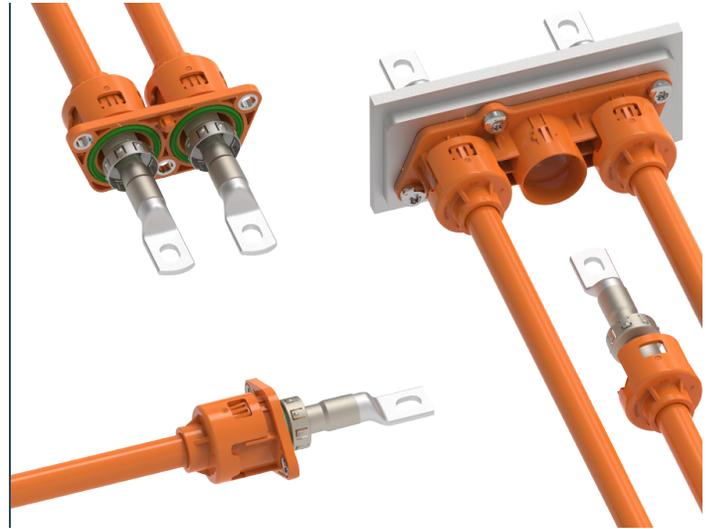


# INTRODUCING IPT-HD POWER BOLT CONNECTOR SERIES

- Help ensure higher EMC (Electromagnetic Compatibility) performance with a new shielding design to provide required low-contact resistance
- Withstand extreme temperatures and engine-level vibrations with an operating temperature range of  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$



Ensuring the high EMC (Electromagnetic Compatibility) performance for hybrid and electric vehicles is the critical point for manufacturers and consumers. TE Connectivity's (TE) new IPT-HD power bolt high-voltage connector offers a new shielding design, providing low-contact resistance and thicker options for conductor cross-sections used in MCU (Motor Control Unit), e-axle, and e-motor applications for renewable energy vehicles operating in demanding environments.

Providing low contact resistance even after the vibration with 1-, 2- and 3- positions, the IPT-HD power bolt connector can be used in environments exposed to extreme temperatures ( $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ) and excessively high engine-level vibrations. With an ever-increasing demand for low-contact resistance and flexible assembly options for a wide range of diverse applications, the IPT-HD power bolt series comes in  $50\text{ mm}^2$ ,  $70\text{ mm}^2$  and  $95\text{ mm}^2$  conductor cross-sections. In addition to the traditional integral wiring harness assembly and an easy machining process for mounting holes, the IPT-HD power bolt connector series provides a separate, single wiring harness for increased assembly flexibility.

## APPLICATIONS

- E-motor
- MCU (Motor Control Unit)
- PDU (Power Distribution Unit)
- E-Axle

## KEY BENEFITS

- Help ensure higher EMC (Electromagnetic Compatibility) performance with a new shielding design to provide required low-contact resistance
- Withstand extreme temperatures and engine-level vibrations with an operating temperature range of  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Provide environmental protection with IP67, IP68 and IP6K9K sealing levels
- Enable increased assembly flexibility with a separate single wiring harness in addition to the traditional integral wiring harness assembly
- Facilitate options for a wide range of diverse applications with  $50\text{ mm}^2$ ,  $70\text{ mm}^2$  and  $95\text{ mm}^2$  conductor cross-sections
- Offer a cost-effective solution with an easy machining process for mounting holes

## TARGET MARKETS

- Industrial and Commercial Transportation (ICT)

## PERFORMANCE

- Operating Temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Voltage Range: 1000V
- Conductor Cross-sections:  $50\text{ mm}^2$ ,  $70\text{ mm}^2$  and  $95\text{ mm}^2$
- Current Carrying Capacity: 250/300/(400A) @ $85^{\circ}\text{C}$
- Vibration Level: LV214-S4/USCAR V3  
ISO 16750-3 Engine
- Fire Classification: UL94-V0
- IP Rating: IP67, IP68 and IP6K9K

## LEARN MORE

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[IPT-HD FAQ's](#)

[IPT-HD Video](#)

[IPT-Datasheet](#)