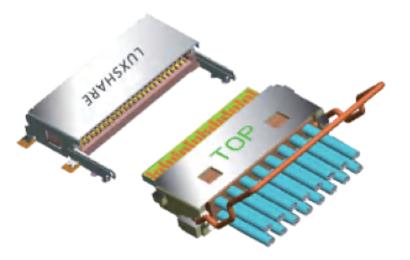
## **Internal High Speed Cable**



# Omniedge ULP Cable Assembly



In order to meet higher density demand in networking equipment and server, Luxshare-TECH develops Omniedge ULP as a new interconnection system including connector and cable assemblies to support higher signal transmission, which can be used in application of 24Gbps SAS signal or 16GT/s PCIe signal. Besides, it also can support the 56GT/s PAM4.

Ultra Low Profile Omniedge (ULP) solutions with 0.6mm contact pitch is one of the smallest connectors for high speed Interconnected technology in current market, which is designed and developed independently by Luxshare-TECH. It can save much space in end device and even can be placed under the heat sink on ASIC, because the height of the mated connector is less than 4mm.

Omniedge ULP uses double drain raw cable that has smaller size and good bend performance. Luxshare-TECH can supply 8i, connector and cable assembly, and also can provide customized type, as 4i, 12i with sideband and so on.

#### **FEATURES & BENEFITS**

- Support cable to board application:0.8mm PCB card thickness
- Multiple channels are optional: 8i and 12i are available for different application
- Small size design with great robustness : Pitch 0.6mm connector and max 25N wrenching test
- Excellent SI performance: Signal rates up to PCIe4 16GT/s, SAS 4.0 24Gbps and 56GT/s PAM4
- Compatible with diverse industry standards and protocols including SAS, PCIe
- Straight and customization cable plug are optional
- 85 ohm and 92 ohm impedances are optional
- 30-34AWG cables are available for both discrete and ribbon cable
- RoHS compliant. Halogen free is available on request

#### **PRODUCT APPLICATIONS**

#### **INDUSTRY STANDARDS**

DATA

97

Servers RAID System Storage Racks HBA Interfaces **COMMUNICATIONS** Switches Independent research and development of Luxshare-TECH SAS 3.0 / 4.0(24Gbps) PCIe Gen 3 / Gen 4(16GT/s) 56GT/s PAM4

## **Omniege ULP Cable Assembly**

### **TECHNICAL INFORMATION**

#### MATERIAL

Contact gold plated 30u" Metal Latch, Plastic body

#### **ELECTRICAL PERFORMANCE**

Differential impedance: 85 & 100 ohm Current : 0.5 A/contact Voltage: 30 V AC/contact

#### **SPECIFICATION**

ES-10-00-0021

#### TYPES



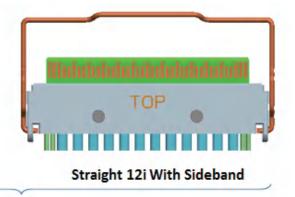
Straight 8i

#### **MECHANICAL PERFORMANCE**

Rated Durability Cycles 250 Latched Plug Retention Force 50 N minimum

#### **ENVIRONMENTAL**

Storage Temperature Range: -20°C to +80°C Operating Temperature: 0°C to +80°C RoHS compliant



**ULP Cable** 

#### **Partial PN Table**

Product Numbers	Product Description
LA0XXXXX-SD-R	Internal Omniedge ULP 8i Cable Assembly 1.0 m 30 AWG
LA0XXXXX-SD-R	Internal Omniedge ULP 12i Cable Assembly 1.0 m 30 AWG
LA0XXXXX-SD-R	Internal Omniedge ULP 8i Cable Assembly 0.7 m 32 AWG
LA0XXXX-SD-R	Internal Omniedge ULP 12i Cable Assembly 0.7 m 32 AWG
LA0XXXXX-SD-R	Internal Omniedge ULP 8i Cable Assembly 0.5 m 34 AWG
LA0XXXX-SD-R	Internal Omniedge ULP 12i Cable Assembly 0.5 m 34 AWG