



HC Signal Connector

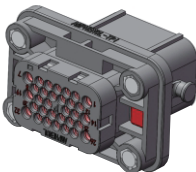
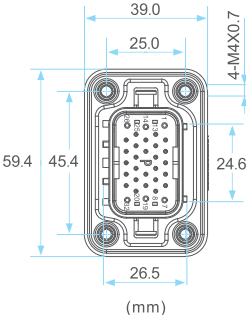
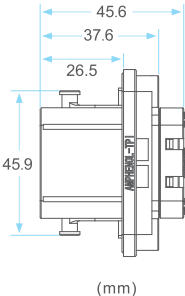

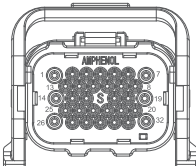
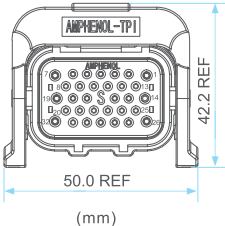
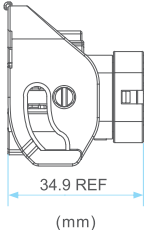
HC Series Connectors

Amphenol HC Signal Series connectors are designed as a high performance, cost effective solution for the signal and power transmission for PDU in battery pack. The connector has integrated both signal and power transmission in one body.

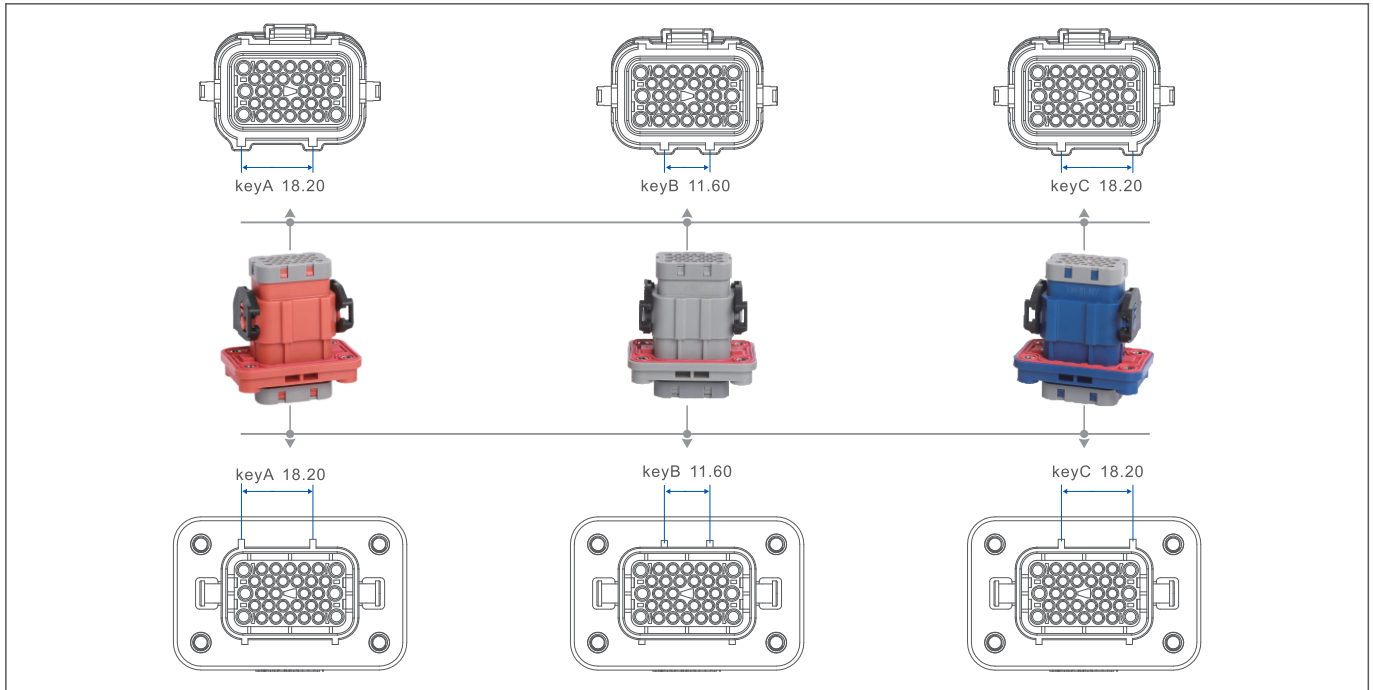
Key Features	Technical Data	Typical Applications
<ul style="list-style-type: none"> Colored Body and Enhanced Rib for Blind Mating Up to IP68 Protection(mated) Scalable Pin Count Per Specific Requirement⁽¹⁾ Available with Key A, B and C Option Available with CPA Option 	<ul style="list-style-type: none"> Pin Count: 32pin Current Rating: Power: 13A MAX Signal: 5A MAX Cable Size: Power: 16~18 AWG Signal: 20~22AWG Dielectric Withstanding Voltage: 3000VDC Operating Temperature: -40°C - +125°C IP Rating: IP6K9K、IP68(mated, subersion in 1M depth water with 48 hours.) Mating Cycle: 100Min Air leakage: 60KPa Fire Classification: UL94V0 	<ul style="list-style-type: none"> Signal and Power Transmission for PDU

