

Алматы (7273)495-231	Иваново (4932)77-34-06	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Тверь (4822)63-31-35
Ангарск (3955)60-70-56	Ижевск (3412)26-03-58	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тольятти (8482)63-91-07
Архангельск (8182)63-90-72	Иркутск (395)279-98-46	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Астрахань (8512)99-46-04	Казань (843)206-01-48	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)33-79-87
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Нижний Новгород (831)429-08-12	Саранск (8342)22-96-24	Тюмень (3452)66-21-18
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Новокузнецк (3843)20-46-81	Санкт-Петербург (812)309-46-40	Ульяновск (8422)24-23-59
Благовещенск (4162)22-76-07	Кемерово (3842)65-04-62	Ноябрьск (3496)41-32-12	Саратов (845)249-38-78	Улан-Удэ (3012)59-97-51
Брянск (4832)59-03-52	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Владивосток (423)249-28-31	Коломна (4966)23-41-49	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Владикавказ (8672)28-90-48	Кострома (4942)77-07-48	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Чебоксары (8352)28-53-07
Владимир (4922)49-43-18	Краснодар (861)203-40-90	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Челябинск (351)202-03-61
Волгоград (844)278-03-48	Красноярск (391)204-63-61	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Череповец (8202)49-02-64
Вологда (8172)26-41-59	Курск (4712)77-13-04	Петрозаводск (8142)55-98-37	Сургут (3462)77-98-35	Чита (3022)38-34-83
Воронеж (473)204-51-73	Курган (3522)50-90-47	Псков (8112)59-10-37	Сыктывкар (8212)25-95-17	Якутск (4112)23-90-97
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81		Тамбов (4752)50-40-97	Ярославль (4852)69-52-93

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Киргизия +996(312)96-26-47

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Технические характеристики на ВЫСОКОВОЛЬТНЫЕ МЕЖСОЕДИНИТЕЛЬНЫЕ КОЛОДКИ SHIELDPACK, часть 2 КОМПАНИИ **APTIV PLC**

Серии: HV APEX280 SB, HV APEX280 SB DM, HV APEX280 SI 4 WAY, HV CLASS 2 SMU 5 WAY, HV CTS280 SI, HV CTS630 SI, HV CTS630 SI 4 WAY, HV METAL PASS-THROUGH SI, HV PLASTIC PASS-THROUGH SI 50-70mm² 2 WAY, HV PLASTIC PASS-THROUGH SI 95-120mm² 1 AND 2 WAY, HV PP2000 SI, HV RCS1190 SI, HV RCS800 SB, HV RCS800 SI DM, HV RCS890 SB, HV RCS890 SB RV - 2 Way, HV RCS890 SB RV - 3 Way, HV RCS890 SI, HV RCS890 SI DM, HV630 HVIL SI 2 WAY, SHIELDPACK-HV-METAL-PASS-THROUGH-SI-70-95mm²-1-WAY.

SHIELDPACK™ HV PLASTIC PASS-THROUGH SI 95-120mm² 1 AND 2 WAY



BENEFITS

- Plastic main housing frame
- Terminal Size/Style: Ring/Tongue

FEATURES

- High operating temperature
- High robustness against vibrations
- Solution for demands on 120 mm²
- More operation-friendly cable anti-rotation feature



AVAILABLE CONFIGURATIONS

Connector Type	Pass-through
Cable Exit Orientation	180°
Cable Range (mm ²)	95 - 120
Terminal Type	Ring/Tongue
# of Power Terminals	1W & 2W
Shielding	360° Shielding
HVIL	None
# of Indexes	1



APPLICATIONS

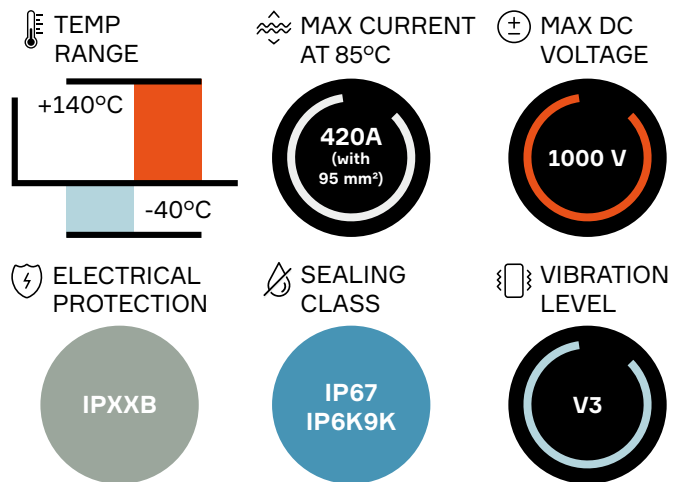
Powertrain High Voltage / Current Modules:

Power Inverter / Converter	E-motor
PDU	

See back page for representative part numbers and packaging dimensions.



PERFORMANCE



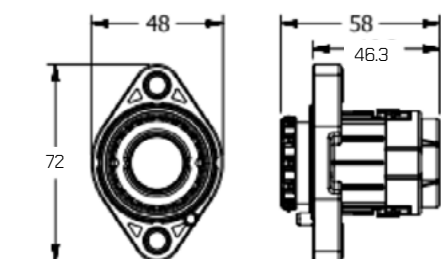
Main Housing Body Components

Code	Number of ways		BOM
	1	2	
A	35525372	35699674	1

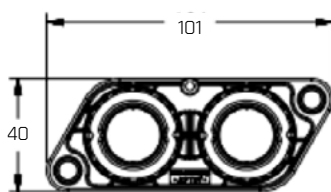
ASSOCIATED PARTS

Description	1 Way		2 Way		BOM
	95 mm ²	120 mm ²	95 mm ²	120 mm ²	
Peripheral Face Seal	35525378		35699674		1 or 2
Single Wire Seal (M6371)	35525381	35525380	35525381	35525380	1 or 2
Protection Cover Assy	35525384	35525383	35525384	35525383	1 or 2
Shielding Outer Ferrule	35525391	35525390	35525391	35525390	1 or 2
ASM Shield Terminal	35525392				1 or 2
Ring Terminal	35617874				1 or 2

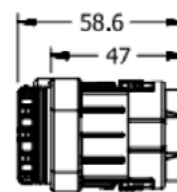
DIMENSION MEASUREMENT SAMPLE



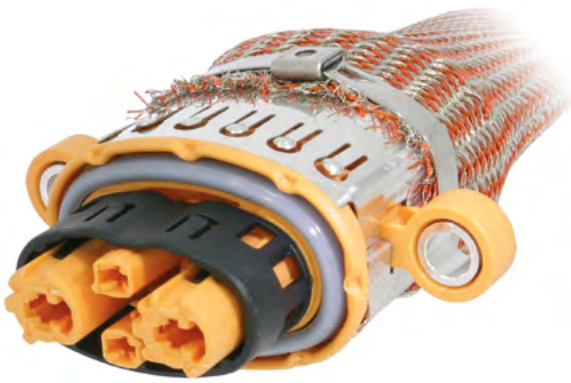
35525372



35699674



SHIELDPACK™ HV APEX280 SB DM



ShieldPack™ HV APEX280 SB DM

BENEFITS

- Same connector for both bundle and individual cable shielding
- Cost effective solution thanks to the direct connection between the female connector and the male terminals within the device case
- High EMC & RFI shielding performance with direct connection to metal device case

FEATURES

- Two HV power circuits (APEX® 2.8 mm terminal)
- Bundle shielding with external braid in serial production
- Individual cable shielding version available by request
- Integrated HVIL (HV interlock line)



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm ²)	2.5 - 6 (power) 0.5 - 0.75 (HVIL)
Terminal Type	APEX® 2.8
# of Power Terminals	2
Shielding	Bundle (also compatible for individual cable shielding)
HVIL	Pass-through or shunt on header
Assembly Assurance	None (screwed)
Number of Indexes	1

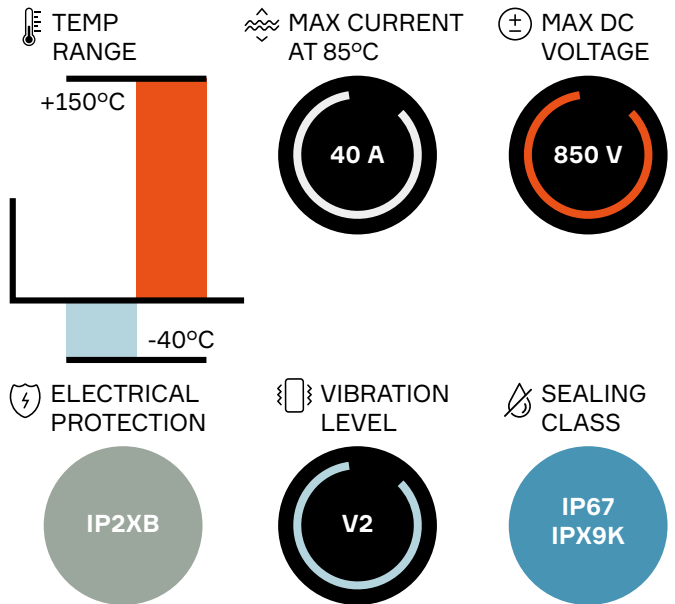


APPLICATIONS

Battery pack, DC / DC converter,
On-board charger (OBC)



TECHNICAL CHARACTERISTICS



See back page for representative part numbers and packaging dimensions.

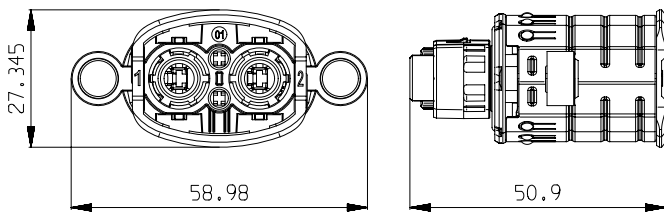


Header connector	Mating connector	BOM
Not needed (mates directly to device)	35208936	1

ASSOCIATED PARTS

Part number	Description	BOM
Mating connector		
15509074	APEX® 2.8 female terminal 2.5 mm ²	2
15516298	APEX® 2.8 female terminal 4 - 6 mm ²	
13834764	Single wire seal 3.4 - 4.4 mm	2
35206690	Cable strain relief	2
15549847	DSQ 1.5 female terminal silver-plated 0.35 - 0.5 mm ²	2
15549848	DSQ 1.5 female terminal silver-plated 0.75 - 1.0 mm ²	
15441379	DCS 1.5 red single wire seal 0.35 - 0.5 mm ²	2
15441380	DCS 1.5 grey single wire seal 0.75 - 1 mm ²	

DIMENSION MEASUREMENT SAMPLE



35208936

SHIELDPACK™

HV CLASS 2 SMU 5 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm ²)	4 - 6
Terminal Type	6.3 mm Blade Contact
# of Cavities	3 / 4 / 5
Shielding	Multicore
HVIL	Shunt
Assembly Assurance	CPA
# of Code Indexes	1



APPLICATIONS

Air Conditioning	PTC heater
On-board charger (OBC)	DC/DC

See back page for representative part numbers and packaging dimensions.

