

DC High Voltage Row Header



AI Overview

A DC High Voltage Row Header is a specialized connector designed to safely handle high-voltage DC currents, commonly used in electric vehicles, battery systems, and industrial power electronics.

Overview DC high voltage row headers are connectors that provide secure, reliable connections for high-voltage DC circuits. They are designed to handle voltages ranging from several hundred volts up to 100 kV in some specialized applications, with current ratings typically from tens to hundreds of amperes depending on the design and application. These headers are critical in systems such as battery packs, DC/DC converters, and hybrid or electric vehicle powertrains.

Key Features

- Voltage and Current Ratings:** High-voltage headers are rated for safe operation at high DC voltages, often up to 100 kV for specialized connectors, with current capacities from 30A to 350A depending on the connector type.
- Safety and Insulation:** Many high-voltage headers feature recessed or shielded contacts to prevent accidental contact and reduce the risk of electrical shock. PTFE insulation and oil-tight versions are available for harsh environments.
- Mechanical Design:** These connectors often include screw interlocks, clip locks, or friction-lock systems to ensure secure mating and prevent accidental disconnection. Some designs allow for multiple mounting options, including feedthrough, surface, or panel mounting.
- Material and Durability:** Silver-plated or gold-plated contacts, nickel-plated housings, and robust cable glands provide low-resistance connections and long-term reliability.
- Customization:** Manufacturers like Rosenberger and TE Connectivity offer custom solutions for battery modules, Y-splitters, busbars, and cell module connectors, allowing precise adaptation to vehicle or industrial architectures.

Applications

- Electric and Hybrid Vehicles:** Connecting battery modules, DC/DC converters, and high-voltage power electronics.
- Industrial Power Systems:** High-voltage DC distribution, charging stations, and energy storage systems.
- Laboratory...**

Article Content

Headers, Male Pins | Connectors, Interconnects | DigiKey

This type of header contains male pins within a plastic base and is meant to be mated with a rectangular cable connector or a female socket header for board-to

High Direct Voltages and Currents | Springer Nature Link

High direct (DC) voltages and currents are becoming increasingly important because of the increasing number of high voltage direct current (HVDC) transmission systems worldwide. Numerous

DTM EEC Headers

TE Connectivity's (TE) DEUTSCH DTM EEC Headers offer a 250V DC maximum voltage, 7.5A current rating, and an -55°C to +125°C operating

Headers & Wire Housings – Mouser

Headers & Wire Housings are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Headers & Wire Housings.

Power Connectors | Products | Amphenol

HVSP series is a high voltage small size plastic connector, it has rotation and polarization integration, can be used in energy storage. Rated current from 100A

PowerWize Connectors

Leveraging its advanced COEUR socket technology, the PowerWize Interconnect System is designed to meet the demanding needs of modern high-power

High-Voltage Header

TE's broad line of high voltage (HV) connectors support all needed interfaces in

IDC (electrical connector)

In some instances USB through version 2 on motherboards – 2.54 mm pitch, 10 pins, 2×5 (2 rows of 5 pins) For all of the above connectors, the computer

Transmission Line and Highway Rights-of-Way (ROW) Requirements

ROW distance needs can also be determined on the type of structure used for the transmission line (i.e., single pole steel, H-frame, lattice tower, etc.). Typically, 345kV and larger transmission lines will use

Wire-to-Board Connectors | Molex

Molex offers a wide variety of wire-to-board connector types that fit applications requiring high-power, microminiature, sealed, rugged, and reliable solutions.

2.54mm Pin Header

2.54mm Pin Header Double Row, Right Angle, Through Hole Type Specifications
Current Rating Voltage Rating Contact Resistance Insulation Resistance Withstanding Voltage Operating

Wire-to-Board Connectors | Molex

Available with a gold- or tin-plated finish, a variety of housings and crimp terminals, shrouded or unshrouded headers, and single- or dual-row receptacles, these

High Power Connectors & Systems

High power connectors and rugged connector interconnects up to 60 A, available in small form factors and elevated designs with power

Circuit Protection, Fuses, Power Control & Sensing

Circuit Protection, Fuses, Power Control & Sensing Solutions - Littelfuse

Amazon : Terminal Blocks

Terminal Blocks - 12pcs (6 Sets) 4 Positions Dual Row 600V 25A Screw Terminal Strip Blocks with Cover, Pre-Insulated 400V 25A 4 Positions Barrier Strip Black & Red

High Voltage Cables: An Essential Guide for Design

Discover essential considerations for high voltage cable design, including voltage levels, current capacity, temperature, flexibility, and more.

High Voltage DC (HVDC) Overhead Transmission Lines

For very long, high power transmission applications the voltage and current ratings have often been increased based on extrapolations of existing, proven technologies if such extrapolations are

High Voltage Connectors

The single pole high voltage connector pairs HC7M-xx (cable mounting plug) and HC7F-xx (instrument mounting receptacle) are available for operating voltages of

High Voltage DC (HVDC) Overhead Transmission Lines

HVDC transmission line designs are in many respects similar to those of high voltage AC transmission lines. The key differences are that most HVDC lines are connected to bipolar converters

High Voltage Header

Remove the 2nd row lower seat cushion. See Seat Cushion - 2nd Row (Remove and Replace). Perform Vehicle HV Disablement Procedure.

HV Components

Complementing its standard connector portfolio, Rosenberger develops and manufactures customer-specific high-voltage components for electric and hybrid vehicles.

High Voltage -Board Charger & DCDC converter

The high voltage combo OBC DC/DC combines the functionality of an Onboard Charger (OBC) with that of a DC/DC converter (DC/DC). The OBC is

High Voltage Battery Assembly

Release the HV connector from the DC FC header, and then use an inflatable airbag to suspend the busbar assembly above the ancillary

High voltage

High voltages may lead to electrical breakdown, resulting in an electrical discharge as illustrated by the plasma filaments streaming from a Tesla coil. High voltage is

SECTION 6: HIGH-VOLTAGE DC TRANSMISSION

Power is transmitted at high voltage Lower current Lower I²R line losses Most power transmitted as high-voltage AC Transformers step voltages up for transmission, down at loads Transformers only

tjhxpcb

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Surface Mount Headers, Male Pins | Connectors,

This type of header contains male pins within a plastic base and is meant to be mated with a rectangular cable connector or a female socket header for board-to

High-Current / High-Voltage Terminal Blocks

High-Voltage Barrier-Style Terminal Blocks Curtis Industries manufactures a variety of barrier-style terminal blocks including high-voltage, dual-row and single-row to fit many different electrical

Board-to-Board (BTB) Signal Connectors | Space

2 ROW FINE PITCH, PARALLEL, HIGH-SPEED, MEZZANINE, PCIE® GEN 6, BOARD-TO-BOARD CONNECTOR FLEXIBLE SOLUTION FOR

Contact Us

For more information, pricing, or custom solutions, please contact us:

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