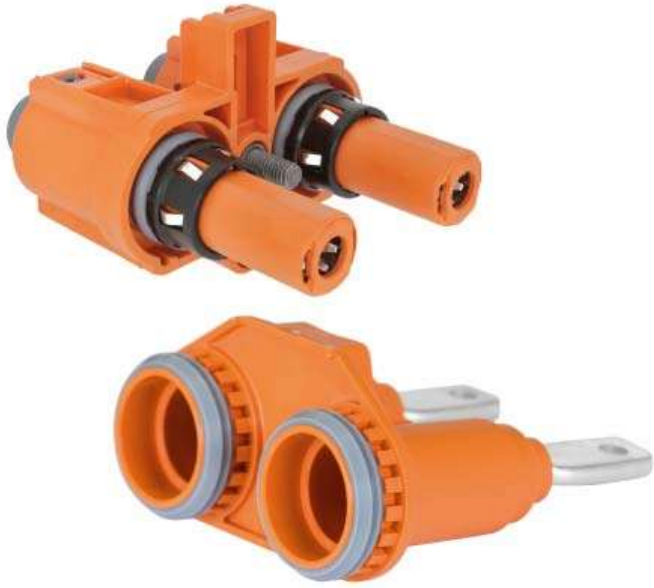
Part number	Description	BOM
<b>Mating Connector</b>		
13893887	RCS 800 female terminal 35 - 50 mm <sup>2</sup>	1
13893888	Female black single wire seal 35 mm <sup>2</sup>	1
13923559	Female grey single wire seal 50 mm <sup>2</sup>	
13893889	Retainer	1

## DIMENSION MEASUREMENT SAMPLE





# SHIELDPACK™ HV RCS800 SI DM



## BENEFITS

- Cost effective solution with unshielded terminal holder within device replacing traditional shielded headers
- Unique and safe mating screwing with innovative Screw Position Assurance (SPA)
- Header is sealed in both mated and unmated position

## FEATURES

- Robust bolt driven mate assist
- Fingersafe via plastic tips on male pins
- Cable range: ~ 50 mm<sup>2</sup> and smaller

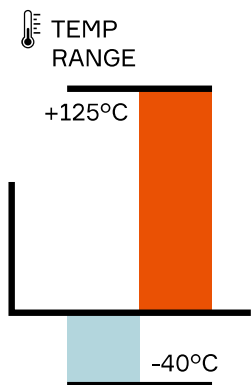
## APPLICATIONS

- AC / DC inverter
- DC / DC converter
- HV battery
- Power electric box
- HV PDU

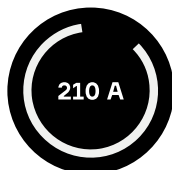
## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	35 - 50 (power) 0.35 - 1.0 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	SPA
Number of Indexes	1

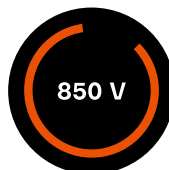
## PERFORMANCE



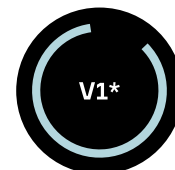
MAX CURRENT AT 85°C



MAX DC VOLTAGE



VIBRATION LEVEL



SEALING CLASS



ELECTRICAL PROTECTION



\* For classification V2 please consult an Aptiv representative.

Header*	Header with HVIL**	Mating connector	BOM
35099885	35099880	35098453	1

\* Header connector is a fully assembled part and therefore has no associated parts.

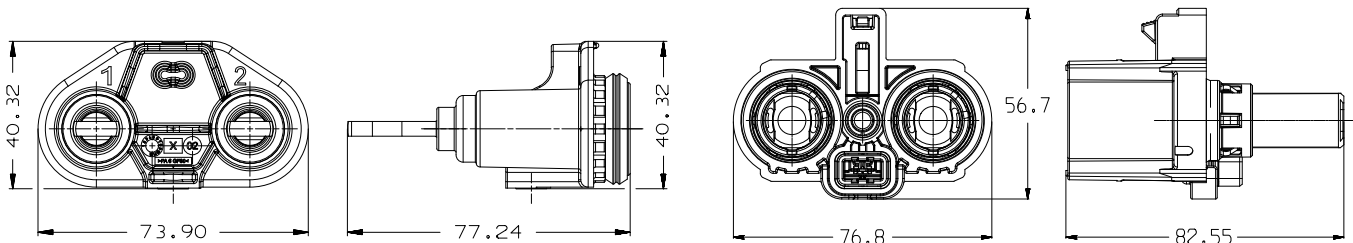
\*\* Please contact your local Aptiv representative for serial production information.

