



HC Signal Connector

HC Series Connectors

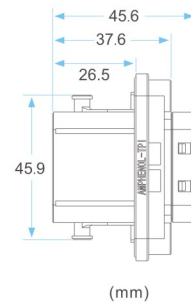
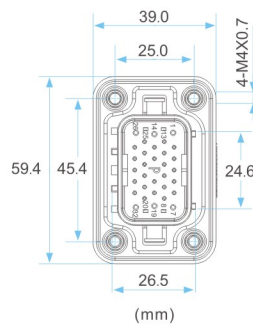
Amphenol HC Signal Series connectors are designed as a high-performance, cost-effective solution for the signal and power transmission for PDU in battery pack. The connector has integrated both signal and power transmission in one body.

| 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: 14~18 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: UL94-V0 | <ul style="list-style-type: none"> Signal and Power Transmission for PDU |

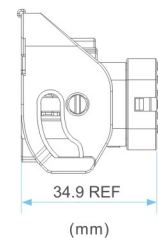
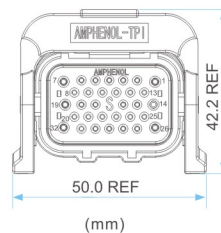
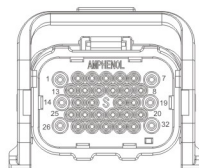
(1) Offer pin plug for unused pin seal

Dimensions

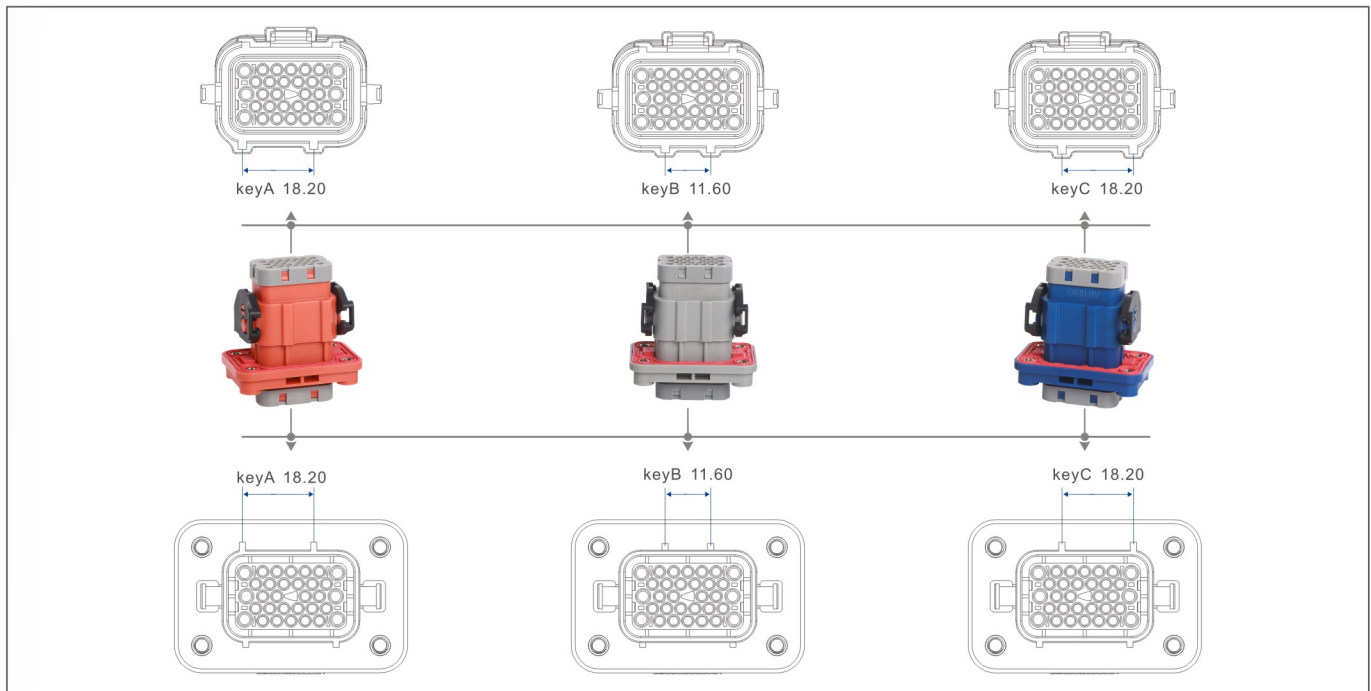
32POS Connector Receptacle



32POS Connector Plug



HC Signal Key Map



Ordering Information

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

Terminal & Cable & Seal Plug Options

| Receptacle | Terminal Type | Terminal Part Number | Wire gauge | Wire OD range | Seal Type | Seal Part Number |
|-------------|---------------|----------------------|------------|---------------|-------------|------------------|
| HC08A-P32-R | 16#(power) | HCTM215XX | 16-18 AWG | 2.24-3.00mm | 16#(power) | AC-CP000383 |
| HC08B-P32-R | 20#(signal) | HCTM121XX | 20-22 AWG | 1.35-2.50mm | 20#(signal) | AC-CP000382 |
| HC08C-P32-R | | | | | | |

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

Terminal & Cable & Seal Plug Options

| Plug | | Terminal Type | Terminal Part Number | Wire gauge | Wire OD range | Seal Type | Seal Part Number |
|-----------|-------------|---------------|----------------------|------------|---------------|-------------|------------------|
| HC18A-S32 | HC18A-S32-2 | 16#(power) | HCTF215XX | 16-18 AWG | 2.24-3.00mm | 16#(power) | AC-CP000383 |
| HC18B-S32 | HC18B-S32-2 | 20#(signal) | HCTF121XX | 20-22 AWG | 1.35-2.50mm | 20#(signal) | AC-CP000382 |
| HC18C-S32 | HC18C-S32-2 | | | | | | |

(1)Terminal plating specification:

XX=01 gold flash plate overall

XX=04 Tin over nickel

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

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