BENEFITS

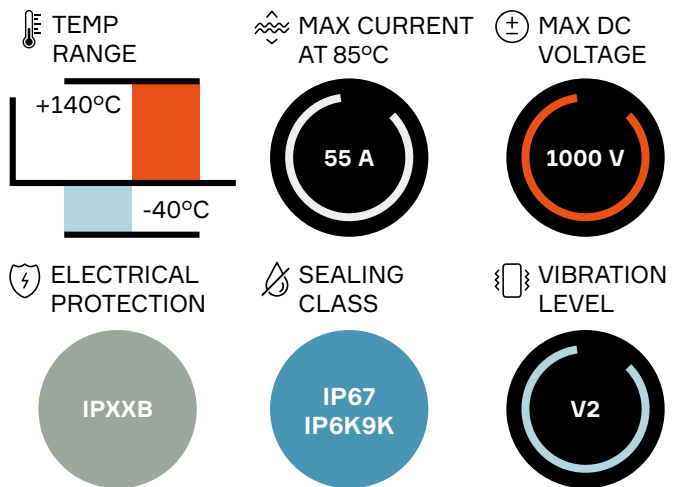
- High operating temperature
- High robustness against vibrations
- Standard AK interface
- Compatible with various multicore cables

FEATURES

- For applications with needs up to 55A
- Compliant to LV214 / LV215
- Tool-less mating & un-mating system
- Patented squeezing fixture for enhanced anti-vibration performance
- Variant header connectors offered with pin-blade, terminal or busbar for power and harness solutions for HVIL



PERFORMANCE



Index	Header Connector			Mating Connector	BOM
	Normal	Pin-Header Type	Busbar Type		
A	35235657	35153844	35425303	35200288	1

Additional codes are offered on demand. Contact an Aptiv representative for details.
Header connector can be customized for outlet and assembled HVIL harness. Contact Aptiv engineering for details.

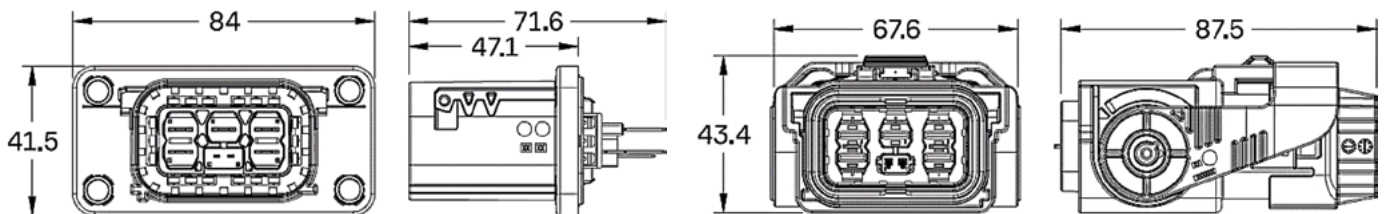
ASSOCIATED PARTS

Part number			Description	BOM
Header Connector – Normal (Crimp Terminals)				
35244766			APT 6.3 Male Terminal 4 - 6 mm ²	2
13952636			1.2 Male Terminal* 0.5 - 0.75 mm ²	2
35200302			HVIL Lock	1
35245734			TPA	1
Mating connector				
3 × 4 mm ² Cable	4 × 4 mm ² Cable	5 × 6 mm ² Cable	CTS 630 Female Terminal	3 - 5
13984302 Ag plated 13976101 Sn plated		13984307 Ag plated 13976102 Sn plated		
35196906			CTS 1.2 Terminal HVIL Shunt Harness	1
35071844	35199785	35075633	Inner Ferrule	1
35071848	35199786	35075638	Outer Ferrule	1
35071846	35199766	35199476	EMC Shield	2
35200301			Inner Housing	1
35200302			TPA	1
35196896	35199782	35073658	Cable Seal	1
35196892	35170510	35200299	Cable Strain Relief	1

Also applicable with 2 × 6 mm² / 3 × 6 mm² / 4 × 6 mm² and 5 × 4 mm² cables. Contact an Aptiv representative for details.

* Non Aptiv terminal, please consult us

DIMENSION MEASUREMENT SAMPLE



Header Connector

Mating Connector

SHIELDPACK™

HV CTS280 SI 4 WAY



BENEFITS

- No mechanical assist needed for mating
- Compact system design with integrated HVIL
- Robust error-proof assembly and system mating

FEATURES

- Tool-less unmating system
- Finger proof/touch safe
- 4 power circuits
- Panel mount to device with face seal (on wire-to-device)
- Aluminum compression bushings
- Internal HVIL (shunted in harness connector)
- ISO cable compatible



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm ²)	3 - 5 (power) 0.5 - 0.75 mm (HVIL)
Terminal Type	CTS 2.8
# of Power Terminals	4
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	2



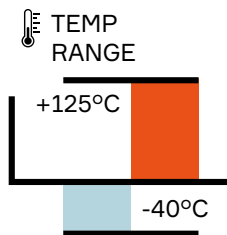
APPLICATIONS

- Battery pack
- DC / DC converter
- On-board charger (OBC)

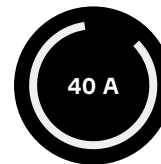
See back page for representative part numbers and packaging dimensions.



PERFORMANCE



MAX CURRENT AT 85°C



MAX DC VOLTAGE



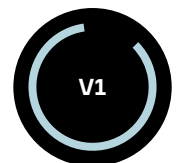
ELECTRICAL PROTECTION



SEALING CLASS



VIBRATION LEVEL



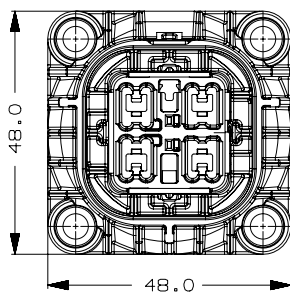
Index	Header outer	Header inner connector	Mating connector	BOM
101	35099959	35099976	33314147	1
102	35161787	35149737	33314148	

ASSOCIATED PARTS

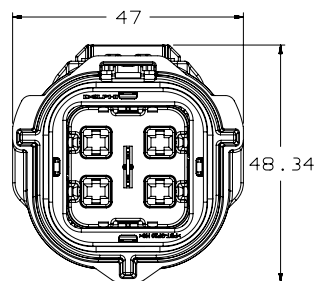
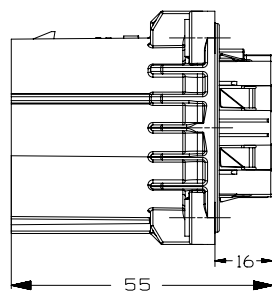
Part number	Description	BOM
Header		
13597855	MTS 0.64 HVIL female terminal 0.5 - 0.75 mm	2
13753471	CTS 2.8 male terminal 3 - 5 mm ²	4
13790534	CTS 2.8 male terminal 4 - 5 mm ²	
33314145	TPA (Terminal Position Assurance)	2
Mating Connector		
13882331	CTS 2.8 female terminal 3 - 5 mm ²	4
13737699	Inner ferrule 3 mm ² ISO cable	4
33292550	Inner ferrule 5 mm ² ISO cable	
13737702	Outer ferrule 3 mm ² ISO cable	4
33292551	Outer ferrule 5 mm ² ISO cable	
35072736	Female mat seal 3 mm ²	1
35072735	Female mat seal 5 mm ²	
35072739	Mat seal retainer 3 mm ²	1
35072738	Mat seal retainer 5 mm ²	



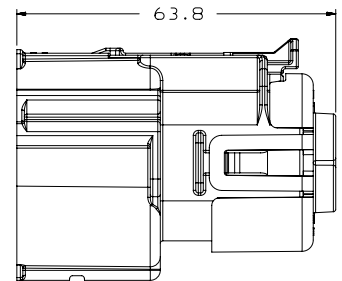
DIMENSION MEASUREMENT SAMPLE



35099959



33314147



SHIELDPACK™ HV METAL

PASS-THROUGH SI 25-50mm²

1 WAY



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



AVAILABLE CONFIGURATIONS

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



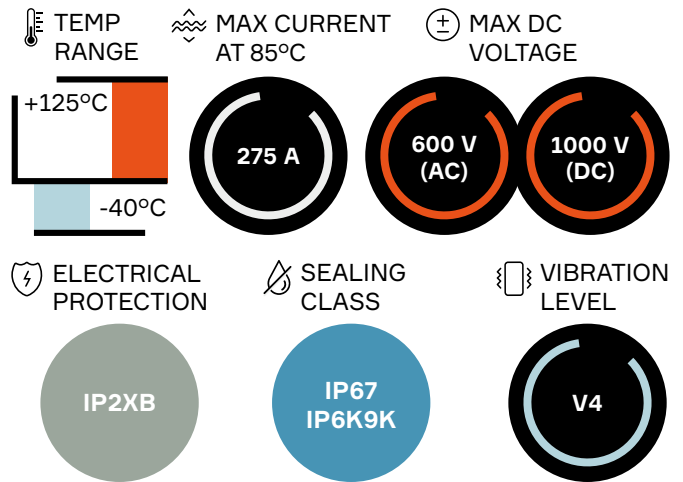
APPLICATIONS

AC / DC inverter	Power electric box
HV battery	E-motor
HV PDU	

See back page for representative part numbers and packaging dimensions.