### ASSOCIATED PARTS

Part number	Description	BOM
<b>Mating connector</b>		
13893887	RCS 800 female terminal silver-plated 35 - 50 mm <sup>2</sup>	2
35082410	Inner ferrule 35 and 50 mm <sup>2</sup>	2
35082415	Outer ferrule 35 and 50 mm <sup>2</sup>	2
35099247	Single wire seal & retainer 35 mm <sup>2</sup>	2
35099248***	Single wire seal & retainer 50 mm <sup>2</sup>	
35092416	RCS800 tube 35 - 50 mm <sup>2</sup>	2

\*\*\* Available only by prototype, please contact your local Aptiv representative for more information on serial production.

### DIMENSION MEASUREMENT SAMPLE



35099885

35098453

# SHIELDPACK™ HV RCS890 SI DM



## BENEFITS

- Cost effective solution with unshielded terminal holder within device replacing traditional shielded headers
- Unique and safe mating screwing with innovative Screw Position Assurance (SPA)
- Header is sealed in both mated and unmated position

## FEATURES

- Robust bolt driven mate assist
- Fingersafe via plastic tips on male pins
- Cable range: ~ 50 mm<sup>2</sup> and smaller

## APPLICATIONS

AC / DC inverter

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DC / DC converter

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HV battery

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Power electric box

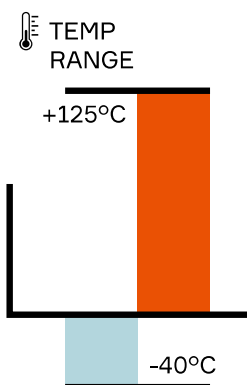
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HV PDU

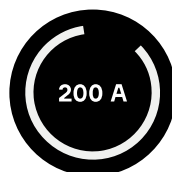
## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	35 - 50 (power) 0.35 - 1.0 (HVIL)
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	SPA (Screwed Position Assurance)
Number of Indexes	1

## PERFORMANCE



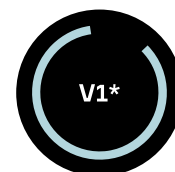
MAX CURRENT AT 85°C



MAX DC VOLTAGE



VIBRATION LEVEL



SEALING CLASS



ELECTRICAL PROTECTION

IP2XB

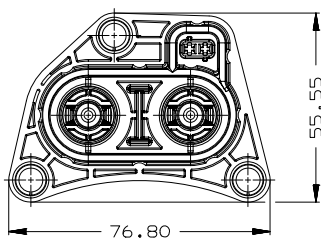
\* For classification V2 please consult an Aptiv representative.

Header	Mating connector	BOM
35084594	35084575	1

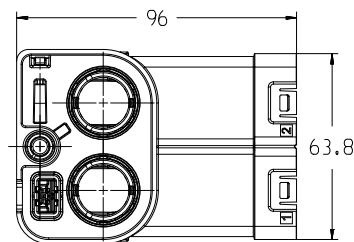
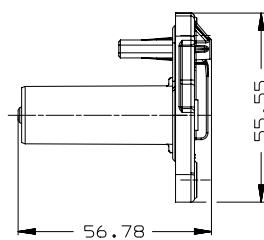
## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
15549847	DSQ 1.5 female terminal silver-plated 0.35 - 0.50 mm <sup>2</sup>	2
15549848	DSQ 1.5 female terminal silver-plated 0.75 - 1.00 mm <sup>2</sup>	
15441379	DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm <sup>2</sup>	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1.0 mm <sup>2</sup>	
<b>Mating connector</b>		
33502217	RCS 890 female terminal silver-plated 35 - 50 mm <sup>2</sup>	2
35082415	Outer ferrule 35 mm <sup>2</sup>	2
35234890	Outer ferrule 50 mm <sup>2</sup>	
35084603	Recovery shield assembly 35 mm <sup>2</sup>	2
35236787	Recovery shield assembly 50 mm <sup>2</sup>	
35084610	Single wire seal & retainer 35 mm <sup>2</sup>	2
35084586	Single wire seal & retainer 50 mm <sup>2</sup>	

