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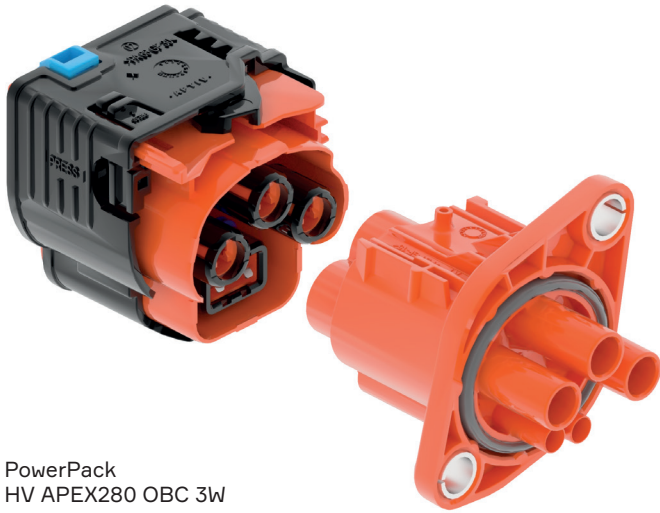
[www.aptiv.nt-rt.ru](http://www.aptiv.nt-rt.ru) | | [avi@nt-rt.ru](mailto:avi@nt-rt.ru)

# Технические характеристики на ВЫСОКОВОЛЬТНЫЕ МЕЖСОЕДИНИТЕЛЬНЫЕ КОЛОДКИ POWERPACK HV КОМПАНИИ **ARTIV PLC**

**Серии:** HV APEX280 OBC 3 WAY, HV APEX280 OBC 5 WAY, HV HES240 UI OBC, HV RCS800 UI DM, HV630 UI OBC 2 WAY.

# POWERPACK

## HV APEX280 OBC 3W



PowerPack  
HV APEX280 OBC 3W

### BENEFITS

- Optimized for 40A on-board charging solutions using 6 mm<sup>2</sup> cable range
- Robust and field proven Apex® 2.8 terminal technology
- Best in class safety and ergonomics in a compact package

### FEATURES

- Compact two-piece design
- Robust connection: 3.9G vibration, 125°C temp range
- Easy mating ErgoMate™ system
- HVIL shunt on female connector



### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	6
Terminal Type	Apex® 2.8
# of Terminals	3
Shielding Type	Unshielded
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	1



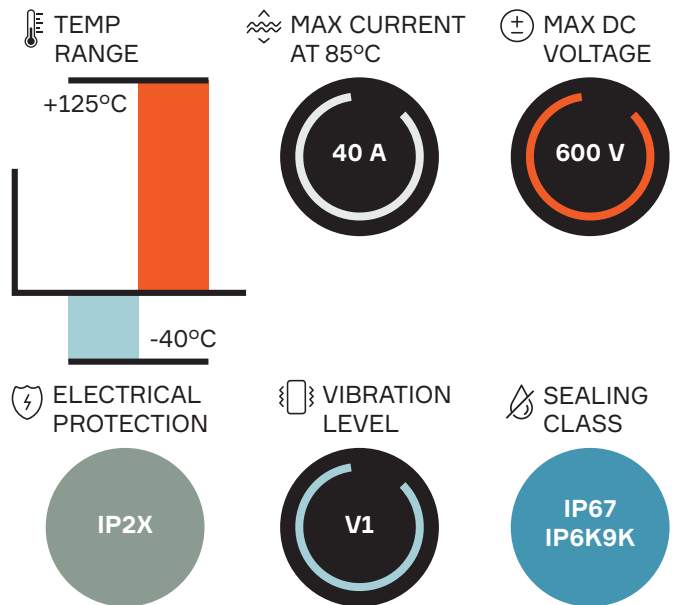
### APPLICATIONS

Inlet LV, On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.



