

# HC Signal Connector

# HC Series Connectors

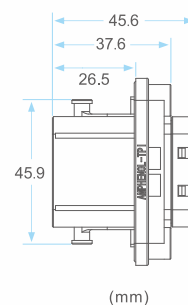
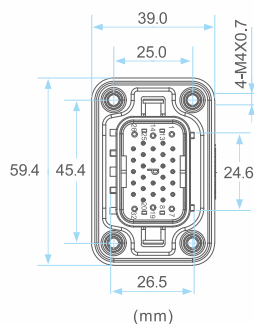
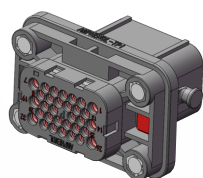
Amphenol HC Series connectors are designed as a high-performance, cost-effective solution for the signal and power transmission for PDU in battery pack. The connector has integrated both signal and power transmission in one body.

Key Features	Technical Data	Typical Applications
<ul style="list-style-type: none"> <li>Colored Body and Enhanced Rib for Blind Mating</li> <li>Up to IP68 Protection(mated)</li> <li>Scalable Pin Count Per Specific Requirement<sup>(1)</sup></li> <li>Available with Key A, B and C Option</li> <li>Available with CPA Option</li> </ul>	<ul style="list-style-type: none"> <li>Pin Count: 32pin</li> <li>Current Rating: Power: 13A MAX Signal: 5A MAX</li> <li>Cable Size: Power: 14~18 AWG Signal: 20~22AWG</li> <li>Dielectric Withstanding Voltage: 3000VDC</li> <li>Operating Temperature: -40°C - +125°C</li> <li>Protection Class: IP68(mated)</li> <li>Mating Cycle: 100Min</li> <li>Air leakage: 60KPa</li> <li>Fire Classification: UL94-V0</li> </ul>	<ul style="list-style-type: none"> <li>Signal and Power Transmission for PDU</li> </ul>

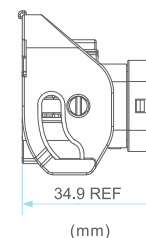
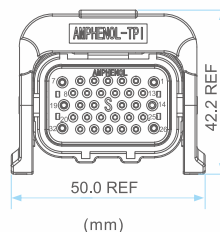
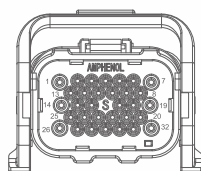
(1) Offer pin plug for unused pin seal