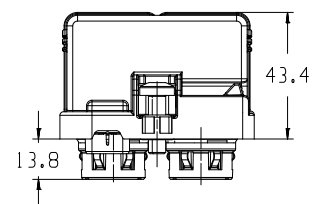
## DIMENSION MEASUREMENT SAMPLE



35084594



35084575



# SHIELDPACK™ HV PP2000 SI



## BENEFITS

- Header interface is integrated into device case
- Cost-effective full plastic header assembled from inside out
- Bolt driven mate assist
- Ultrasonic welding used for power terminal

## FEATURES

- Internal HVIL shunted in harness connector
- Finger proof and non-finger proof options available
- Provides finger proof terminal towers and HVIL
- Header accepts busbars provided by module

## APPLICATIONS

AC / DC inverter

DC / DC converter

HV battery

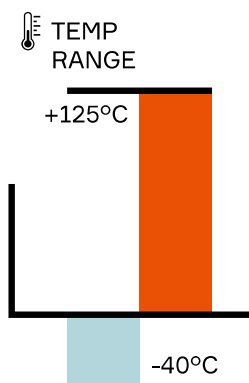
Power electric box

HV PDU

## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	35 - 50 (power) 0.5 (HVIL)
Terminal Type	Power Pack 2000 17.7
# of Terminals	2
Shielding Type	Individual
HVIL	Shunt on female
Assembly Assurance	CPA/TPA
Number of Indexes	1

## PERFORMANCE



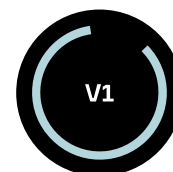
MAX CURRENT AT 85°C



MAX DC VOLTAGE



VIBRATION LEVEL



SEALING CLASS



ELECTRICAL PROTECTION

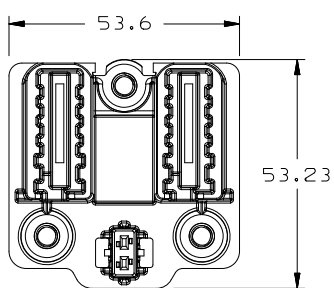
IP2XB

Header connector	Mating connector	BOM
33346375	33352038	1

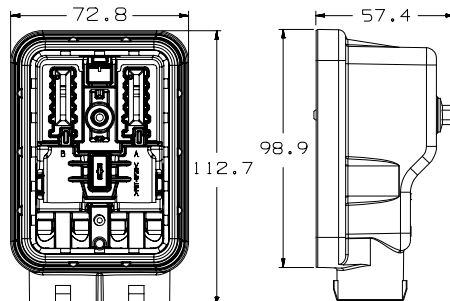
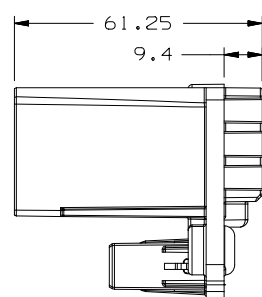
## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
15432237	CTS female terminal silver-plated HVIL 0.35 mm <sup>2</sup>	2
33346276	HVIL TPA	1
<b>Mating Connector</b>		
13801592	Power Pack 2000 female sonic weld terminal	2
33352058	Inner ferrule 35 mm <sup>2</sup>	2
33352059	Inner ferrule 50 mm <sup>2</sup>	2
33352056	Outer ferrule 35 mm <sup>2</sup> & 50 mm <sup>2</sup>	2
33352048	Cable seal 35 mm <sup>2</sup>	2
33352049	Cable seal 50 mm <sup>2</sup>	2
33352051	Strain relief 35 mm <sup>2</sup>	2
33352052	Strain relief 50 mm <sup>2</sup>	2
33352055	TPA	1
13849267	Fastener M5	1

## DIMENSION MEASUREMENT SAMPLE



33346375



33352038

# SHIELDPACK™ HV RCS1190 SI



## BENEFITS

- Specifically designed for harsh environment applications
- 180° header option also available (see HV RCS 1100 Series datasheet)
- Unique and safe mating screwing thanks to innovative Screw Position Assurance
- Same device interface for both RCS 1100 and RCS 1190

## FEATURES

- Up to 95 mm<sup>2</sup> cross sections
- Made for applications with needs up to 375 A
- Compliant to LV214/215