### TECHNICAL CHARACTERISTICS



## About Aptiv

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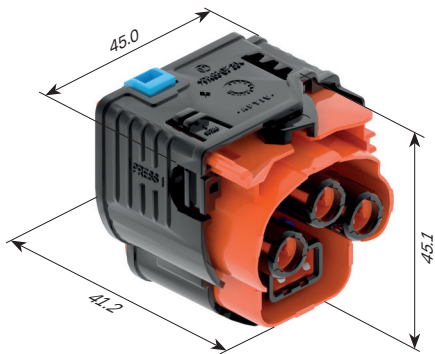


Header connector	Mating connector	BOM
35328058	35328072	1

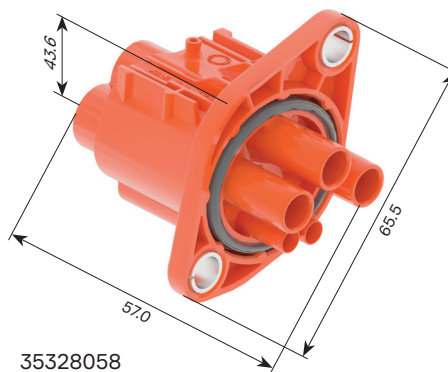
## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
15516298	APEX® 2.8 male tinned terminal 4 - 6 mm <sup>2</sup>	3
33511802	DCS2 1.5 male terminal gold-plated 0.22 - 0.35 mm <sup>2</sup>	2
10779703	DCS2 1.5 male terminal gold-plated 0.5 - 1.0 mm <sup>2</sup>	
<b>Mating connector</b>		
10810733	APEX® 2.8 female tinned terminal 4 - 6 mm <sup>2</sup>	3
<b>Seals</b>		
15324981	Single wire seal blue (for JASO wire: EEX, EEHX, EEHX-BSX)	6
12186636	Single wire seal white (for ISO thin wall cable)	6
15441379	Single wire seal red 0.35 - 0.5 mm <sup>2</sup>	2
15441380	Single wire seal grey 0.75 - 1 mm <sup>2</sup>	
35453673	Protective cover	1

## DIMENSION MEASUREMENT SAMPLE



35328072



35328058

## COMPATIBLE WITH



# POWERPACK

## HV RCS800 UI DM 1 WAY



### 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



### APPLICATIONS

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

See back page for representative part numbers and packaging dimensions.

### BENEFITS

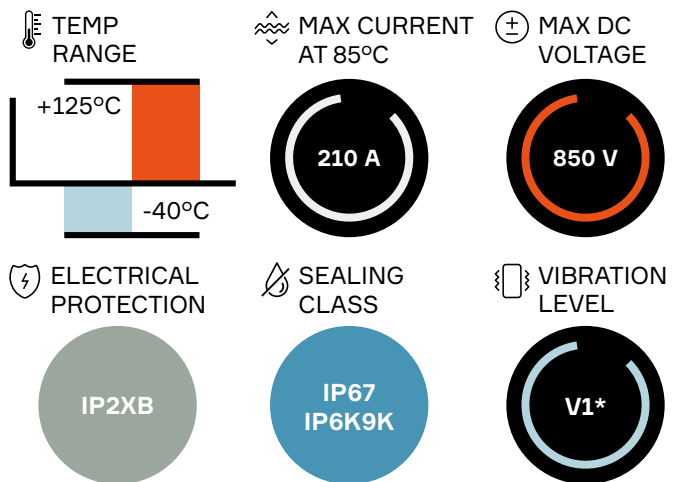
- Cost effective thanks to the direct connection between the female connector and the male terminals within the device case
- Unique and safe mating screwing with innovative Screw Position Assurance (SPA)
- Versatile solution covering multiple applications: high voltage power conversion and 48 volt

### FEATURES

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



### PERFORMANCE



\* For classification V2 please consult an Aptiv representative.

## About Aptiv

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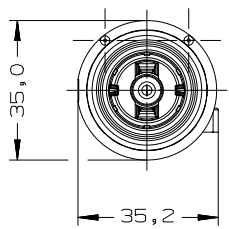
Header connector*	Mating connector	BOM
35098440	35098437	1

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

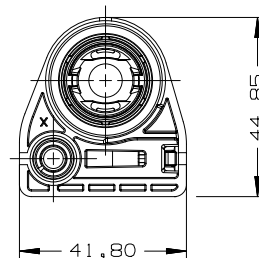
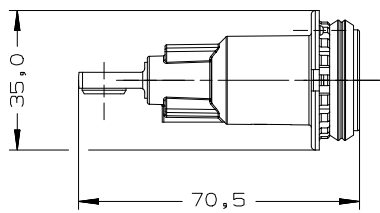
## ASSOCIATED PARTS

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

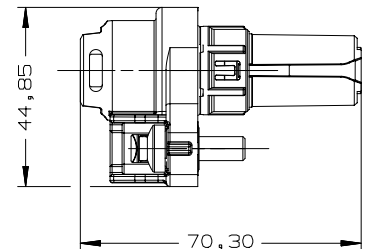
### DIMENSION MEASUREMENT SAMPLE



35098440



35098437



# POWERPACK

## HV630 UI OBC 2 WAY



### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device, wire-to-wire
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	6 - 12
Terminal Type	6.3 Terminal
# of Power Terminals	2 power
Shielding Type	Unshielded
HVIL	2 Signal cables
Assembly Assurance	CPA
Number of Indexes	3



### APPLICATIONS

On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.

