



POWER CONNECTORS AND CABLE ASSEMBLIES FOR OPEN COMPUTE PROJECT (OCP)

Our power connectors and cable assemblies for Open Compute Project (OCP) are designed to meet OCP power distribution architecture standards. These products provide a simple yet customizable design that enables a standardized platform capable of efficiently distributing up to 500A of power per UL and CSA criteria, while offering improved electrical performance.

- Simple plug-and-play solutions
- Support 12V up to 48V
- Offers low resistance and low milli-volt drop
- Support low energy consumption and operational cost savings
- Fully compatible with specifications for use in rack-level bus bar applications
 - Power shelves
 - Battery backup unit (BBU) shelves
 - IT trays/cubby shelves
 - Server sleds

Power Connectors and Cable Assemblies

For Open Compute Project (OCP)

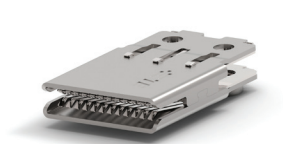
48V Bus Bar Connectors & Cable Assemblies

Features and Benefits:

- Allow for a single vertical bus bar to be used in the rack, lowering overall cost
- 48V solutions use less power than 12V solutions, therefore lowering system operating cost
- Better heat dissipation provides lower power consumption, saving overall power consumption costs in the application
- Connectors feature lower profiles and better contact resistance, which enables lower overall system power consumption
- Can be used in a variety of data center applications including power, BBU and cubby shelves
- Custom cable assemblies available

Ordering Information:

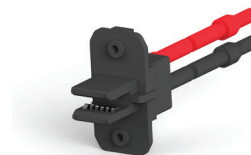
| TE Part Number | Description | Application | Current | Voltage |
|----------------|------------------------------------|----------------------------------|------------|---------|
| 2311291-1 | Shelf Level Bus Bar Cable Assembly | IT Tray | up to 75A | 48V |
| 2204866-1 | Dual Pole Bus Bar Power Connector | BBU Shelf | up to 500A | 48V |
| 2204273-2 | Bus Bar Power Connector | Cubby Shelf & Individual Shelves | up to 500A | 48V |



500A Bus Bar Connector



500A Dual Pole Connector



75A Cable Assembly

12V or 48V Bus Bar Connectors & Cable Assemblies

Features and Benefits:

- Robust, metal connector is designed to help withstand rack installation
- Better heat dissipation provides lower power consumption, saving over power consumption costs in the application
- Connectors feature lower profiles and better contact resistance to enable lower overall power consumption in the data center
- The same connector can be used for either 12V or 48V power and for power or return (one for each)
- Custom cable assemblies available

Ordering Information:

| TE Part Number | Description | Application | Current | Voltage |
|----------------|--|---|------------|------------|
| 2204080-1 | Bus Bar Power Connector | IT Tray and Cubby Shelf | up to 150A | 12V or 48V |
| 2204273-1 | Bus Bar Power Connector | Power Shelf and BBU | up to 500A | 12V or 48V |
| 2323858-1 | Shelf Level Bus Bar Cable Assembly | Power to Server Sleds | up to 25A | 12V or 48V |
| 2323857-1 | Shelf Level Bus Bar Cable Assembly | Power to Server Sleds | up to 50A | 12V or 48V |
| 2159562-1 | MULTI-BEAM XLE Panel Mount to Press-Fit Power Cable Assembly | Power Delivery to Cubby Sled, Subsystems for Storage, Compute, etc. | up to 40A | 12V or 48V |
| 2159443-1 | MULTI-BEAM XLE Panel Mount to Squeeze Release | Power Delivery to Cubby Sled Direct or via Interposer Board | up to 50A | 12V or 48V |



150A Bus Bar Connector



25A Cable Assembly



MULTI-BEAM XLE Panel Mount to Press-Fit

Power Connectors and Cable Assemblies

For Open Compute Project (OCP)

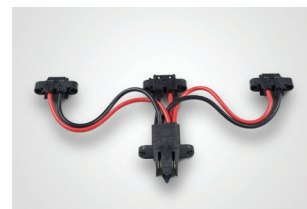
12V Bus Bar Connectors & Cable Assemblies

Features and Benefits:

- Reduces the number of bus bars in a rack from three to one, saving costs and streamlining power distribution architecture
- Distributes up to 120A of power per UL and CSA criteria from a single bus bar to an Open Rack V2 Sled design
- Reliable contact crimp connection helps eliminate power loss with a maximum contact resistance of 0.2 milliohms and is designed for hot-pluggable applications, which minimizes unwanted system downtime
- Anti over-stress feature helps to ensure the contact is protected to avoid any kind of damage caused by over-deflection during mating or un-mating
- Custom cable assemblies available

Ordering Information:

| TE Part Number | Description | Application | Current | Voltage |
|----------------|--|--|------------|---------|
| 2314316-1 | V2 Bus Bar Clip and 1x3 Cable Assembly | Three-bay Shelf for V2 Open Rack Storage i.e. Cubby/ Horizontal Sled orientation | up to 150A | 12V |
| 2321561-1 | V2 Bus Bar Clip and 1x2 Cable Assembly | Four-bay Shelf for V2 Open Rack Storage i.e. vCubby/ Vertical Sled orientation | up to 100A | 12V |



Bus Bar Clip and Cable Assembly

Other TE Power Solutions for OCP

Ordering Information:

| TE Part Number | Description | Application | Current | Voltage |
|----------------|------------------------------------|------------------------------------|-----------|------------|
| 2323858-1 | Shelf Level Bus Bar Cable Assembly | Power to Server Sleds | up to 25A | 12V or 48V |
| 2323857-1 | Shelf Level Bus Bar Cable Assembly | Power to Server Sleds | up to 50A | 12V or 48V |
| Custom Designs | ELCON Mini Cable Assembly | Internal Server Power Distribution | up to 40A | 500V AC/DC |

Associated Products

| Product | Wire Size | Current | Specialty |
|--|--------------|-----------|---|
| MULTI-BEAM XLE Cable Receptacles | 26-8 AWG | up to 50A | Low, high power options in same connector |
| ELCON Mini Connectors | 14-10 AWG | up to 35A | Low profile |
| RAPID LOCK Bus Bar Connectors | 12-0 AWG | 50-250A | Bus bar quick connect/disconnect |
| High Current Universal MATE-N-LOK Connectors | 30-10 AWG | up to 35A | Panel mount or free hanging versions |
| AMP Power Series Connectors | 300MCM-0 AWG | 15-275A | Single & 2 pole quick connect/disconnect |
| Wave Crimp Connectors | Flat Cable | 40-110A | Flat |



MULTI-BEAM XLE Cable Receptacles



ELCON Mini Connectors



RAPID LOCK Bus Bar Connectors

Power Connectors and Cable Assemblies

For Open Compute Project (OCP)

FOR MORE INFORMATION

TE Technical Support Center

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