PERFORMANCE



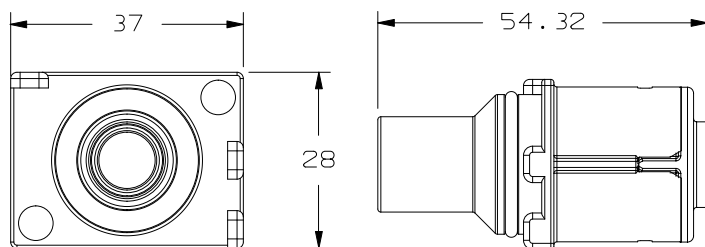
Main Housing Body Components

Index	25 mm ² wire section	35 mm ² wire section	50 mm ² 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
25 mm²		35 mm²		50 mm²	
13888023	25 mm ² seal retainer	13894241	35 mm ² seal retainer	33112613	50 mm ² seal retainer
13888030	25 mm ² seal	33288396	35 mm ² seal	33112616	50 mm ² seal
13888025	O-ring seal	13888025	O-ring seal	13888025	O-ring seal
33295901	25 mm ² ferrule	33295902	35 mm ² ferrule	33295903	50 mm ² ferrule

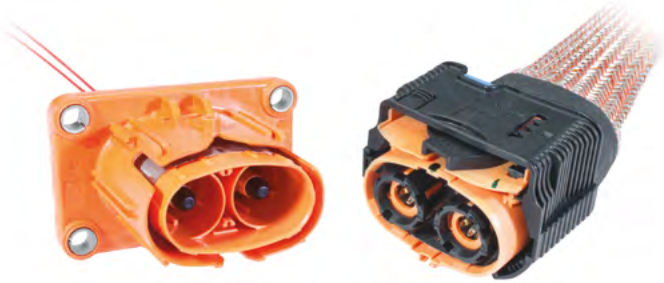
DIMENSION MEASUREMENT SAMPLE



13888001

SHIELDPACK™

HV RCS800 SB 2 WAY



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



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm²)	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



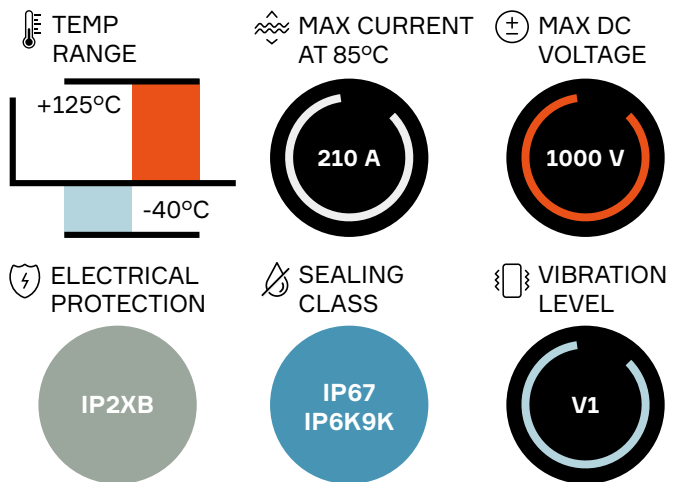
APPLICATIONS

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

See back page for representative part numbers and packaging dimensions.



PERFORMANCE

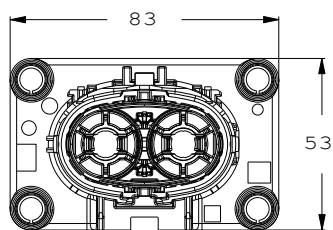


Index	Header connector	Mating connector	BOM
1	33511764	13974469	1
2	33511762	33511761	

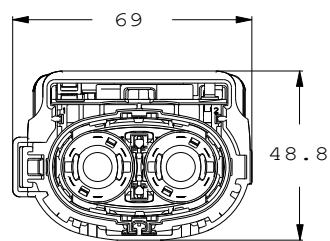
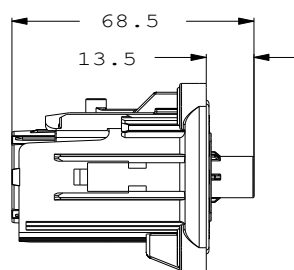
ASSOCIATED PARTS

Part number	Description	BOM
Header		
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 mm ²	2
15441379	DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm ²	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1 mm ²	
Mating Connector		
13893887	RCS 800 female terminal silver version 35 - 50 mm ²	2
13893889	RCS 800 female retainer (plug)	2
13893888	RCS 800 female 35 - 40 mm ² (plug)	2
13923559	RCS 800 female 50 mm ² (plug)	

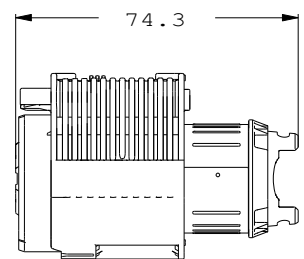
DIMENSION MEASUREMENT SAMPLE



33511764



13974469



SHIELDPACK™

HV APEX280 SI 4 WAY



BENEFITS

- High endurance against vibration
- Compliant to LV standard

FEATURES

- 280 terminal system & 0.64 HVIL
- Flammability grade UL94 V0
- Sealing: IP6K9K , IP67, IPXXB, IPXXD (mated)



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°/180°
Cable Range (mm ²)	2.5-6
Terminal Type	APEX® 2.8
# of Power Terminals	4
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	CPA/TPA
Number of Indexes	4
Header footprint 90deg (l*w*h)	54.8*50.9*54.7
Header footprint 180deg (l*w*h)	46*46*40.4



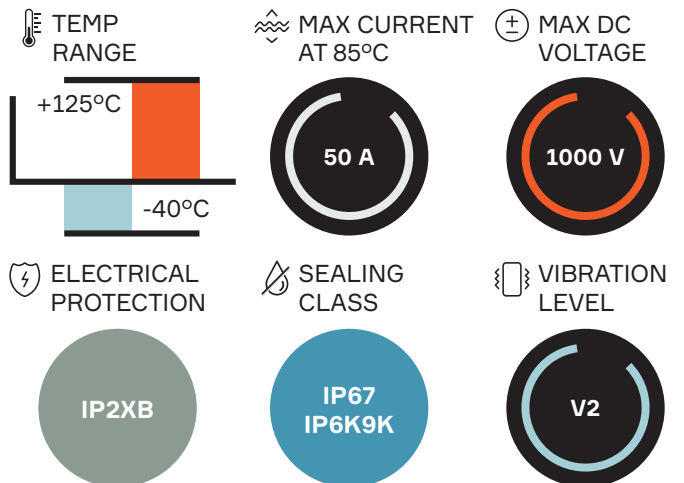
APPLICATIONS

Electric AC
HV Heater
OBC/Auxiliary Devices

See back page for representative part numbers and packaging dimensions.



PERFORMANCE



CONNECTOR PART NUMBERS

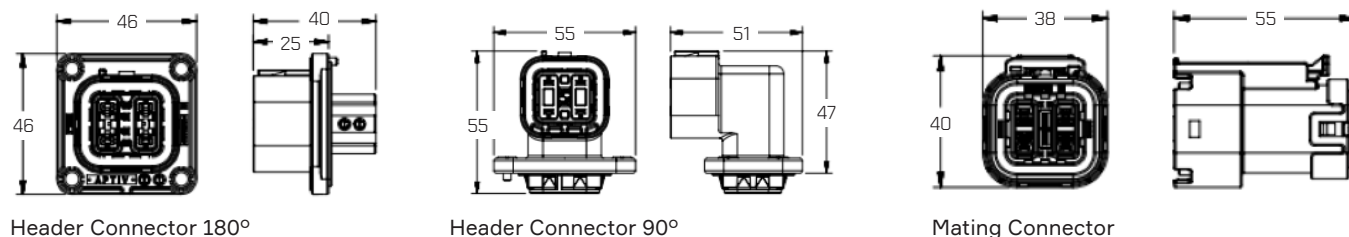
Index	Header connector 180°	Header connector inner housing 90°	Header connector 90°	Header connector inner housing 180°	Mating connector	BOM
A	35607793	35607811	35607572	35607604	35607516	1
B	35607794	35607812	35607573	35607605	35607517	1
C	35607795	35607813	35607574	35607606	35607519	1
D	35607796	35607814	35607576	35607607	35607521	1

ASSOCIATED PARTS

Part number				Description	BOM
Header 90°					
10762803				APEX® 2.8 female terminal Sn plated unsealed 1.5 - 2.5 mm ²	4
33370369				APEX® 2.8 female terminal Ag plated unsealed 4 - 6 mm ²	4
13959131				CTS 1.2 female terminal	2
Header 180°					
33400512				APEX® 2.8 male terminal 4 - 6 mm ² unsealed, Ag plating	4
13959131				CTS 1.2 female terminal	2
Mating Connector					
2.5 mm ²	4 mm ²	5 mm ²	6 mm ²		
35663483	35607547	35607548	35607549	Inner Ferrule	4
35663486	35607551	35607553	35607554	Outer Ferrule	4
35663718	35607557	35607558	35607559	Cable seal	4
35663719	35607561	35607562	35607563	Cable retainer	4
10762803				APEX® 2.8 female terminal Ag plated unsealed 1.5 - 2.5 mm ²	4
33370369				APEX® 2.8 female terminal Ag plated unsealed 4 - 6 mm ²	4



DIMENSION MEASUREMENT SAMPLE



SHIELDPACK™

HV CTS630 SI 2 WAY



HV630 Header and Mating connector



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device, wire-to-wire
Cable Exit Orientation	180°
Cable Range (mm²)	3 - 6 (power)
Terminal Type	CTS 6.3
# of Power Terminals	2
Shielding Type	Individual
HVIL	None
Assembly Assurance	TPA (wire-to-device) CPA (wire-to-wire)
Number of Indexes	3 (wire-to-device) 3 (wire-to-wire)



APPLICATIONS

- Battery pack
- DC / DC converter
- On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.

BENEFITS

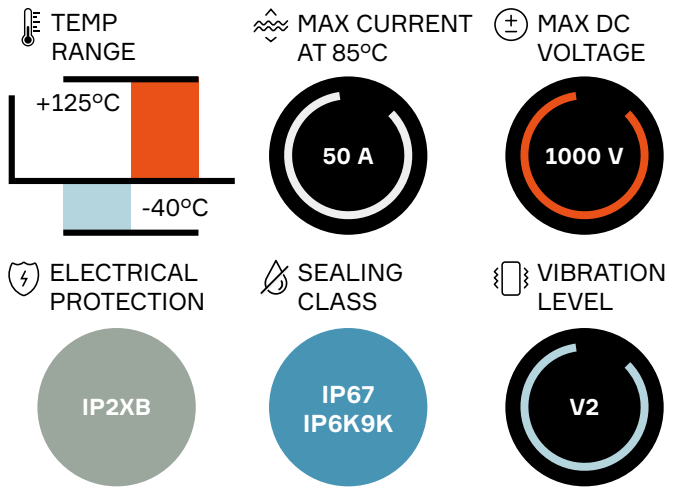
- Inner connector with TPA can be plugged into header during device assembly (on wire-to-device)
- Industry's most compact 630 2 way system
- Industry leading vibration performance
- External header housing is the same for the HV280 and HV630

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 compatible
- Secondary terminal locking



PERFORMANCE



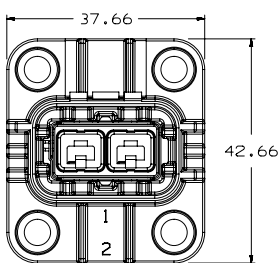
Index	Header outer	Header inner connector	Inline connector	Mating connector	BOM
101	35201196	35028833	35201706	35028839	1
102	35201197	35028834	35201707	35028840	
103	35201198	35028835	35201708	35028841	