### BENEFITS

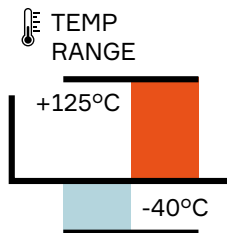
- Inner connector with TPA can be plugged into header during device assembly (on wire-to-device)
- Industry leading vibration performance
- External header housing is the same for the HV280 and HV630

### FEATURES

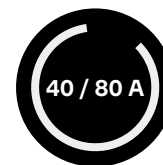
- Tool-less unmating system
- Finger proof/touch safe
- Panel mount to device with face seal (on wire-to-device)
- Aluminum compression bushings
- ISO cable compatibility
- Secondary terminal locking



### PERFORMANCE



MAX CURRENT AT 85°C



MAX DC VOLTAGE



ELECTRICAL PROTECTION



SEALING CLASS



VIBRATION LEVEL



### About Aptiv

Aptiv is a global technology company that develops safer, greener and more connected solutions enabling the future of mobility.



## CONNECTOR PART NUMBERS

Index	Header connector 80 A	Header connector 40 A Sealed even unmated	Inline Male Connector 80 A	Mating connector	BOM
101	35197119	35472532	35197170	35197127	1
102	35197120	-	35197171	35197129	1
103	-	-	35312616	35197131	1

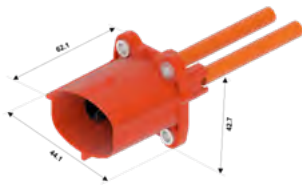
## ASSOCIATED PARTS

Part Number		Description	BOM
<b>Header 80 A</b>	<b>Header 40 A Sealed even unmated</b>		
35197125	35472597	TPA	1
13964786		OCS 1.5 Male Terminal sealed 0.75 - 1 mm <sup>2</sup>	2
13834623		Cable Seal OCS 1.5, 0.75 - 1 mm <sup>2</sup>	2
35135145*	-	6.3 Male Terminal	2
-	33386364	APEX® Male terminal 6.3 for 6 mm <sup>2</sup>	2
-	10810380	Cable Seals - APEX® 6.3 for 6 mm <sup>2</sup>	2
<b>Inline connector</b>			
35197125		Inner Connector	1
35197158		Cable Seal 8 mm <sup>2</sup>	2
35197159		Cable Seal 10 mm <sup>2</sup>	2
35197160		Cable Seal 12 mm <sup>2</sup>	2
35197162		Retainer - Cable Seal 8 mm <sup>2</sup>	2
35197163		Retainer - Cable Seal 10 & 12 mm <sup>2</sup>	2
13964786		OCS 1.5 Male Terminal sealed 0.75 - 1 mm <sup>2</sup>	2
13834623		Cable Seal OCS 1.5 0.75 - 1 mm <sup>2</sup>	2
35135145*		6.3 Male Terminals	2
<b>Mating connector</b>			
35171862*		6.3 Female Terminals crimp version 6 - 10 mm <sup>2</sup>	2
35116544*		6.3 Female Terminals Weld to Wire option	2
35406662**		Cable Seal 6 mm <sup>2</sup>	2
35197158		Cable Seal 8 mm <sup>2</sup>	2
35197159		Cable Seal 10 mm <sup>2</sup>	2
35197160		Cable Seal 12 mm <sup>2</sup>	2
35197162		Retainer - Cable Seal 6 & 8 mm <sup>2</sup>	2
35197163		Retainer - Cable Seal 10 & 12 mm <sup>2</sup>	2
35138799		OCS 1.5 Female Terminal sealed 0.75 - 1 mm <sup>2</sup>	2
35138798		OCS 1.5 Female Terminal sealed 1.25 - 1.5 mm <sup>2</sup>	2
35138799		Cable Seal OCS 1.5	2