(1) Offer pin plug for unused pin seal

Dimensions

<h3>32POS Connector Receptacle</h3>   			
<h3>32POS Connector Plug</h3>    			

HC Signal Key Map



Ordering Information

Product Type		Connector Type		Polarization	Series	Installation Type	
HC	HC Signal	08	Receptacle Connector	A B C	P32	32POS	R Rear mounted

Terminal & Cable & Seal Plug Options

Receptacle	Terminal Type	Terminal Part Number	Plating Type	Wire gauge	Wire OD range	Seal Type	Seal Part Number
HC08A-P32R	16#(power)	HCTM16161	Gold Plating	16-18 AWG	2.24-3.00mm	16#(power)	AC-CP000383
HC08B-P32R		HCTM16164	Tin Plating				
HC08C-P32R	20#(signal)	HCTM20101	Gold Plating	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP000382
		HCTM20104	Tin Plating				

				HC	18	B	-	S32	-	2		
Product Type		Connector Type		Polarization		Series		CPA				
HC	HC Signal	18	Plug Connector	A	S32	32POS	Blank	Without CPA				
				B			2	With CPA				
				C								

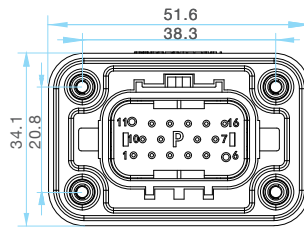
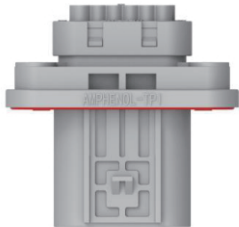
Terminal & Cable & Seal Plug Options

Plug	Terminal Type	Terminal Part Number	Plating Type	Wire gauge	Wire OD range	Seal Type	Seal Part Number	End-Bell Part Number
HC18A-S32 HC18A-S32-2	16#(power)	HCTF16161	Gold Plating	16-18 AWG	2.24-3.00mm	16#(power)	AC-CP000383	AC-CP002198(Straight)
HC18B-S32 HC18B-S32-2		HCTF16164	Tin Plating					
HC18C-S32 HC18C-S32-2	20#(signal)	HCTF20101	Gold Plating	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP000382	AC-CP002199(Angled)
		HCTF20104	Tin Plating					

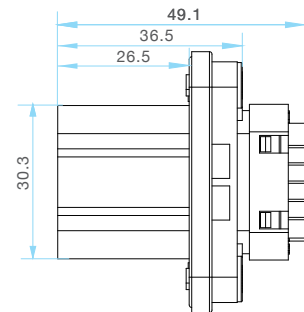
Note: Tin and gold plated terminals cannot match each other

Dimensions

16POS Connector Receptacle

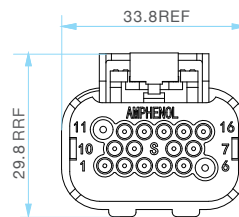


(mm)

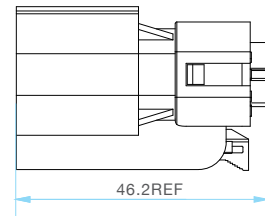


(mm)

