Internal High Speed Cable

CRE Cable Assembly

OVERVIEW

CRE is Luxshare 's own interface, paddleless design, the cable is directly soldered on the connector, and the loss is better. Compared with the connector of the same type, the height of this CRE is the lowest, only 8.35mm. In addition, the design has a four-point locking structure, so that the contact reliability is better. easy-to use and high speed connector and cable assembly solution that helps server and networking equipment design flexibility, reduces overall space, and extends the reach for high data rate signals.

CRE cables are designed for data center, networking and telecommunications markets that use PCIe Gen5, 56G PAM4 and can be upgrade to PCIe Gen6 and 112G PAM4 in future. The solution can support cable to board, which include chip to chip and chip to external IO.

FEATURES & BENEFITS

- Support PCIe 5.0, PCIe6.0
- Paddleless
- Impedance: 85ohm
- Ultra-low male and female inter matching high and low 8.35mm, Lower than same type industry connectors
- Support 30AWG-34AWG raw cable
- Highly reliable strap pulling design (four-point locking)

PRODUCT APPLICATIONS

Servers and storage devices
High performance computing
Data center and networking equipment
Wireless base stations and radios
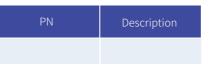
TECHNICAL INFORMATION

MATERIAL

Contact Base Metal: Copper Alloy
Contact Area Finish: Gold over Nickel
Solder Area Finish: Tin over Nickel
Housing: High temperature thermoplastic (UL 94V-0)

MECHANICAL PERFORMANCE

Mating Force: 0.5N max./per pin
Durability: 15u" Au:100 cycles, 30u" Au:250 cycles
Latch Retention Force: 50N min.
Insertion Force: 0.5N max./per pin
Withdrawal Force: 0.04N min./per pin

ELECTRICAL PERFORMANCE

Voltage Rating: 30V DC per contact max.
Current Rating: 0.5A per contact max.
Differential Impedance: 85Ω ± 10Ω

ENVIRONMENTAL

Operating temperature: -40℃ to +80℃
storage temperature: -10℃ to +60℃

SPECIFICATION

EIA 364

Partial PN Table

PN	Description