ASSOCIATED PARTS

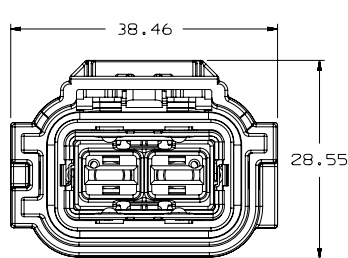
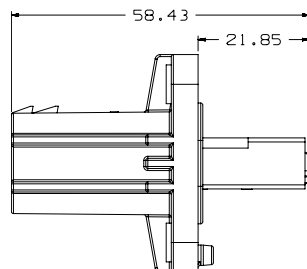
Part number	Description	BOM
Header		
33375907	4.8 Male terminal 3 - 6 mm ²	2
35028830	TPA (Terminal Position Assurance)	1
Inline connector		
35063063	4.8 male terminal	2
Mating connector		
13984307	Female CTS 6.3 terminal 3 - 6 mm ²	2
13737699	Inner ferrule 3 mm ² cable	2
13737700	Inner ferrule 4 mm ² cable	
33292550	Inner ferrule 5 mm ² & 6 mm ² cable	2
13737702	Outer ferrule 3 mm ² & 4 mm ² cable	
33292551	Outer ferrule 5 mm ² & 6 mm ² cable	
13824779	Seal retainers 3 mm ² & 4 mm ² cable	1
13888072	Seal retainers 5 mm ² & 6 mm ² cable	
15513453	Cable seal 3 mm ² cable	1
15513452	Cable seal 4 mm ² cable	
15513451	Cable seal 5 mm ² & 6 mm ² cable	



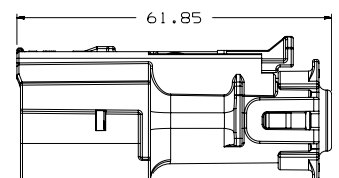
DIMENSION MEASUREMENT SAMPLE



35201196

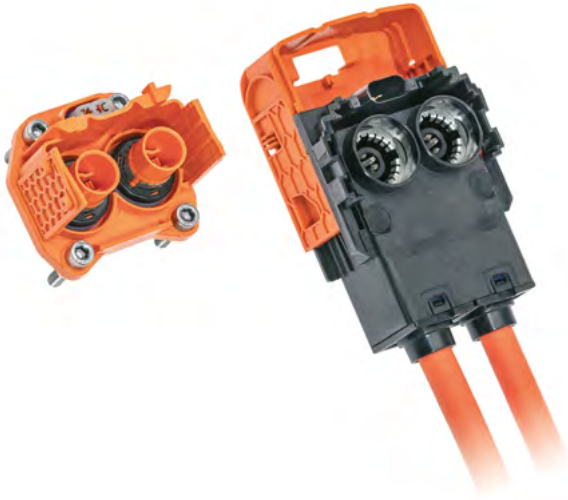


35028839



SHIELDPACK™

HV RCS890 SI 2 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm²)	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



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

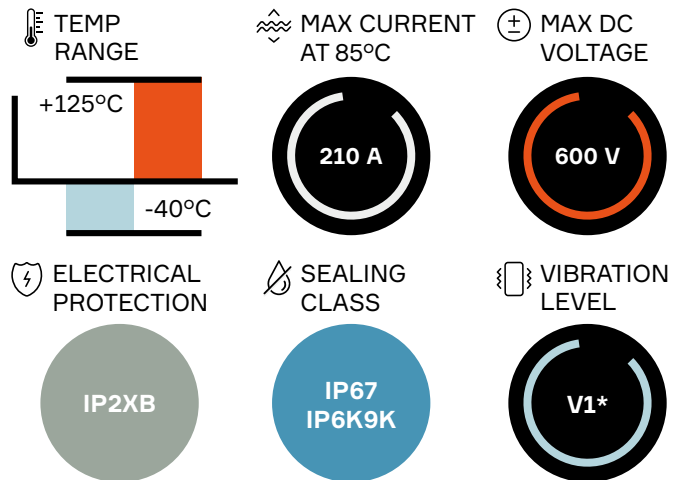
- Specifically designed for compact environments
- High-water protections resulting from sealed unmated header
- Easy assembly thanks to slider feature on female connector

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



PERFORMANCE



* For classification V2 please consult an Aptiv representative.



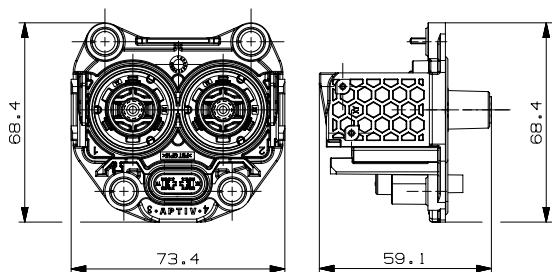
Header connector	Mating connector	BOM
35254402	35254366	1

ASSOCIATED PARTS

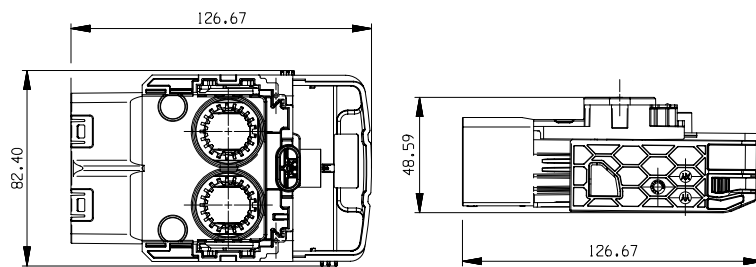
Part number	Description	BOM
Header		
15549847	DSQ 1.5 female terminal silver-plated 0.35 - 0.5 mm ²	2
15549848	DSQ 1.5 female terminal silver-plated 0.75 - 1 mm ²	
15441379	DCS/DSQ 1.5 male red single wire seal 0.22 - 0.5 mm ²	2
15441380	DCS/DSQ 1.5 male grey single wire seal 0.75 - 1 mm ²	
Mating Connector		
33502217	RCS 890 female terminal silver-plated 35 - 50 mm ²	2
35225104	RCS 890 female terminal silver-plated 70 mm ²	
35082415	Outer ferrule 35 mm ²	2
35234890	Outer ferrule 50 - 70 mm ²	
35084603	Recovery shield assembly 35 mm ²	2
35236787	Recovery shield assembly 50 - 70 mm ²	
35084610	Single wire seal & retainer 35 mm ²	2
35084586	Single wire seal & retainer 50 mm ²	
35236755	Single wire seal & retainer 70 mm ²	



DIMENSION MEASUREMENT SAMPLE



35254402



35254366

SHIELDPACK™

HV RCS1190 SI 2 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm ²)	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



APPLICATIONS

Inverter	HV PDU
E-Motor	HV-Battery

See back page for representative part numbers and packaging dimensions.

BENEFITS

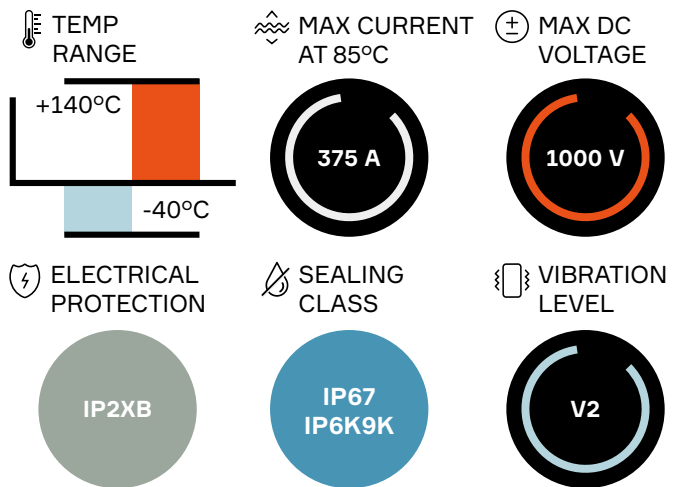
- Specifically designed for harsh environment applications
- 180° header option also available (see HV RCS 1100 Series datasheet)
- Unique and safe mating screwing thanks to innovative Screw Position Assurance
- Same device interface for both RCS 1100 and RCS 1190

FEATURES

- Up to 95 mm² cross sections
- Made for applications with needs up to 375A
- Compliant to LV214/215



PERFORMANCE

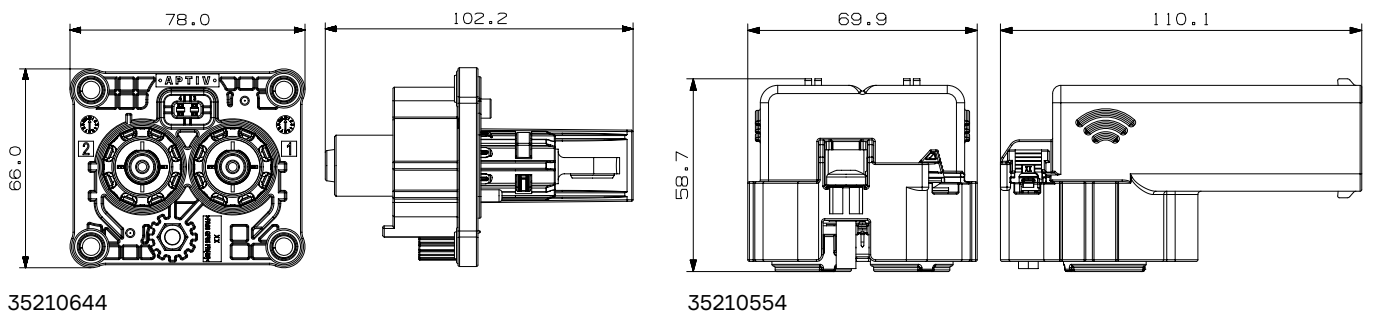


Index	Header connector	Mating connector	BOM
1	35210644	35210554	1
2	35210645	35210555	

ASSOCIATED PARTS

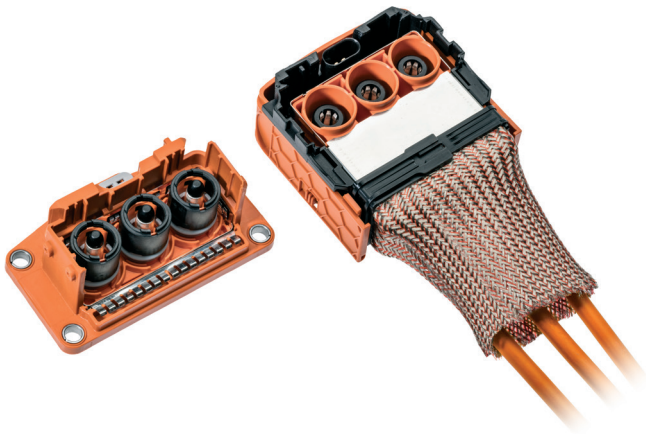
Part number	Description	BOM
Header Connector		
15414399	HVIL DSQ terminal gold-plated 0.35 - 0.5 mm ²	2
15414401	HVIL DSQ terminal gold-plated 0.75 - 1 mm ²	
Mating Connector		
35210576	RCS 1190 female terminal silver version 50 mm ²	2
35210578	RCS 1190 female terminal silver version 70/95 mm ²	
35210585	Inner ferrule 50 mm ²	2
35210586	Inner ferrule 70 mm ²	
35210587	Inner ferrule 95 mm ²	
35210591	Outer ferrule 50 mm ²	2
35210592	Outer ferrule 70 mm ²	
35210593	Outer ferrule 95 mm ²	
35210637	Cable strain relief 50 mm ²	2
35210638	Cable strain relief 70 mm ²	
35210639	Cable strain relief 95 mm ²	
35210634	Cable seal 50 mm ²	2
35210635	Cable seal 70 mm ²	
35210636	Cable seal 95 mm ²	