16POS Connector

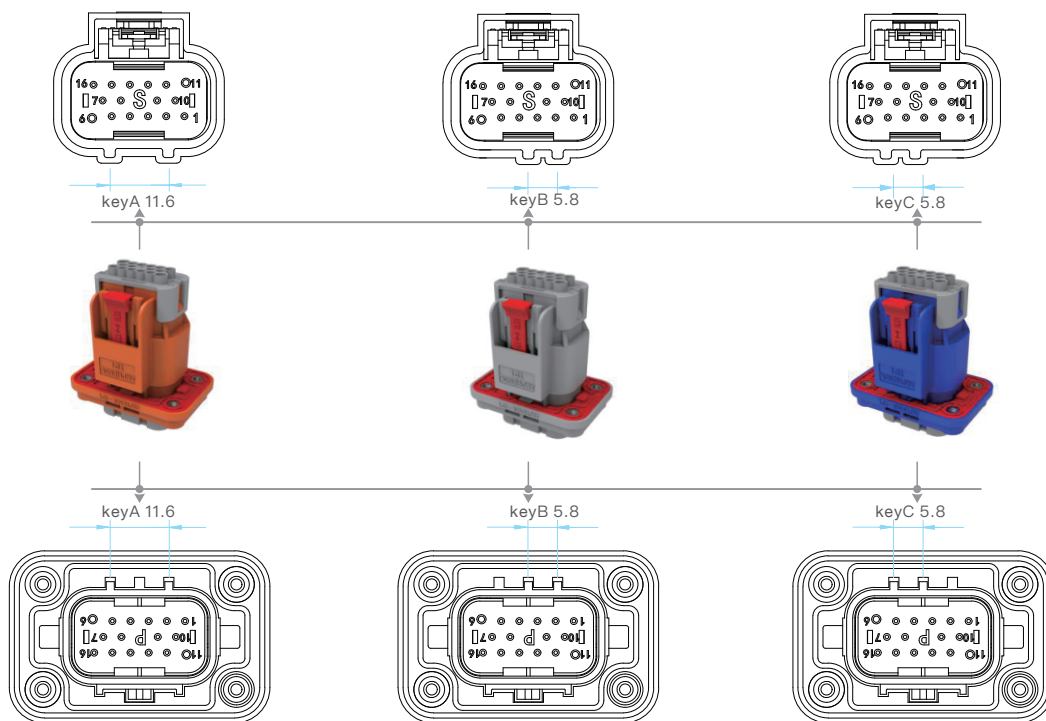


(mm)



(mm)

HC Signal Key Map



Ordering Information

		HC	08	B	-	P16	-	R		
Product Type		Connector Type		Polarization		Series		Installation Type		
HC	HC Signal	08	Receptacle Connector	A	P16	16POS	R	Rear mounted		
				B						
				C						
				Rear mounted						

Terminal & Cable & Seal Plug Options

Receptacle	Terminal Type	Terminal Part Number	Plating Type	Wire gauge	Wire OD range	Seal Type	Seal Part Number
HC08A-P16R	16#(power)	HCTM16161	Gold Plating	16-18 AWG	2.24-3.00mm	16#(power)	AC-CP002012
HC08B-P16R	20#(signal)	HCTM16164	Tin Plating	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP002011
HC08C-P16R		HCTM20101	Gold Plating				
		HCTM20104	Tin Plating				

		HC	18	B - S16			
Product Type		Connector Type		Polarization			
HC	HC Signal	18	Plug Connector	A	S16	16POS	
				B			
				C			

Terminal & Cable & Seal Plug Options

Receptacle	Terminal Type	Terminal Part Number	Plating Type	Wire gauge	Wire OD range	Seal Type	Seal Part Number
HC-18A-S16	16#(power)	HCTF16161	Gold Plating	16-18 AWG	2.24-3.00mm	16#(power)	AC-CP002012
HC-18B-S16	20#(signal)	HCTF16164	Tin Plating	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP002011
HC-18C-S16		HCTF20101	Gold Plating				
		HCTF20104	Tin Plating				

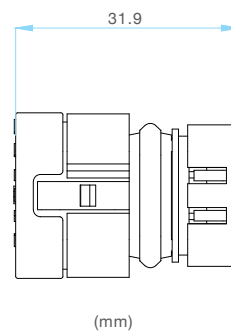
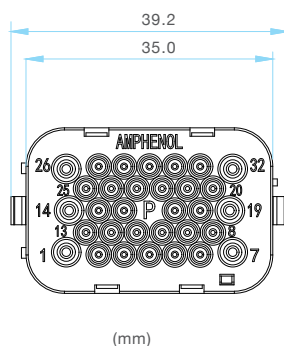
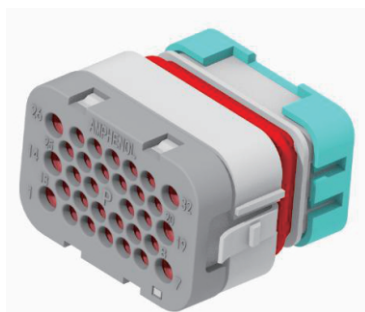
Note: Tin and gold plated terminals cannot match each other

