

## Comparison of CS connector s high temperature resistance with traditional cables



### Overview

This article will analyze in detail the core selection factors of high temperature resistant heavy duty electric cable connectors. Rugged sensors in FADEC equipment—an extreme high temperature environment—are also exposed to temperature extremes well beyond the capabilities of conventional interconnect devices. When selecting, it is necessary to comprehensively consider multiple indicators such as heavy duty wire connectors material. Electrical connectors always specify a working current which is defined by international, national or even industry specific standards that provide a maximum temperature rise ( $\Delta t$ ) value allowed under working current. These are measured at the hottest point of the connector by using a very precise. Tensility introduces its High Temperature Cable Assemblies, Connectors, and Wire, a series rated to 105°C for higher energy use and heat resistance. Ruggedization methods and processes apply to. High-temperature cables are engineered to operate efficiently in extreme heat conditions, typically above 90°C (194°F), while standard cables are designed for normal ambient

temperatures, usually up to 70°C (158°F).

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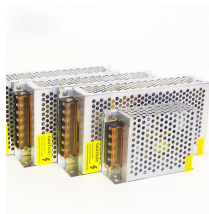
The experimental approach presented in this work can be applied to better understand the role of the contact resistance, allowing the design of improved and more reliable substation ...



Fischer Core Series Stainless Steel connectors are made of 316L stainless steel, polyether ether ketone (PEEK), and ethylene propylene diene monomer (EPDM), offering high ...



The effect of temperature on the insertion characteristic curve is compared and analyzed. Based on the variation in contact resistance and force, surface morphology and element analysis, the ...



The ThermaRex product family includes connectors, cables, and wire protection conduit systems organized into two temperature ranges: ThermaRex HT (high-temperature) and ThermaRex Cryo.



We must remember that the temperature rise is directly proportional to the connector resistance. When we take this into account the estimation of the resistance increase is consistent.



When selecting, it is necessary to comprehensively consider multiple indicators such as heavy duty wire connectors material properties, electrical performance, mechanical strength, etc. to ...



While standard cables are more economical for normal temperature applications, the use of high-temperature cables in appropriate environments can lead to substantial long-term savings by ...



Custom insulation in the connectors allows this series to be stable at high temperatures with a similar size and footprint as other cable assemblies. Cable assemblies available in a variety of ...



Temperature rise is proportional to the square of the current Is this really true? Temperature rise test done at 20A



Read the full article authored by Wim Vanheertum, Product Management Director at Fischer Connectors: " Standards, Materials, and Testing for Four Types of Resistance " (pages 11-16 ...

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