## APPLICATIONS

Inverter

E-Motor

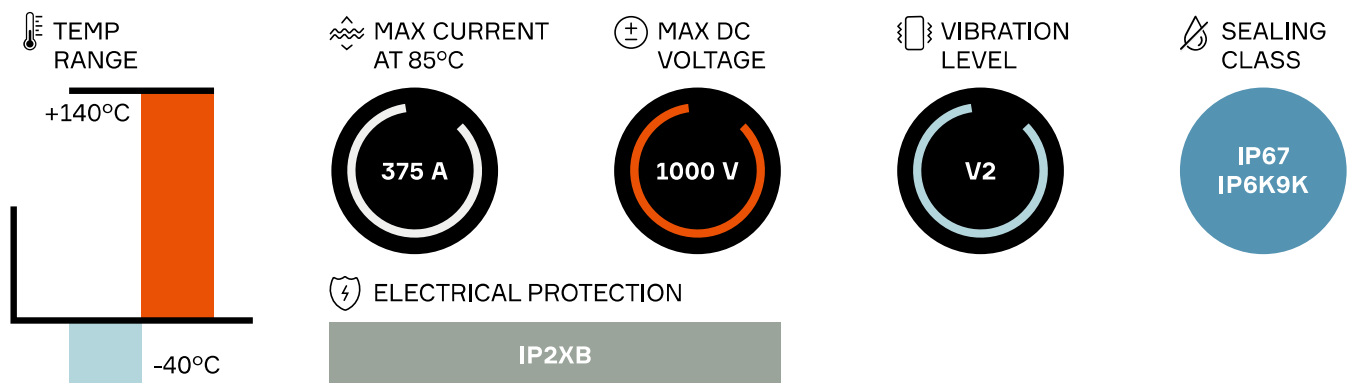
HV PDU

HV-Battery

## AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm <sup>2</sup> )	50 - 95 (power) 0.5 - 0.75 (HVIL)
Terminal Type	11 mm round contact system
# of Power Terminals	2
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	SPA (Screw Position Assurance)
Number of Indexes	2

## PERFORMANCE

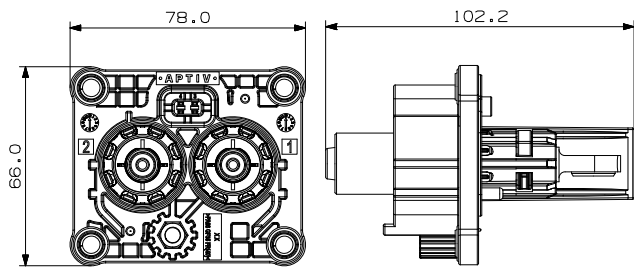


Index	Header connector	Mating connector	BOM
1	35210644	35210554	1
2	35210645	35210555	

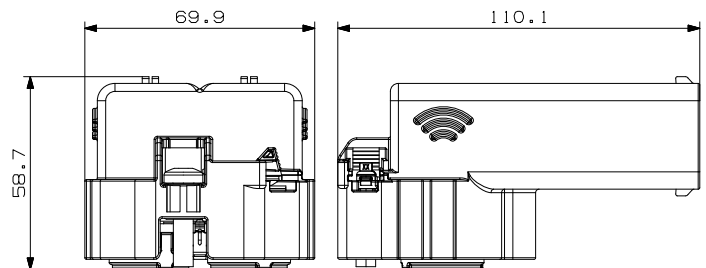
**ASSOCIATED PARTS**

Part number	Description	BOM
<b>Header Connector</b>		
15414399	HVIL DSQ terminal gold-plated 0.35 - 0.50 mm <sup>2</sup>	2
15414401	HVIL DSQ terminal gold-plated 0.75 - 1.0 mm <sup>2</sup>	
<b>Mating Connector</b>		
35210576	RCS 1190 female terminal silver version 50 mm <sup>2</sup>	2
35210578	RCS 1190 female terminal silver version 70/95 mm <sup>2</sup>	
35210585	Inner ferrule 50 mm <sup>2</sup>	2
35210586	Inner ferrule 70 mm <sup>2</sup>	
35210587	Inner ferrule 95 mm <sup>2</sup>	
35210591	Outer ferrule 50 mm <sup>2</sup>	2
35210592	Outer ferrule 70 mm <sup>2</sup>	
35210593	Outer ferrule 95 mm <sup>2</sup>	
35210637	Cable strain relief 50 mm <sup>2</sup>	2
35210638	Cable strain relief 70 mm <sup>2</sup>	
35210639	Cable strain relief 95 mm <sup>2</sup>	
35210634	Cable seal 50 mm <sup>2</sup>	2
35210635	Cable seal 70 mm <sup>2</sup>	
35210636	Cable seal 95 mm <sup>2</sup>	