DIMENSION MEASUREMENT SAMPLE



SHIELDPACK™

HV RCS890 SB RV 3 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm²)	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



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

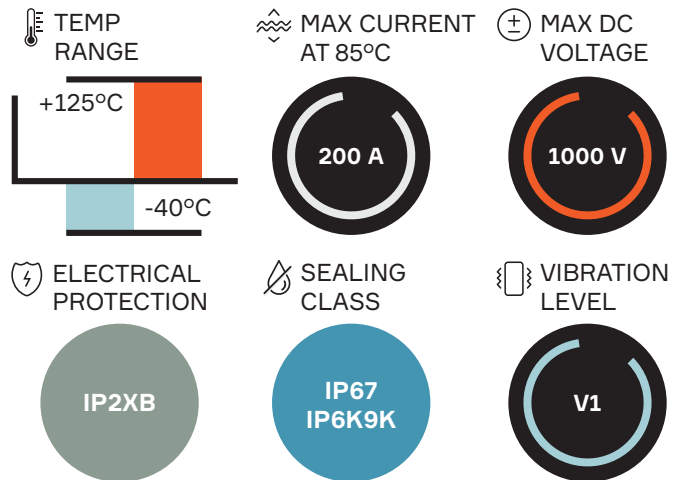
- Ultra compact design for applications with space constraints
- Panel mount to device with face seal to module
- Header is sealed in both mated and unmated position

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



PERFORMANCE

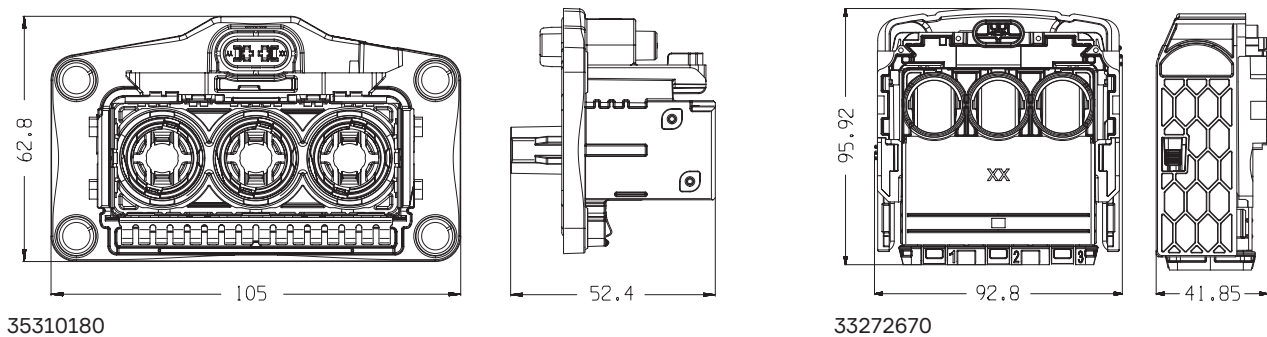


Index	Header connector	Mating connector	BOM
1	35310180	33272670	1
2	35310181	33282936	

ASSOCIATED PARTS

Part number	Description	BOM
Header		
35304635	RCS 800 male bus bar terminal silver version polarized pin	3
10811962	DCS2 1.5 female terminal gold-plated 0.5 - 1 mm ²	2
15441379	DCS/DSQ 1.5 red single wire seal 0.35 - 0.5 mm ²	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1 mm ²	
Mating Connector		
33308229	RCS 890 female terminal silver version 16 - 25 mm ²	3
33502217	RCS 890 female terminal silver version 35 - 50 mm ²	
35225104	RCS 890 female terminal silver version 70 mm ²	
33269218	RCS 890 single wire seal & retainer 16 - 25 mm ²	3
33511753	RCS 890 single wire seal & retainer 35 - 40 mm ²	
33511754	RCS 890 single wire seal & retainer 50 mm ²	
35199856	RCS 890 single wire seal & retainer 70 mm ²	
33272561	RCS 890 3-way half clamp	2

DIMENSION MEASUREMENT SAMPLE



SHIELDPACK™ HV METAL

PASS-THROUGH SI 70-95mm²

1 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Pass-through
Cable Exit Orientation	180°
Cable Range (mm ²)	70 / 95
Terminal Type	Ring Terminals
# of Cavities	1
Shielding	Individual
HVIL	None
Assembly Assurance	Screw Position Assurance
# of Code Indexes	6



APPLICATIONS

Powertrain High Voltage / Current Modules:

Power Converter / Inverter	E-motor
PDU / BDU	

See back page for representative part numbers and packaging dimensions.

BENEFITS

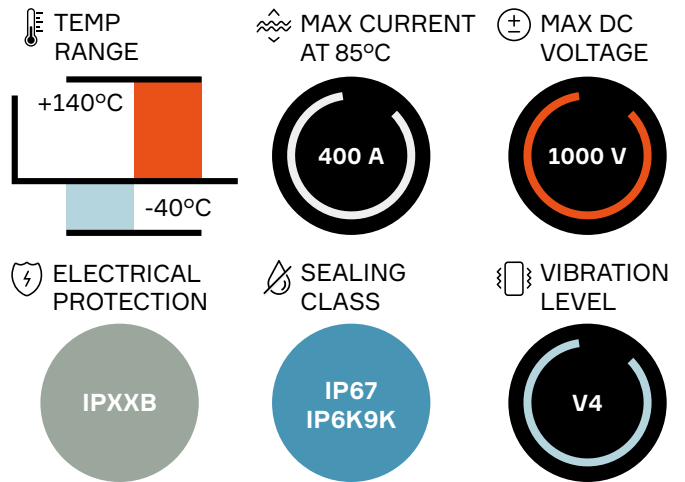
- High operating temperature
- Applicable under extreme vibration
- Robust design for harsh environments
- Very compact dimensions

FEATURES

- For applications with needs up to 400A
- Compliant to USCAR-2 / USCAR-37
- High voltage panel mount system
- Die-casting housing
- Compatible with ring terminal bolted to device



PERFORMANCE



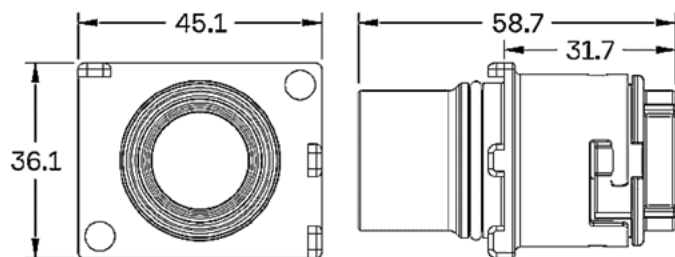
Index	Pass-through Connector		BOM
	70 mm ² Cable	95 mm ² Cable	
101	35274900	35255189	1
102	35274901	35235654	
103	35274902	35235980	
104	35274903	35235981	
108	35274904	35235982	
109	35274905	35235983	

ASSOCIATED PARTS

Part number		Description	BOM
70 mm ² Cable	95 mm ² Cable		
35516040 or equivalent	35516043 or equivalent	Ring Terminal / Tubular Lug	1
Please contact your Aptiv representative		Sonic Weld Ring Terminal	1
35274906	35235653	Ferrule	1
35235632		O-Ring Seal	1
35274909	35235651	Cable Seal	1
35274908	35235652	Lock Retainer	1

Additional validation is required when using with other terminals.
Sonic weld ring terminal is a user customized part. Please contact an Aptiv representative for more information.

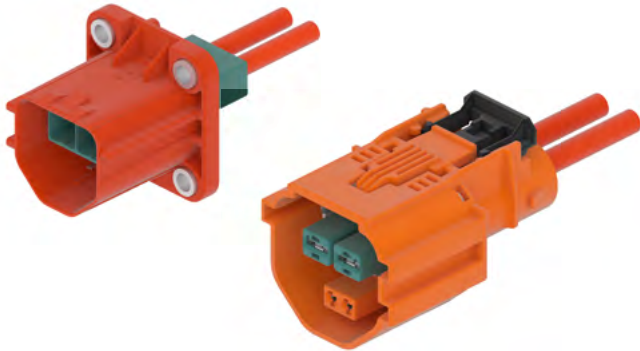
DIMENSION MEASUREMENT SAMPLE



All Connectors

SHIELDPACK™

HV630 HVIL SI 2 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm²)	3 - 6
Terminal Type	CTS 6.3
# of Power Terminals	2
Shielding Type	Single conductor shielded cable
HVIL	Pass through / Shunt on header
Assembly Assurance	CPA
Number of Indexes	1



APPLICATIONS

Battery pack
DC / DC converter
On-board charger (OBC)
Auxiliary loads

See back page for representative part numbers and packaging dimensions.

BENEFITS

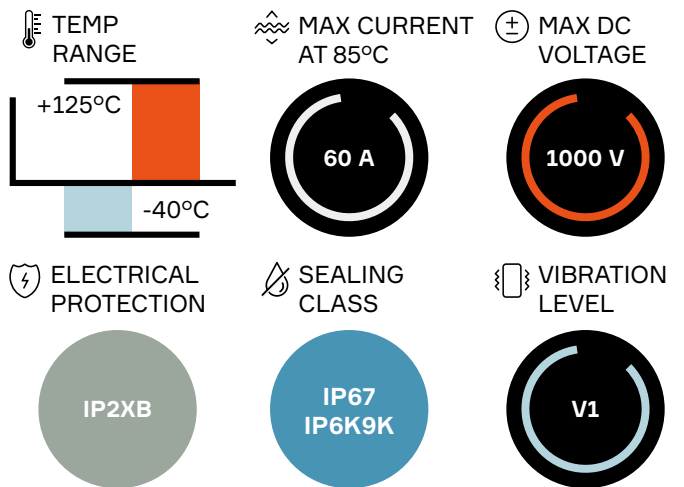
- Inner connector with TPA can be plugged into header during device assembly (on wire-to-device)
- Industry leading vibration performance

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 compatible
- Secondary terminal locking



PERFORMANCE



CONNECTOR PART NUMBERS

Code	Header connector	HVIL Type	Header inner connector	Mating connector	BOM
101	35447175	HVIL Pass Through	35327273	35578206	1
101	35372303	Shunt on Header			1

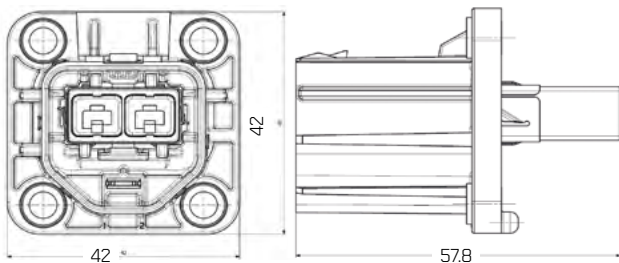
ASSOCIATED PARTS

Part number	Description	BOM
Header		
35028830	TPA (Terminal Position Assurance)	1
35446700*	4.8 Male Terminal 4 - 6 mm ²	2
15396712**	HVIL Male Terminal TTS 1.5, 0.5 - 0.75 mm ²	2
Mating connector		
13824779	Secondary Lock	1
15513451	Seal Cable 5 - 6 mm ²	1
13984307	CTS 6.3 Female Terminal 4 - 6 mm ²	2
15432210	Female HVIL 150 Terminal 0.5 - 1 mm ²	2
35371916	HVIL Cover	1
33292551	Outer Ferrule 5 - 6mm ²	2
33292550	Inner Ferrule 5 - 6mm ²	2

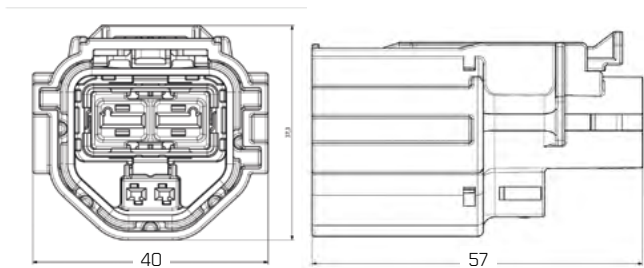
* Non Aptiv terminal, please consult us.

