



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Ceiling Grid Power

### Low Voltage DC Interconnects

Innovative grid system interconnects distribute safe, low-voltage direct current (DC) power from power server modules to lighting fixtures, sensors, and other devices in the ceiling. Configuration flexibility meets the changing needs of spaces - enabling fast and easy reconfigurations without rewiring. The plug-and-play modularity allows for endless design options that can enhance and change with the functionality of your interiors.





## BENEFITS

- Safe, low-voltage DC power distribution system
- Plug and play standard for integrated management and control of energy efficient devices
- Eliminates device level AC to DC electrical power conversion
- Easier integration of on-site alternative energy sources such as solar, wind, fuel cell and batteries
- Re-purpose and reconfigure your application without rewiring

## APPLICATIONS

- Office
- Higher Education
- Government
- Military
- Data Centers

## ELECTRICAL

- **Operating current:** up to 4.1 Amps
- **Operating voltage:** 24 Volts DC (nominal)

## MECHANICAL

- **Environmental operating temperature:** -55° to 85° C
- **Internal Bus Bar (fixture or device) connector:** 50 cycles min.
- **External Bus Bar (fixture or device) connector:** 50 cycles min.
- **Device Cable Assembly:** 50 cycles min.
- **Power Feed Cable Assembly:** 10 cycles min.
- **Main Beam to Main Beam Cable Assembly:** 10 cycles min.

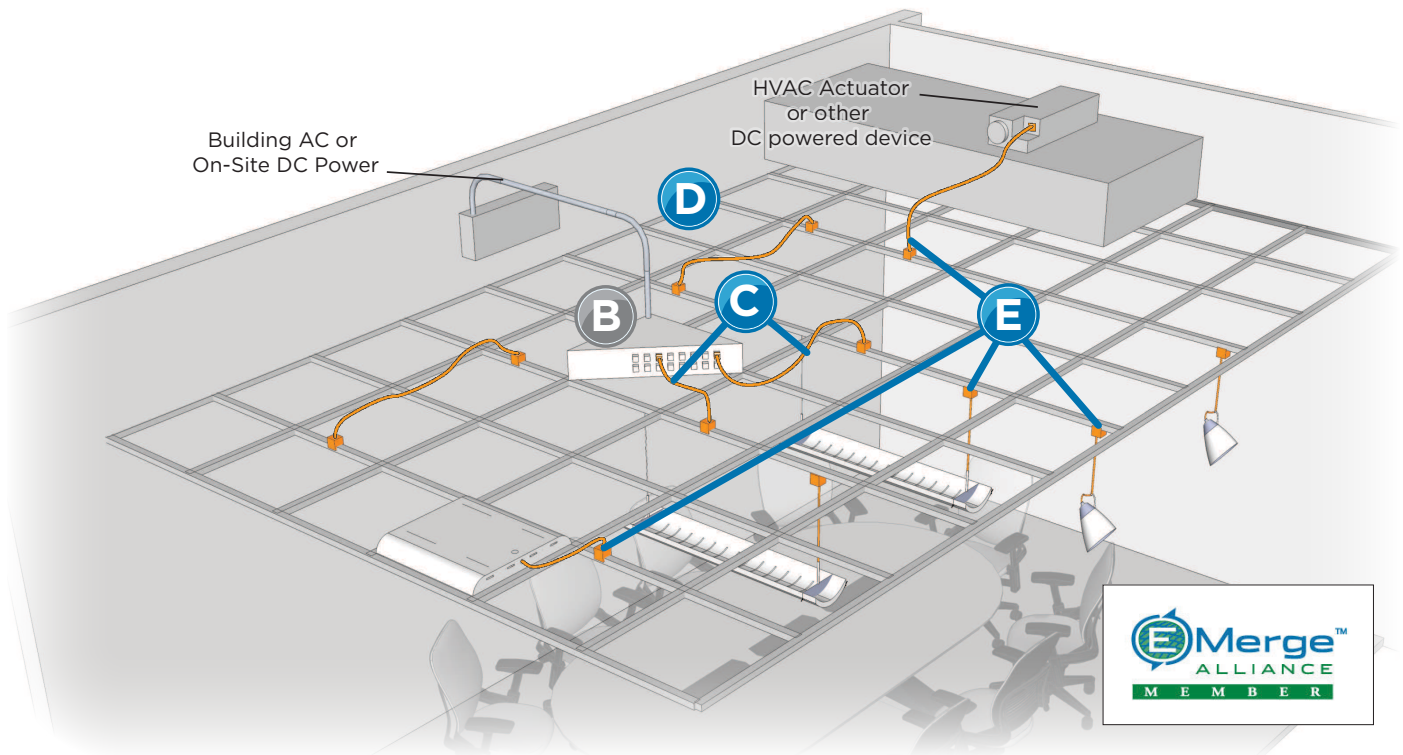
## STANDARDS AND SPECIFICATIONS

- EMerge Alliance® Registered
- UL2577
- ANSI/NFPA 70



Photo courtesy of Armstrong Worldwide Industries

## Design Your Ceiling Grid Power System



### Step 1: Select your ceiling system

- A** DC Flexzone Grid by Armstrong Worldwide Industries, Inc.