**DIMENSION MEASUREMENT SAMPLE**



35210644



35210554



# SHIELDPACK™ HV AK PLASTIC PASS-THROUGH SI AK



## BENEFITS

- Very compact dimensions
- High robustness against vibrations
- Higher operating temperatures

## FEATURES

- Ring terminal is bolted to device
- Cables are 360° individually shielded
- High voltage panel mount system
- Fully interchangeable with other AK supplier sources

## APPLICATIONS

AC / DC inverter

HV battery

HV PDU

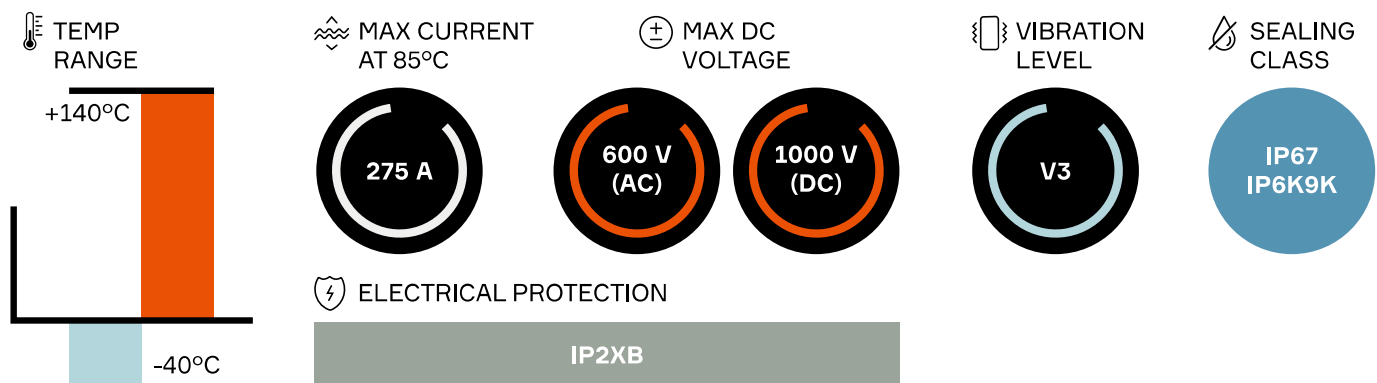
Power electric box

E-motor

## AVAILABLE CONFIGURATIONS

Connector Type	Pass-through
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	16 - 50 (power)
Terminal Type	O-ring
Shielding	Individual
HVIL	None

## PERFORMANCE



### Main Housing Body Components

Code	Number of ways			BOM
	1	2	3	
A	33340524	33340525	33340526	1
B	35066699	-	-	

### ASSOCIATED PARTS

Description	Cable size				BOM*
	16 mm <sup>2</sup>	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	
Peripheral seal	35116341				1, 2 or 3
Inner ferrule	35172747				1, 2 or 3
Outer ferrule	33340554	35172745	35172743	33340551	1, 2 or 3
Single wire seal	33340537	35172739	35172738	33340534	1, 2 or 3
Cable strain relief	33340542	33340541	33340540	33340539	1, 2 or 3

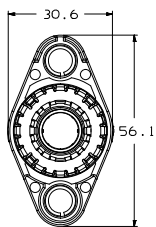
\* Depending on if the component is for 1, 2 or 3 Way pass-through.

### Component Kits\*\*

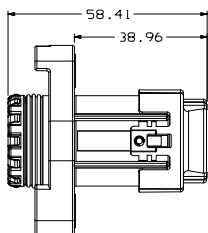
Code	Cable size				BOM
	16 mm <sup>2</sup>	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	
<b>1 Way</b>					
A	33350177	33350176	33350175	33349598	1
B	-	-	-	35083309	1
<b>2 Way</b>					
A	33350180	33350179	3335178	33349600	2
<b>3 Way</b>					
A	33350183	33350182	33350181	33350072	3

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

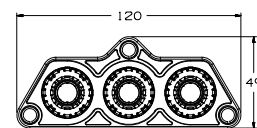
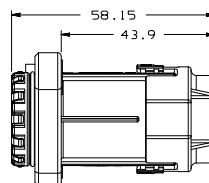
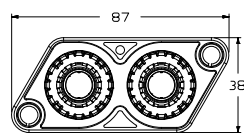
### DIMENSION MEASUREMENT SAMPLE