** Only used for HVIL Pass Through Header

DIMENSION MEASUREMENT SAMPLE



Header



Mating Connector

SHIELDPACK™ HV PLASTIC PASS-THROUGH SI 50-70mm² 2 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Pass-through
Cable Exit Orientation	180°
Cable Range (mm ²)	50 / 70
Terminal Type	Ring Terminals
# of Cavities	2
Shielding	Individual
HVIL	None
Assembly Assurance	Screw Position Assurance
# of Code Indexes	1



APPLICATIONS

Powertrain High Voltage / Current Modules:

Power Converter / Inverter	E-motor
PDU / BDU	

See back page for representative part numbers and packaging dimensions.

BENEFITS

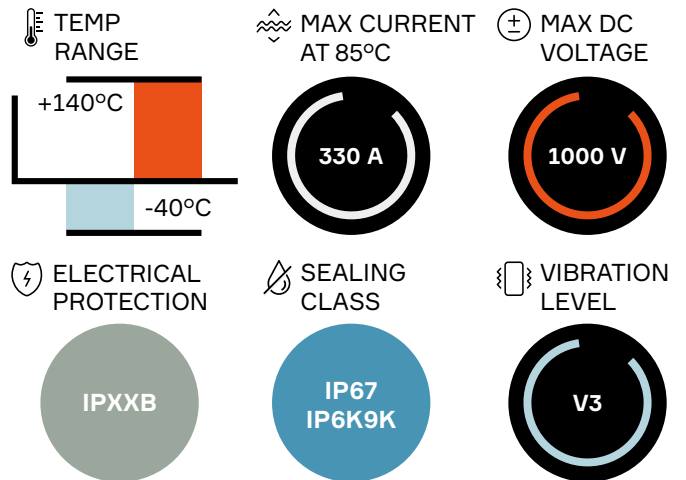
- High operating temperature
- Enhanced anti-vibration performance
- Very compact dimensions

FEATURES

- For applications with needs up to 330A
- Compliant to USCAR-2 / USCAR-37
- Plastic main housing frame with stamped shielding terminals
- Anti-rotation shielding components with extra safeguard for 70 mm² cables
- Compatible with ring terminal bolted to device



PERFORMANCE



Index	Pass-through Connector		BOM
	2 Screw Version	3 Screw Version	
A	35197716	35197715	1

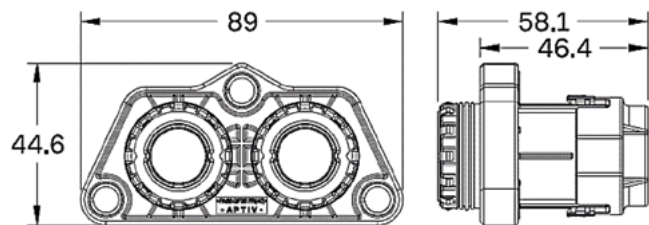
Additional codes or mirrored versions are offered on demand. Contact an Aptiv representative for details.

ASSOCIATED PARTS

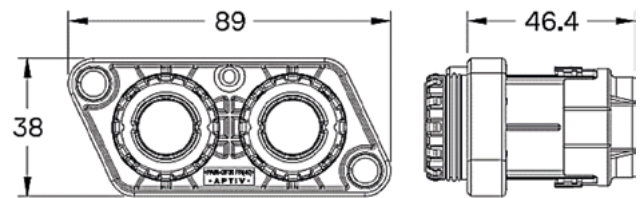
LV Cable	Part number		Description	BOM
	ISO Cable			
	35516040 or equivalent		Ring Terminal / Tubular Lug	2
	Please contact your Aptiv representative		Sonic Weld Ring Terminal	
	35197711		Shielding Terminal	2
35197311	35434228		Shielding Outer Ferrule	2
	35197273		Peripheral Seal	2
35197279	35434214		Cable Seal	2
35197706	35434216		Cable Strain Relief	2
35207823	35434229		Anti-rotation Safeguard	2

Additional validation is required when using with other terminals.
 50 mm² parts are offered on demand, and AK Pass-through products are recommended if only 50 mm² is needed.
 Sonic weld ring terminal is a user customized part. Please contact an Aptiv representative for more information.

DIMENSION MEASUREMENT SAMPLE



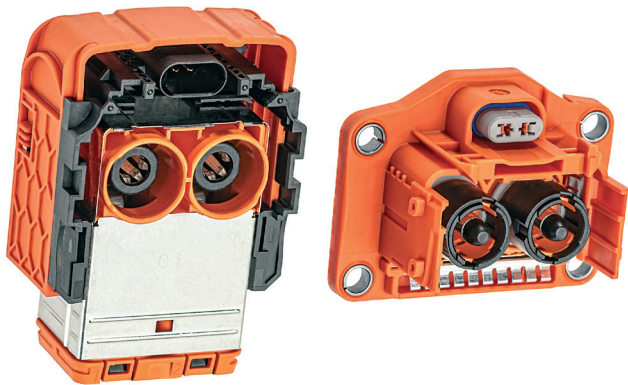
3 Screw Version



2 Screw Version

SHIELDPACK™

HV RCS890 SB RV 2 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



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm²)	16 - 70 (power) / 0.35 - 1 (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



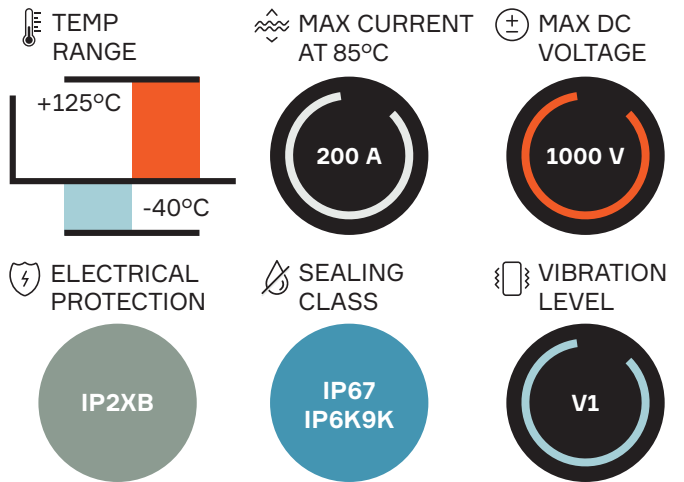
APPLICATIONS

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

See back page for representative part numbers and packaging dimensions.



PERFORMANCE



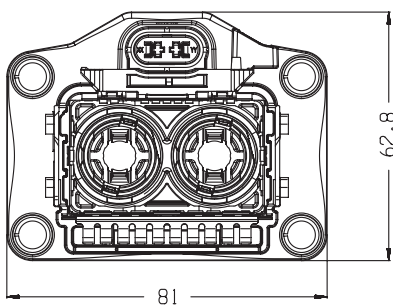
Index	Header connector	Mating connector	BOM
1	35326611	35092244	1
2	35326613	35092239	

ASSOCIATED PARTS

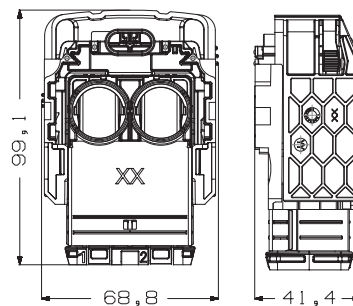
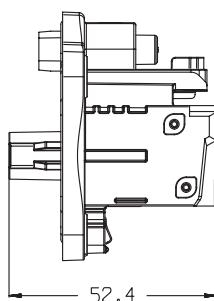
Part number	Description	BOM
Header		
10811962	DCS2 1.5 female terminal gold-plated 0.5 - 1 mm ²	2
15441379	DCS/DSQ 1.5 red single wire seal 0.35 - 0.5 mm ²	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1 mm ²	
35304635	RCS 800 male bus bar terminal silver version polarized pin	2
Mating Connector		
33308229	RCS 890 female terminal silver version 16 - 25 mm ²	2
33502217	RCS 890 female terminal silver version 35 - 50 mm ²	
35225104	RCS 890 female terminal silver version 70 mm ²	
33269218	RCS 890 single wire seal & retainer (plug) 16 - 25 mm ²	2
33511753	RCS 890 2-way female single wire seal & retainer (plug) 35 - 40 mm ²	
33511754	RCS 890 2-way female single wire seal & retainer (plug) 50 mm ²	
35199856	RCS 890 2-way female single wire seal & retainer (plug) 70 mm ²	
35091447	RCS 890 2-way half clamp	2



DIMENSION MEASUREMENT SAMPLE



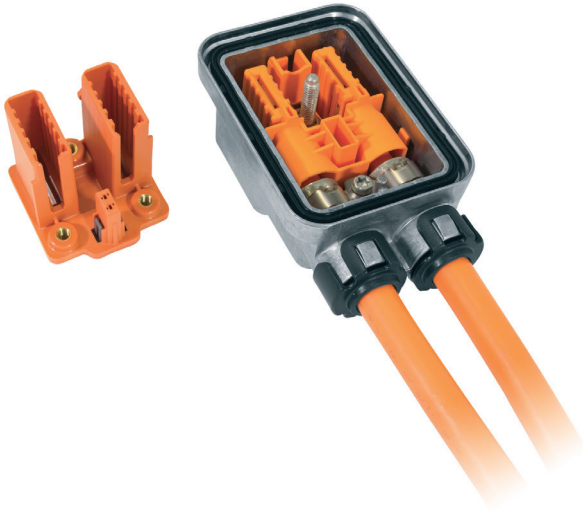
35326611



35092244

SHIELDPACK™

HV PP2000 SI 2 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm ²)	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



