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**Part Number:** [0455931603](#)  
**Status:** **Active**  
**Overview:** HandyLink™ I/O Interconnect System  
**Description:** 0.80mm Pitch HandyLink™ Plug for PCB Termination, 16 Circuit (pins 2,3,4,5,6,7,15 voided)

**Documents:**

[3D Model](#) [Packaging Specification PK-45593-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-44828-001 \(PDF\)](#)

**Agency Certification**

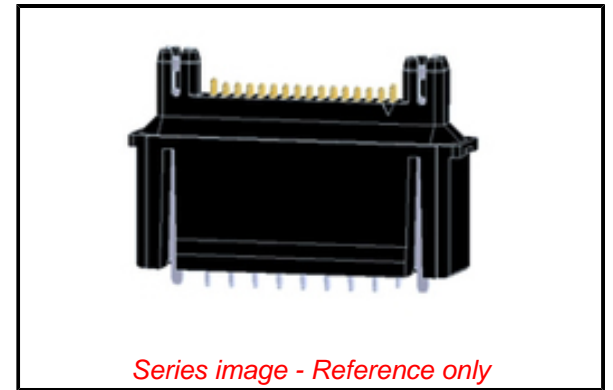
CSA LR19980  
 UL E29179

**General**

Product Family I/O Connectors  
 Series [45593](#)  
 Application Board-to-Board  
 Comments Please reference Application Specification AS-44828-001 when designing  
 Component Type Plug  
 More Detailed Tech Information [handylink@molex.com](mailto:handylink@molex.com)  
 Overview [HandyLink™ I/O Interconnect System](#)  
 Product Name HandyLink®  
 Type N/A  
 UPC 756054882641

**Physical**

Circuits (Loaded) 9  
 Circuits (maximum) 16  
 Circuits Detail Terminals 1, 8, 9, 10, 11, 12, 13, 14, 16 loaded  
 Color - Resin Black  
 Durability (mating cycles max) 700  
 Flammability 94V-0  
 Gender Plug  
 Keying to Mating Part None  
 Lock to Mating Part Yes  
 Material - Metal High Performance Alloy (HPA), Stainless Steel  
 Material - Plating Mating Gold, Tin  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Net Weight 6.150/g  
 Orientation Vertical  
 PC Tail Length 1.10mm  
 PCB Retention Yes  
 PCB Thickness - Recommended 1.00mm  
 Packaging Type Tray  
 Panel Mount No  
 Pitch - Mating Interface 0.80mm  
 Plating min - Mating 0.102µm, 1.270µm  
 Plating min - Termination 1.270µm, 5.080µm  
 Polarized to Mating Part Yes  
 Surface Mount Compatible (SMC) No  
 Temperature Range - Operating -40°C to +85°C  
 Termination Interface: Style Through Hole  
 Wire Size AWG N/A



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Not Reviewed**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**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	Not Reviewed
ELV	Not Relevant
RoHS Phthalates	Not Reviewed

**China RoHS**

**Search Parts in this Series**

[45593 Series](#)

**Mates With**

[44828 HandyLink®#153 Receptacle](#)

**Electrical**

Current - Maximum per Contact 1.5A  
Shielded No  
Voltage - Maximum 30V

**Solder Process Data**

Lead-freeProcess Capability WAVE

**Material Info****Reference - Drawing Numbers**

Packaging Specification PK-45593-001  
Product Specification PS-44828-001  
Sales Drawing SD-45593-001, SD-45593-3600

This document was generated on 10/27/2016

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