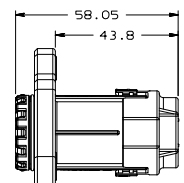
33340524



33340525



33340526



# SHIELDPACK™ HV METAL PASS-THROUGH SI



## BENEFITS

- Robust design for harsh environments
- Very compact dimensions
- Wide variety of indexes depending on wire sections

## FEATURES

- High voltage panel mount system
- 1 Way sealed and shielded solution
- Ring terminal bolted to device

## APPLICATIONS

AC / DC inverter

HV battery

HV PDU

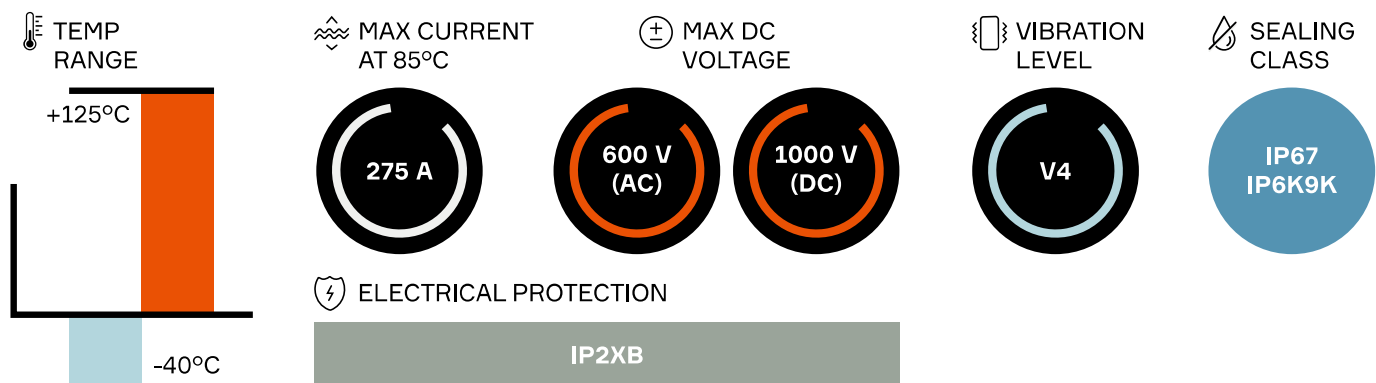
Power electric box

E-motor

## AVAILABLE CONFIGURATIONS

Connector Type	Pass-through
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	25 - 50 (power)
Terminal Type	Ring
# of Power Terminals	1
Shielding	Individual
HVIL	None
Number of Indexes	6-8, depending on wire section

## PERFORMANCE



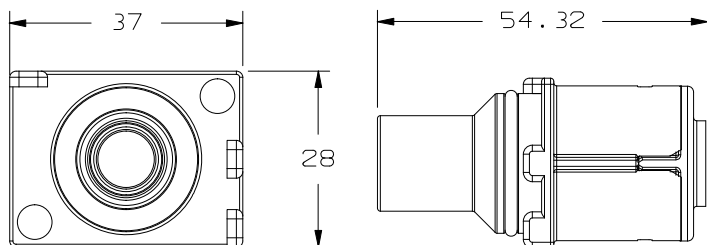
### Main Housing Body Components

Index	25 mm <sup>2</sup> wire section	35 mm <sup>2</sup> wire section	50 mm <sup>2</sup> wire section	BOM
102	13888001	13894189	33112598	1
103	13888002	13894190	33112599	
104	13888003	13894191	33112600	
105	13888004	13894192	33112601	
106	-	-	33112602	
107	-	-	33112608	
108	33253253	33253255	33112609	
109	33253254	33253256	33112610	

### ASSOCIATED PARTS

Part number	Description	Part number	Description	Part number	Description
<b>25 mm<sup>2</sup></b>		<b>35 mm<sup>2</sup></b>		<b>50 mm<sup>2</sup></b>	
13888023	25 mm <sup>2</sup> seal retainer	13894241	35 mm <sup>2</sup> seal retainer	33112613	50 mm <sup>2</sup> seal retainer
13888030	25 mm <sup>2</sup> seal	33288396	35 mm <sup>2</sup> seal	33112616	50 mm <sup>2</sup> seal
13888025	O-ring seal	13888025	O-ring seal	13888025	O-ring seal
33295901	25 mm <sup>2</sup> ferrule	33295902	35 mm <sup>2</sup> ferrule	33295903	50 mm <sup>2</sup> ferrule

### DIMENSION MEASUREMENT SAMPLE



13888001