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

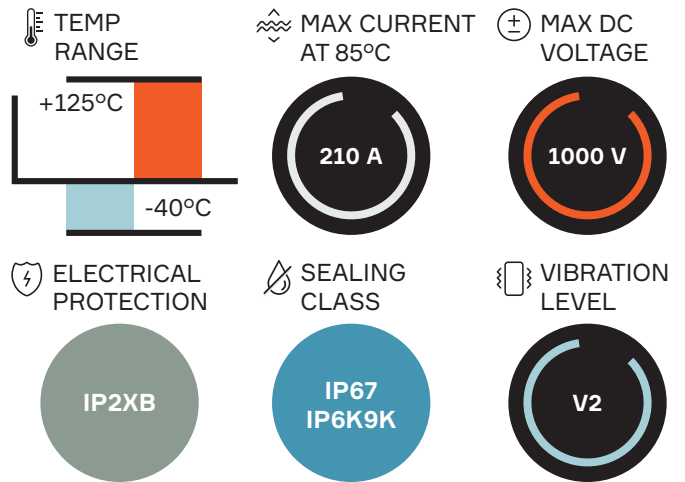
- Header interface is integrated into device case
- Cost-effective full plastic header assembled from inside out
- Bolt driven mate assist
- Ultrasonic welding used for power terminal

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



PERFORMANCE

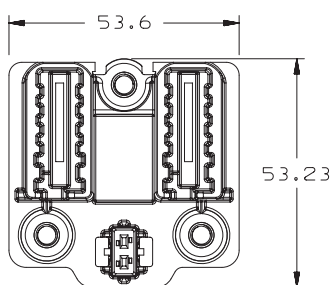


Header connector	Mating connector	BOM
33346375	33352038	1

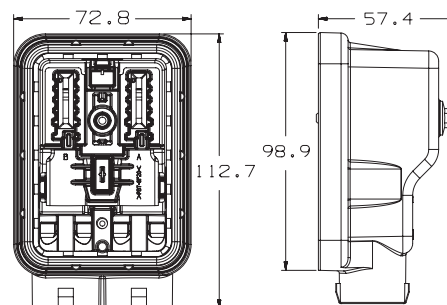
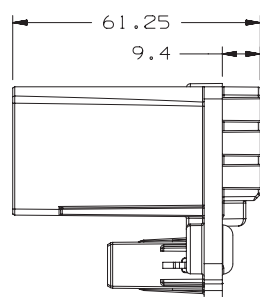
ASSOCIATED PARTS

Part number	Description	BOM
Header		
15432237	CTS female terminal silver-plated HVIL 0.35 mm ²	2
33346376	HVIL TPA	1
Mating Connector		
13801592	Power Pack 2000 female sonic weld terminal	2
33352058	Inner ferrule 35 mm ²	2
33352059	Inner ferrule 50 mm ²	2
33352056	Outer ferrule 35 mm ² & 50 mm ²	2
33352048	Cable seal 35 mm ²	2
33352049	Cable seal 50 mm ²	2
33352051	Strain relief 35 mm ²	2
33352052	Strain relief 50 mm ²	2
33352055	TPA	1
13849267	Fastener M5	1

DIMENSION MEASUREMENT SAMPLE



33346375



33352038

SHIELDPACK™ HV RCS890 SB



ShieldPack™ HV RCS890 SB
2W 90° with HVIL

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



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm ²)	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



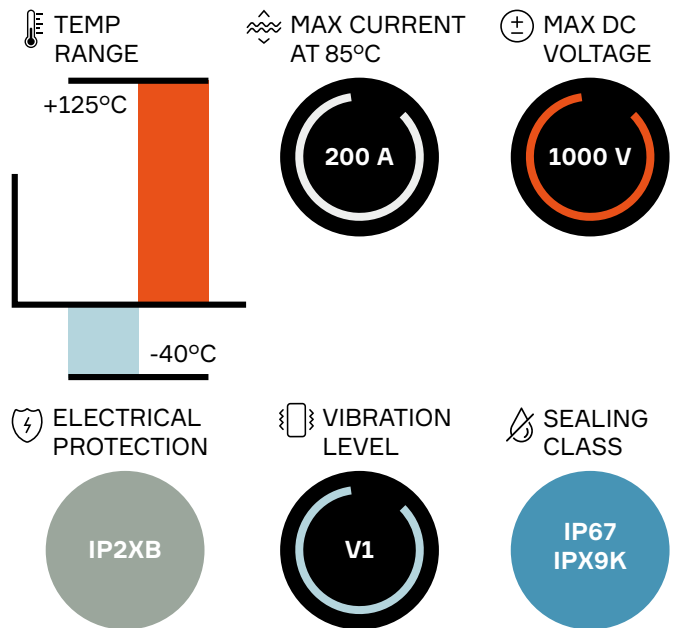
APPLICATIONS

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

See back page for representative part numbers and packaging dimensions.



TECHNICAL CHARACTERISTICS

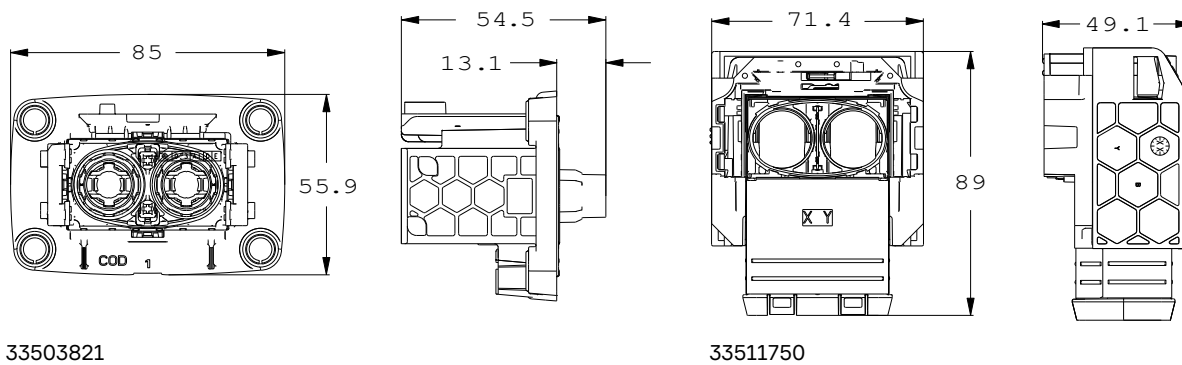


Header connector	Mating connector	BOM
33503821	33511750	1

ASSOCIATED PARTS

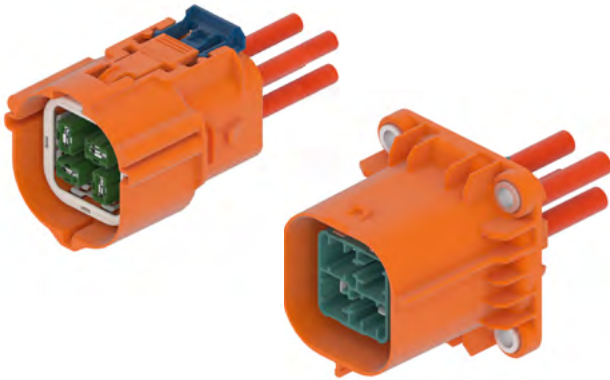
Part number	Description	BOM
Header		
33512193	RCS 800/890 male pin terminal silver version standard length	2
33511746	RCS 800/890 male pin terminal silver version V1 length	
33511747	RCS 800/890 male pin terminal silver version V2 length	
10811962	DCS2 1.5 female terminal gold-plated 0.5 - 1.0 mm ²	2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

DIMENSION MEASUREMENT SAMPLE



SHIELDPACK™

HV CTS630 SI 4 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm²)	5
Terminal Type	CTS 6.3
# of Power Terminals	4
Shielding Type	Single conductor shielded cable
HVIL	None
Assembly Assurance	CPA
Number of Indexes	1



APPLICATIONS

Battery pack
DC / DC converter
On-board charger (OBC)
Auxiliary loads

See back page for representative part numbers and packaging dimensions.

BENEFITS

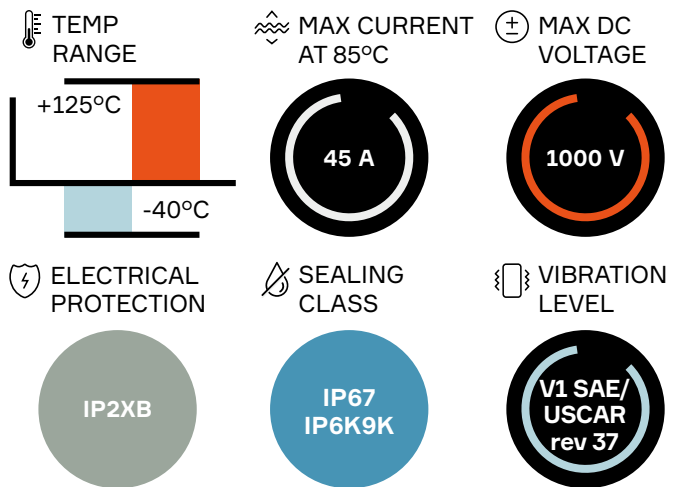
- Inner connector with TPA can be plugged into header during device assembly (on wire-to-device)
- Industry leading vibration performance
- External header housing is the same for the HV280 and HV630

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 compatible
- Secondary terminal locking



PERFORMANCE

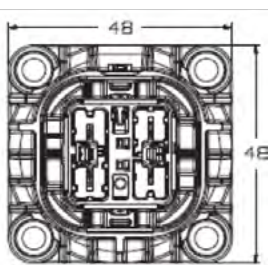


Index	Header outer	Header inner connector	Mating connector	BOM
101	33300632	35448103	35448131	1

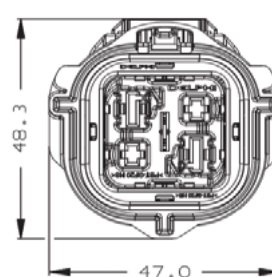
ASSOCIATED PARTS

Part number	Description	BOM
Header		
35448129	TPA	1
35446700	CTS 6.3 Male Terminal 5 mm ²	4
Mating connector		
13984307	CTS 6.3 Female Terminal 5 mm ²	4
33292550	Inner Ferrule 5 mm ² ISO cable	4
33292551	Outer Ferrule 5 mm ² ISO cable	4
35072735	Female mat seal 5 mm ²	1
35072738	Mat Seal Retainer 5 mm ²	1

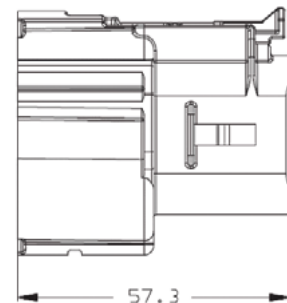
DIMENSION MEASUREMENT SAMPLE



Header



Mating Connector



57.3

SHIELDPACK™

HV RCS800 SI DM 2 WAY



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm ²)	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



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

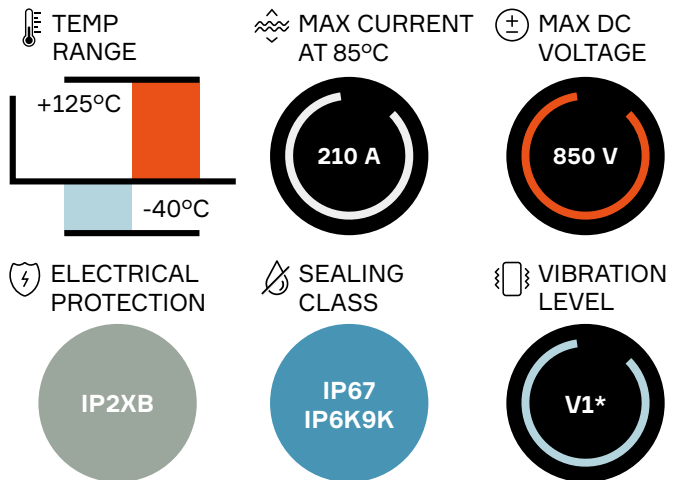
- Cost effective solution with unshielded terminal holder within device replacing traditional shielded headers
- Unique and safe mating screwing with innovative Screw Position Assurance (SPA)
- Header is sealed in both mated and unmated position

FEATURES

- Robust bolt driven mate assist
- Fingersafe via plastic tips on male pins
- Cable range: ~ 50 mm² and smaller



PERFORMANCE



* 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.