### Step 2: Power your DC ceiling system

- B** Power Server Module by Nextek Power Systems

- C** TE Power Feed Cable Assembly

*Connects a power server module to the low voltage bus bar on a DC ceiling grid main beam (up to 16 cable assemblies per power server)*

- D** TE Main Beam to Main Beam Cable Assembly

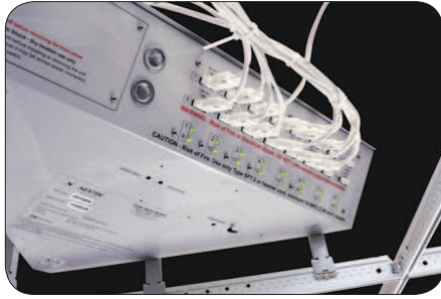
*Connects power from a low voltage bus bar in a main beam to another low voltage bus bar*

### Step 3: Power and Connect your Lighting Fixtures & Devices

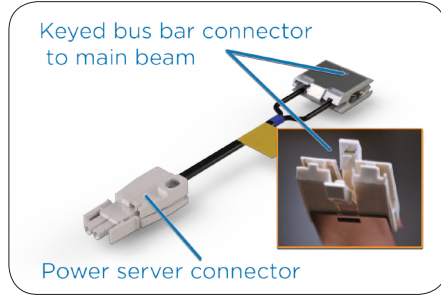
- E** TE Device Connectors and Cable Assemblies

*Connects lighting fixtures & other electrical devices to low voltage bus bar in a main beam*

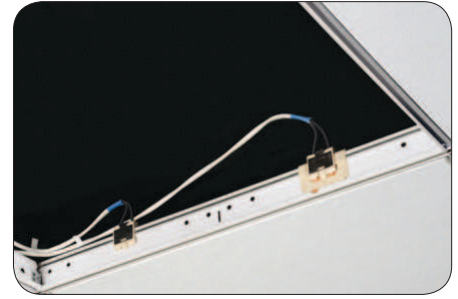
**POWER YOUR DC CEILING SYSTEM**



Power Server Module



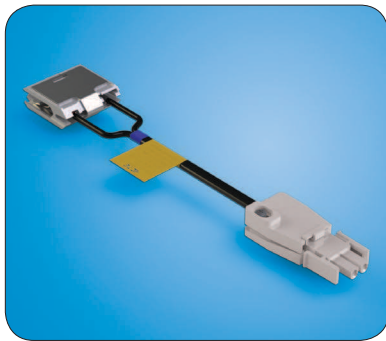
Power feed cable assemblies are keyed for polarization to the main beam



Low voltage bus bar on a DC ceiling grid main beam

**POWER FEED CABLE ASSEMBLIES**

Connects a power server module to the low voltage bus bar on a DC ceiling grid main beam (up to 16 cable assemblies per power server)

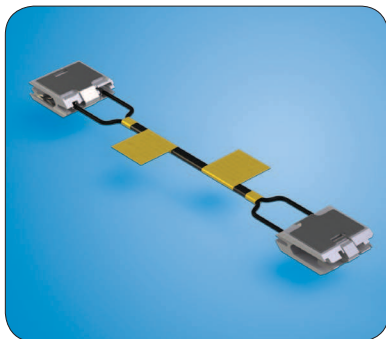


Part number	Length ft.
2106725-1 (12 AWG)	5
2106725-2 (12 AWG)	10
2106725-3 (12 AWG)	15
2106725-4 (12 AWG)	20
2106725-5 (12 AWG)	25 <span style="float: right;">NEW</span>
2106725-6 (12 AWG)	30 <span style="float: right;">NEW</span>

Power feed cable assemblies are keyed for connection to power-in key slots on the DC ceiling grid main beam.

**MAIN BEAM TO MAIN BEAM CABLE ASSEMBLIES**

Connects power from a low voltage bus bar in a main beam to another low voltage bus bar



Part number	Wire gauge	Length ft.
2106728-1	18 AWG	3
2106728-2	18 AWG	6
2085828-1	12 AWG	4 <span style="float: right;">NEW</span>
2085828-2	12 AWG	8 <span style="float: right;">NEW</span>

Main beam cable assemblies are keyed for connection to power-in key slots on the DC ceiling grid main beam.

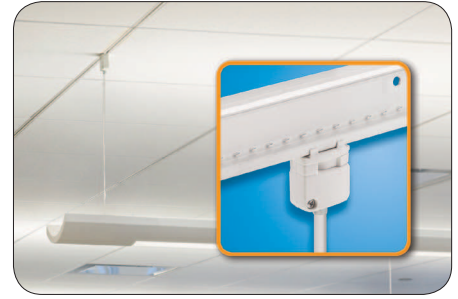
**POWER AND CONNECT YOUR LIGHTING FIXTURES AND DEVICES**



Connection to bus bar on top of main beam



Connects directly to a fixture and to a main beam



Connection to bus bar on bottom of main beam

**DEVICE CONNECTORS AND CABLE ASSEMBLIES**

Connects lighting fixtures and other electrical devices to the top of a main beam (no keying)



Part Number	Length ft.
2106718-1 (18 AWG)	5
2106718-2 (18 AWG)	10

Connects lighting fixtures and other electrical devices to the bottom of a main beam (no keying)



Part Number	Length ft.
2106710-1	connector only
2085817-1	5
2085817-2	10

**FIXTURE CONNECTOR**

Connects a light fixture or other device to a top rail attach ceiling system



Part Number	
2106739-1	connector only

## FOR MORE INFORMATION

[te.com/lighting](http://te.com/lighting)

### TE Technical Support Center

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Netherlands:	+31 (0) 73-6246-999
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Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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