\* Non Aptiv terminal, please consult us

\*\* Valid only for Header Connector 40A

## DIMENSION MEASUREMENT SAMPLE



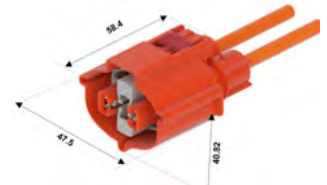
Header Connector 80A



Header Connector 40A



Inline Male Connector



Mating Connector

# POWERPACK

## HV APEX280 OBC 5W



PowerPack  
HV APEX280 OBC 5W

### BENEFITS

- Optimized for 40A on-board charging solutions using 6 mm<sup>2</sup> cable range
- Robust and field proven Apex® 2.8 terminal technology
- Best in class safety and ergonomics in a compact package

### FEATURES

- Compact two-piece design
- Robust connection: 3.9G vibration, 125°C temp range
- Easy mating ErgoMate™ system
- HVIL shunt on female connector



### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	6
Terminal Type	Apex® 2.8
# of Terminals	5
Shielding Type	Unshielded
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	1



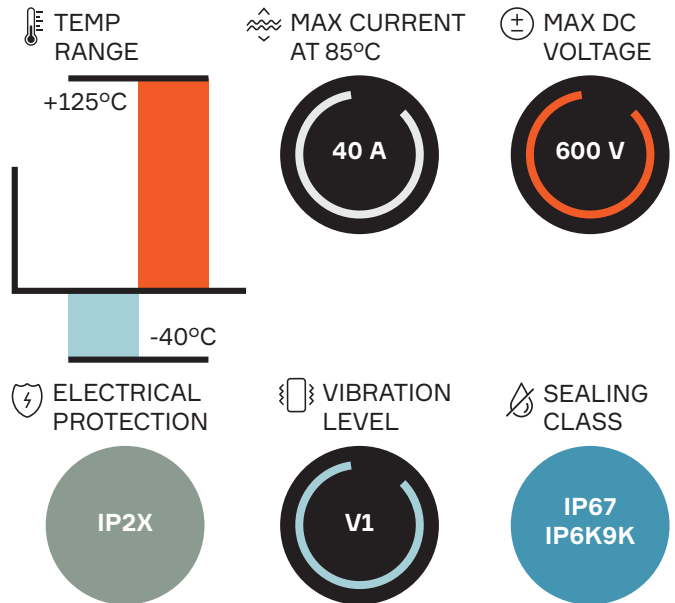
### APPLICATIONS

Inlet LV, On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.



### TECHNICAL CHARACTERISTICS



### About Aptiv

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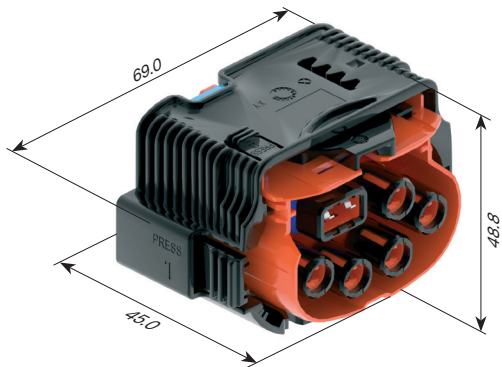


Header connector	Mating connector	BOM
35329007	35329023	1

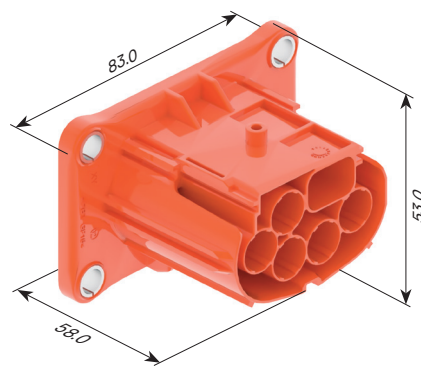
## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header</b>		
15516298	APEX® 2.8 male tinned terminal 4 - 6 mm <sup>2</sup>	5
33511802	DCS2 1.5 male terminal gold-plated 0.22 - 0.35 mm <sup>2</sup>	2
10779703	DCS2 1.5 male terminal gold-plated 0.5 - 1.0 mm <sup>2</sup>	
<b>Mating connector</b>		
10810733	APEX® 2.8 female tinned terminal 4 - 6 mm <sup>2</sup>	5
<b>Seals</b>		
15324981	Single wire seal blue (for JASO wire: EEX, EEHX, EEHX-BSX)	5
12186636	Single wire seal white (for ISO thin wall cable)	5
15441379	DCS 1.5 red single wire seal 0.35 - 0.5 mm <sup>2</sup>	2
15441380	DCS 1.5 grey single wire seal 0.75 - 1 mm <sup>2</sup>	
35453676	Protective cover	1

## DIMENSION MEASUREMENT SAMPLE



35329023



35329007

## COMPATIBLE WITH



Protective cover

# POWERPACK

## HV HES240 UI OBC 4 WAY



### AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device, wire-to-wire
Cable Exit Orientation	180°
Cable Range (mm <sup>2</sup> )	3 - 6 (power) 0.75 - 1 (HVIL)
Terminal Type	HES 1.0 (signal) HES 2.4 (power)
# of Power Terminals	4 (2 signal terminals)
Shielding Type	Unshielded
HVIL	None
Assembly Assurance	CPA
Number of Indexes	2



### APPLICATIONS

On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.