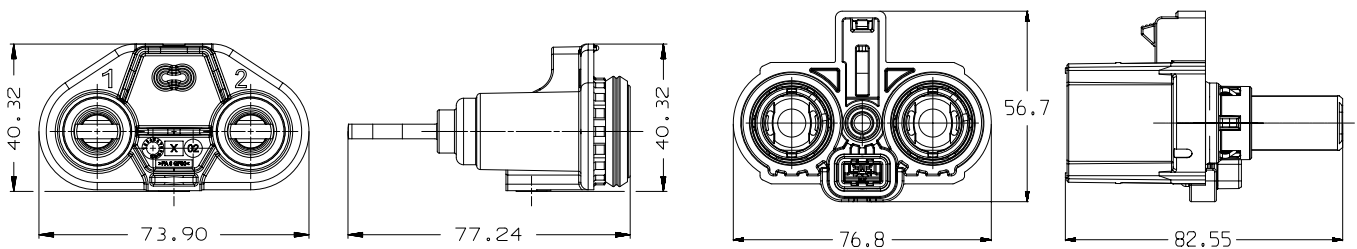
** Please contact your local Aptiv representative for serial production information.

ASSOCIATED PARTS

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



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm ²)	35 - 50 (power) / 0.35 - 1 (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



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

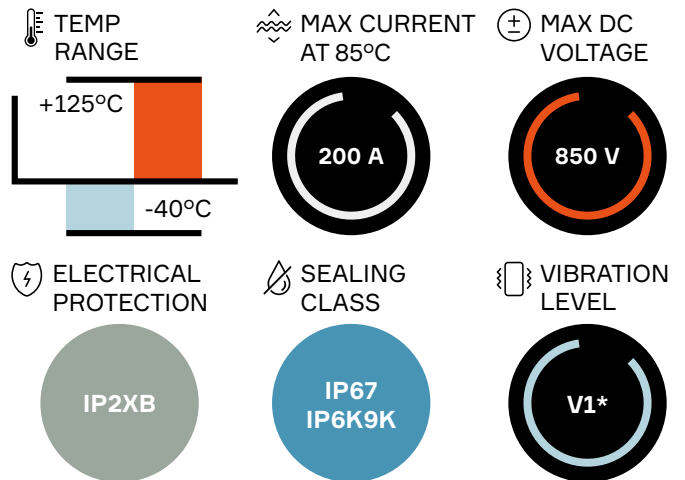
- Cost effective solution with unshielded terminal holder within device replacing traditional shielded headers
- Unique and safe mating screwing with innovative Screw Position Assurance (SPA)
- Header is sealed in both mated and unmated position

FEATURES

- Robust bolt driven mate assist
- Fingersafe via plastic tips on male pins
- Cable range: ~ 50 mm² and smaller



PERFORMANCE



* For classification V2 please consult an Aptiv representative.

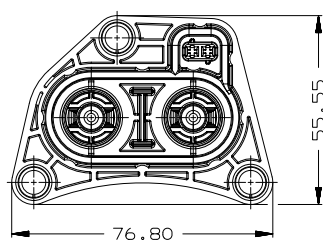


Header	Mating connector	BOM
35084594	35084575	1

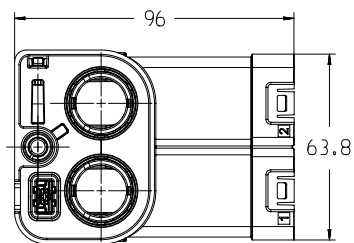
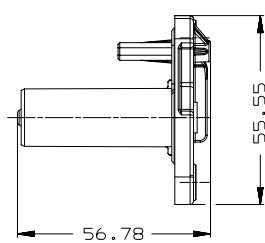
ASSOCIATED PARTS

Part number	Description	BOM
Header		
15549847	DSQ 1.5 female terminal silver-plated 0.35 - 0.5 mm ²	2
15549848	DSQ 1.5 female terminal silver-plated 0.75 - 1 mm ²	
15441379	DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm ²	2
15441380	DCS/DSQ 1.5 grey single wire seal 0.75 - 1 mm ²	
Mating connector		
33502217	RCS 890 female terminal silver-plated 35 - 50 mm ²	2
35082415	Outer ferrule 35 mm ²	2
35234890	Outer ferrule 50 mm ²	
35084603	Recovery shield assembly 35 mm ²	2
35236787	Recovery shield assembly 50 mm ²	
35084610	Single wire seal & retainer 35 mm ²	2
35084586	Single wire seal & retainer 50 mm ²	

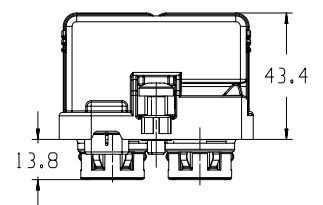
DIMENSION MEASUREMENT SAMPLE



35084594

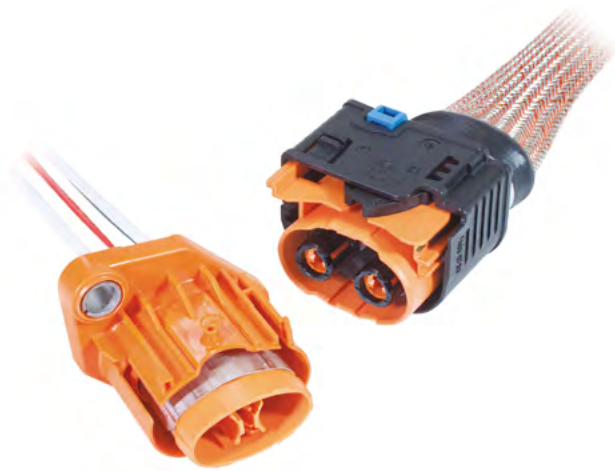


35084575



SHIELDPACK™

HV APEX280 SB 2 WAY



BENEFITS

- Two-stage disconnect for safe unmating
- Compact package with unique integrated electric interlock
- Header is sealed in both mated and unmated position

FEATURES

- Bundle shielding with external braid
- HVIL shunted in harness connector



AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	180°
Cable Range (mm ²)	2.5 - 6 (power) / 0.5 - 0.75 (HVIL)
Terminal Type	APEX® 2.8
# of Power Terminals	2
Shielding	Bundle
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	2



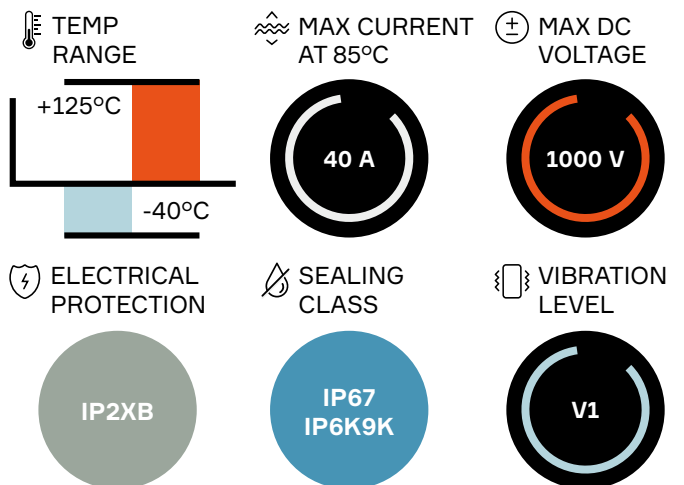
APPLICATIONS

Battery pack
DC / DC converter
On-board charger (OBC)

See back page for representative part numbers and packaging dimensions.



PERFORMANCE

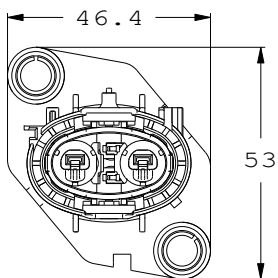


Index	Header connector	Mating connector	BOM
101	33511766	33517428	1
102	33511767	33511765	

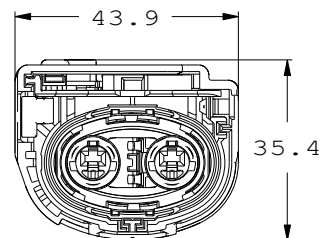
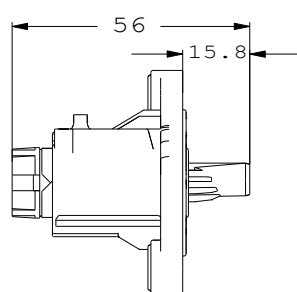
ASSOCIATED PARTS

Part number	Description	BOM
Header		
15509074	APEX® 2.8 male terminal 2.5 mm ²	2
15516298	APEX® 2.8 male terminal 4 - 6 mm ²	
33511802	DCS2 1.5 male terminal gold-plated 0.22 - 0.35 mm ²	2
10779703	DCS2 1.5 male terminal gold-plated 0.5 - 1 mm ²	
Mating connector		
13627267	APEX® 2.8 female terminal 2.5 mm ²	2
10810733	APEX® 2.8 female terminal 4 - 6 mm ²	
Seals		
33512180	Header and mating: APEX® 2.8 female & male single wire seal 2.5 mm ²	2
33512175	Header and mating: APEX® 2.8 female & male single wire seal red 4 mm ²	
35289308	Header and mating: APEX® 2.8 female & male single wire seal 6 mm ²	
15441379	Header: DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm ²	2
15441380	Header: DCS/DSQ 1.5 grey single wire seal 0.75 - 1 mm ²	

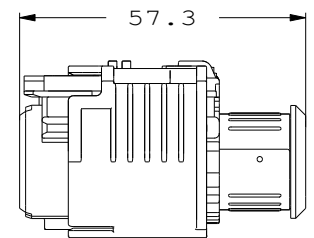
DIMENSION MEASUREMENT SAMPLE



33511766



33517428



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