ES10 Series
Single Wire LED Lighting Connector

Connector Training Module

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Application Examples

- LED lighting
- LCD television backlight
- Tablet PC
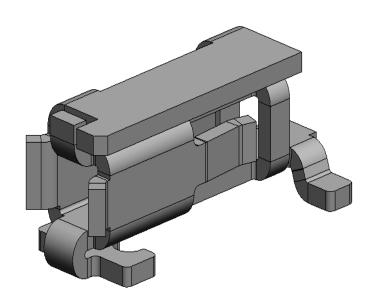- Various devices w/ minimal mounting space

ES10 Series Overview

JAE's ES10 series connector separates itself from other LED lighting connectors by requiring no soldering or crimping of the wire, which saves time and cost, and not having an insulator saves space and cost. The ES10 Series is a single wire, single contact connector, making insertion quick and easy. Its compact size makes this connector the smallest in the industry and minimizes mounting space needed to allow for design flexibility.
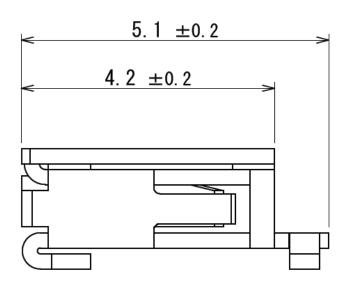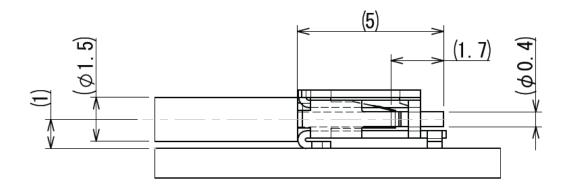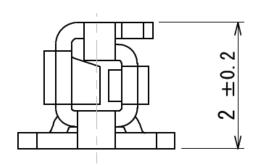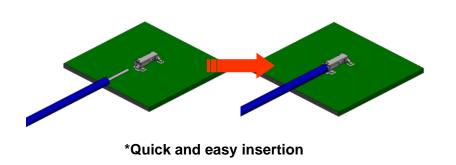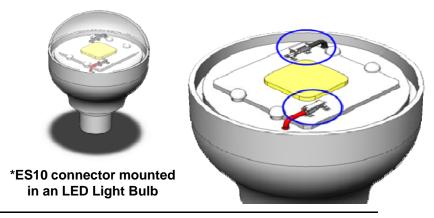
Basic Dimensions

*All units in mm

ES10 Series Features

Space-Saving Connector

- Single pin and wire structure allows quick and easy insertion
- Compact size of 2.5mm width, 5.1mm length, and 2.0mm height
- No soldering or crimping of wires required
- No insulator minimizes mounting space and maximizes design flexibility
- Guiding feature ensures easy wire insertion
- Original spring contact structure improves contact reliability
- Available in embossed reel packaging for automated mounting
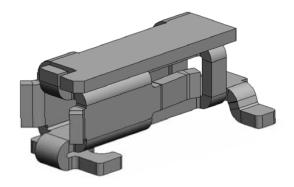- RoHS compliant
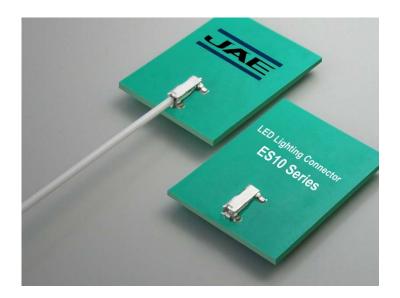
*Quick and easy insertion

*ES10 connector mounted in an LED Light Bulb

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General Specifications

Number of Positions	1
Dimensions (width x length x height)	2.5mm x 5.1mm x 2.0mm
Mating Direction	Horizontal Connection
Contact Resistance	30m Ω max
Operating Temperature Range	-40 to +105°C
Current Rating	AC/DC 2A
Wire Gauge	26 AWG ~ 24 AWG
Cable Unmating Force	24 AWG: 5N (min.) 26 AWG : 4N (min.)
Conductor Diameter	0.4mm to 0.53mm
Insulator Diameter	2.0mm max.

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Materials and Finishes

Component	Material/Finish
Contact	Copper alloy / Sn plating

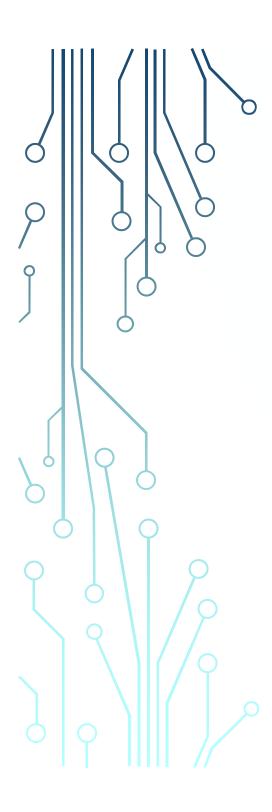Copyright © 2014 JAE Electronics, Inc.

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Summary

- Compact size and low-profile design

- Quick and easy insertion

- Space-saving structure requires no insulator

- No soldering or crimping of wires required saves time

- Available in embossed reel packaging for automated mounting

- RoHS compliant

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