### BENEFITS

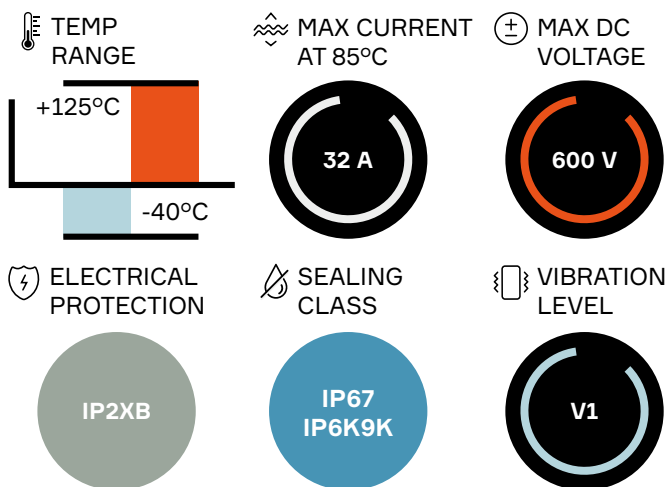
- Field proven technology widely used across electrification market
- Configurable for both 1-phase and 3-phase applications
- Compact packaging

### FEATURES

- Finger proof/touch safe
- Capability for 4 power circuits and 2 signal circuits
- Unshielded system with terminal spacing for HV applications
- One-stage locking system with CPA
- Aluminum compression bushings



### PERFORMANCE



### About Aptiv

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## 6 Way Device Connection System

Header connector	Mating connector		BOM
	16A	32A	
33229378	13879051 (2+2)	13879048 (2+2)	1
	15525754 (3+0)	15525753 (3+0)	
	13879050 (3+2)	13879047 (3+2)	
	13879049 (4+2)	13879046 (4+2)	

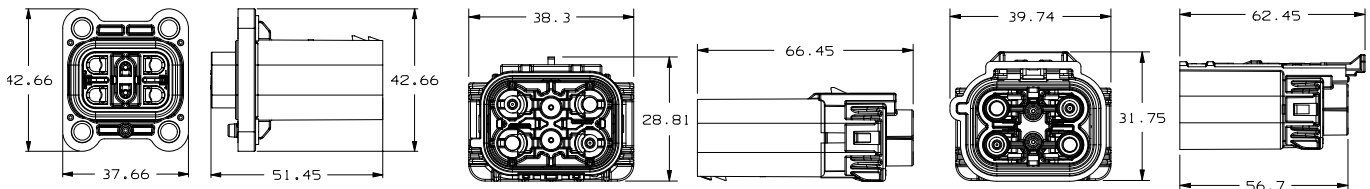
## 6 Way Inline Connection System

Male inline 16A	Male inline 32A	Mating connector	
		16A	32A
13990593 (2+2)	13990590 (2+2)	13879051 (2+2)	13879048 (2+2)
13990591 (4+2)	13990588 (4+2)	13879049 (4+2)	13879046 (4+2)

## ASSOCIATED PARTS

Part number	Description	BOM
<b>Header / Male inline</b>		
13711549	1.0 HES gold-plated 0.75 - 1 mm <sup>2</sup>	2 or 4
13783283	2.4 HES gold-plated 2 - 3 mm <sup>2</sup>	2, 3, or 4
13783284	2.4 HES gold-plated 4 - 6 mm <sup>2</sup>	
<b>Mating connector</b>		
13711549	1.0 HES gold-plated 0.75 - 1 mm <sup>2</sup>	2 or 4
13955307	2.4 HES gold-plated 2 - 3 mm <sup>2</sup>	2, 3, or 4
13955308	2.4 HES gold-plated 4 - 6 mm <sup>2</sup>	

## DIMENSION MEASUREMENT SAMPLE



33229378

13990590

13879048\*

\* Female connector is compatible with both device & inline male connectors.

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