

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0459120027](#)  
**Status:** **Active**  
**Overview:** Edge Card Connectors  
**Description:** 12.90mm Pitch EXTreme PowerEdge™, Mixed Power/Signal Card Edge Connector, Double Sided, 4 Segments (Power, Power, Signal, Signal Sequence), Press-Fit

**Documents:**

[3D Model](#) [Packaging Specification PK-45714-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family Edge Card Connectors  
 Series [45912](#)  
 Circuit Size Range 1-64 Circuits  
 Component Type Edgecard to PCB  
 Data Rate Unrated  
 Edge Card Thickness 1.57mm  
 High Power Bay (30.0A or more) Yes  
 Orientation Vertical  
 Overview [Edge Card Connectors](#)  
 Product Name EXTreme PowerEdge™  
 Standard Based General  
 UPC 822350709941

**Physical**

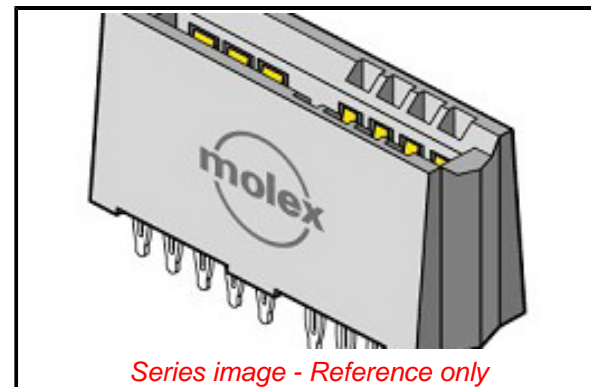
(p)ower-(s)ignal Configuration 2p - 2p - 8s - 8s  
 Circuits (Loaded) 20  
 Circuits (maximum) 20  
 Color - Resin Black  
 Durability (mating cycles max) 250  
 Entry Angle Vertical (Top Entry)  
 Flammability 94V-0  
 Keying to Mating Part N/A  
 Material - Metal High Performance Alloy (HPA), Phosphor Bronze  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Net Weight 8.684/g  
 PC Tail Length 4.50mm  
 PCB Thickness - Recommended 2.40mm  
 Packaging Type Tray  
 Pitch - Mating Interface 12.90mm  
 Plating min - Mating 0.762µm  
 Plating min - Termination 3.810µm  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Through Hole - Compliant Pin

**Electrical**

Current - Maximum per Contact 3.0A, 40.0A  
 Voltage - Maximum 250V

**Solder Process Data**

Lead-freeProcess Capability N/A



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
 -ED/01/2017 (12  
 January 2017)

**Halogen-Free**

**Status**

**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS	Green Image
ELV	Not Relevant
RoHS Phthalates	Not Contained

**Search Parts in this Series**

[45912 Series](#)

**Mates With**

1.58mm Double Sided Card Edge

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification  
Sales Drawing

PK-45714-001  
SD-45912-001

This document was generated on 05/01/2017

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**