Key Features	Technical Data	Typical Applications
<ul style="list-style-type: none">Colored Body and Enhanced Rib for Blind MatingUp to IP68 Protection(mated)Scalable Pin Count Per Specific Requirement⁽¹⁾Available with CPA OptionReceptacle Housing External InstallationCore can be Removed to Facilitate Disassembly	<ul style="list-style-type: none">Pin Count: 32pinCurrent Rating: Power: 13A MAX Signal: 5A MAXCable Size: Power: 16~18 AWG Signal: 20~22AWGDielectric Withstanding Voltage: 3000VDCOperating Temperature: -40°C - +125°CIP Rating: IP6K9K、IP68(mated, subersion in 1M depth water with 48 hours.)Mating Cycle: 100MinAir leakage: 60KPaFire Classification: UL94V0	<ul style="list-style-type: none">Signal and Power Transmission for PDU

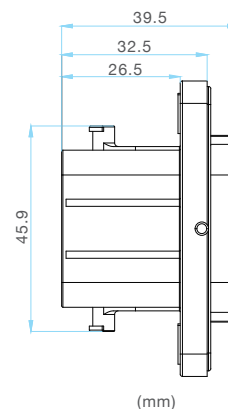
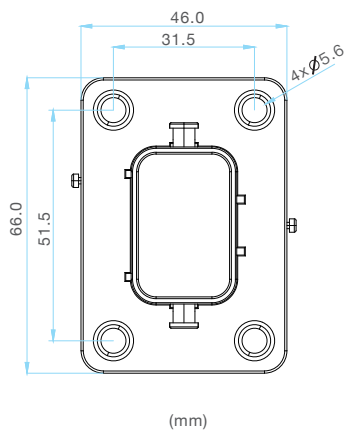
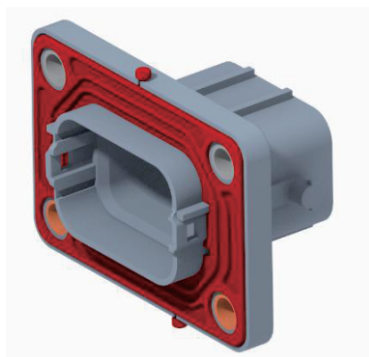
(1) Offer pin plug for unused pin seal

► Dimensions

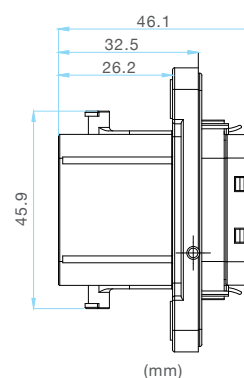
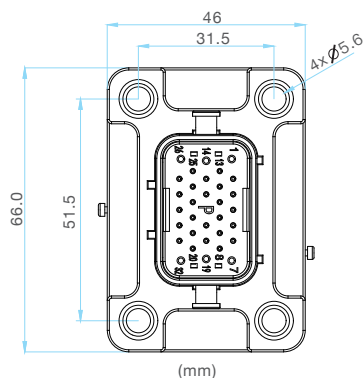
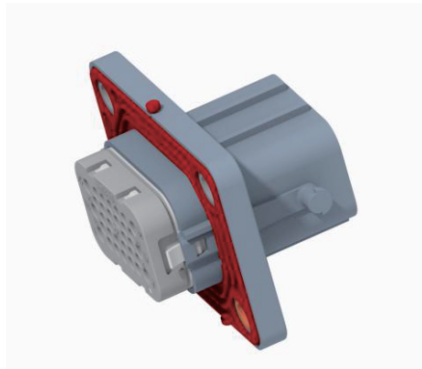
32POS Connector Core



32POS Connector Shell



32POS Connector Receptacle (Three-stage Form)



Ordering Information-Core and Shell for Receptacle

Product Type		Connector Type		Polarization	Series		Component Type	
HC	HC Signal	08	Receptacle Connector	B	P32	32POS	C	Rec.Core

Product Type		Connector Type		Polarization	Series		Component Type	
HC	HC Signal	08	Receptacle Connector	B	P32	32POS	F	Rec.Shell

Terminal & Cable & Seal Plug Options

Receptacle	Terminal Type	Terminal Part Number	Plating Type	Wire gauge	Wire OD range	Seal Type	Seal Part Number
HC08B-P32C HC08B-P32F	16#(power)	HCTM16161	Gold Plating	16-18 AWG	2.24-3.00mm	16#(power)	AC-CP000383
		HCTM16164	Tin Plating				
	20#(signal)	HCTM20101	Gold Plating	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP000382
		HCTM20104	Tin Plating				

Note: (1) Tin and gold plated terminals cannot match each other
(2) Core and shell need to be used together

The information contained in this data sheet is for reference only

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