## ►► Dimensions

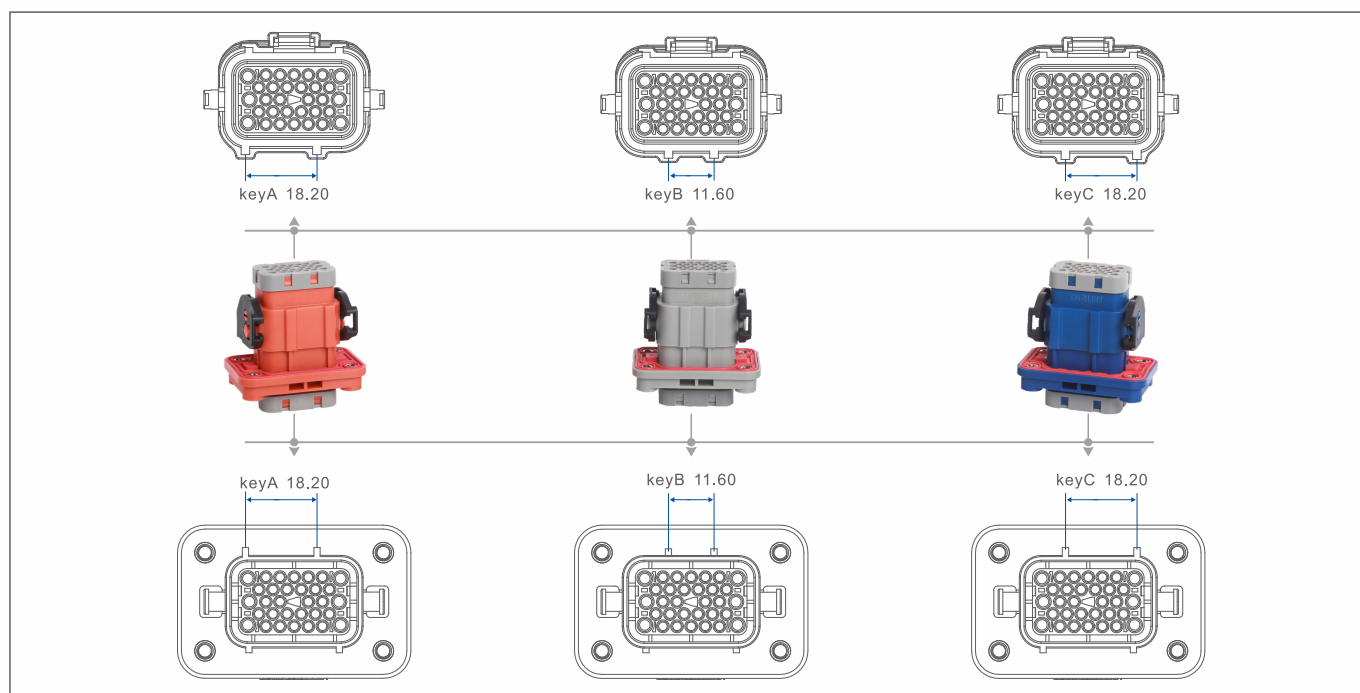
### 32POS Connector Receptacle



### 32POS Connector Plug



## HC Signal Key Map



## Ordering Information

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

### Terminal & Cable & Seal Plug Options

Receptacle	Terminal Type	Terminal Part Number	Wire gauge	Wire OD range	Seal Type	Seal Part Number
HC08A-P32-R HC08B-P32-R HC08C-P32-R	16#(power)	HCTM214XX <sup>(1)</sup>	14 AWG	2.24-3.00mm	16#(power)	AC-CP000383
		HCTM215XX	16-18 AWG			
		HCTM216XX	16-18 AWG			
HC08A-P32-R HC08B-P32-R HC08C-P32-R	20#(signal)	HCTM120XX	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP000382
		HCTM121XX	20-22 AWG			

Product Type		Connector Type		Polarization	Series	CPA	
HC	HC Signal	18	Plug Connector	A	S32	32POS	2
				B			
				C			

### Terminal & Cable & Seal Plug Options

Plug	Terminal Type	Terminal Part Number	Wire gauge	Wire OD range	Seal Type	Seal Part Number
HC18A-S32 HC18B-S32 HC18C-S32	16#(power)	HCTF214XX <sup>(1)</sup>	14 AWG	2.24-3.00mm	16#(power)	AC-CP000383
		HCTF215XX	16-18 AWG			
		HCTF216XX	16-18 AWG			
HC18A-S32 HC18B-S32 HC18C-S32	20#(signal)	HCTF120XX	20-22 AWG	1.35-2.50mm	20#(signal)	AC-CP000382
		HCTF121XX	20-22 AWG			

(1) Terminal plating specification:

XX=01 gold flash plate overall XX=02 gold flash plate contact 10u"

XX=03 gold flash plate contact 30u" XX=04 Tin over nickel

## ⚠ The information contained in this data sheet is for reference only

Amphenol Technical Products International provides the above product specifications for the standard. HC Signal series of connector to assist users in identifying the correct product for the system to which the connectors may be applied. Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. Specifications are typical and may not apply to all connectors. Note that these specifications are derived from relevant global standards used in the automotive and industrial transportation markets, but they are not a substitute for system level design validation testing, which is the sole responsibility of the system designer and/or end user.

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