IL-Z SERIES CONNECTORS

1.25mm (.049”) Contact Spacing, PCB-to-Cable (Crimp Type) Connectors

FEATURES

- Crimp type for efficient wire termination
- High reliability socket contacts
- High-density packaging and automatic mounting
- SMT and through hole pin headers available
- Boxed pin header design prevents mismating
- Anti-wicking feature

IL-Z Series connectors are designed for board-to-cable applications. High-density 1.25mm (.049”) contact spacing (single row), 5.2mm (.205”) high when mated vertically. Low-profile design includes board-mounted pin headers (straight and right-angle) and wire-terminated socket housings (with crimp socket contacts).

The IL-Z Series has a wide variety of applications, including commercial and household appliances, VTR’s, television, office automation equipment and measuring instruments.

GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Contacts</td>
<td>2 to 15</td>
</tr>
<tr>
<td>Contact Spacing</td>
<td>1.25mm (.049”), single row</td>
</tr>
<tr>
<td>Current Rating</td>
<td>AC/DC 1 Amp per contact</td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage</td>
<td>500 VAC r.m.s. (for one minute)</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>100 megohms min.</td>
</tr>
<tr>
<td>Contact Resistance</td>
<td>20 milliohms max.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +70°C</td>
</tr>
<tr>
<td>Applicable PCB Thickness</td>
<td>0.6 to 1.2mm (.024 to .047”)</td>
</tr>
<tr>
<td>Applicable Wire</td>
<td>#32 to #28 AWG (stranded)</td>
</tr>
<tr>
<td>Voltage Rating</td>
<td>AC/DC 200V</td>
</tr>
</tbody>
</table>

MATERIALS AND FINISHES*

<table>
<thead>
<tr>
<th>Description</th>
<th>Materials/Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulator</td>
<td>Through hole pin header and socket housing: 6-6 Nylon (UL94V-0, Light Brown)</td>
</tr>
<tr>
<td></td>
<td>SMT pin header: PPS (UL94V-0, Light Gray)</td>
</tr>
<tr>
<td>Pin Contact</td>
<td>Brass/Tin plating</td>
</tr>
<tr>
<td>Socket Contact</td>
<td>Phosphor Bronze/Tin plating</td>
</tr>
<tr>
<td>Hold-down</td>
<td>Phosphor Bronze/Tin-Lead plating (SMT only)</td>
</tr>
</tbody>
</table>

* Please consult JAE for verification of product availability.

Dimensions in mm (inches).
**IL-Z SERIES CONNECTORS**

1.25mm (.049") Contact Spacing, PCB-to-Cable (Crimp Type) Connectors

ORDERING INFORMATION

- **Pin Header (SMT Type)**
  - **IL-Z-**
  - **P**
  - **L**
  - **SMTY**
  - **E**
  - **R1500**
  - Series
  - No. of Contacts
  - 2 to 15
  - Contact Type
  - P – Pin
  - Contact Arrangement
  - S – Single Row
  - Pitch
  - 1.25mm (.049")
  - Termination
  - L – Right Angle
  - Mounting Type
  - Surface Mount Type
  - Lead Free Version
  - Embossed Tape
  - 1,500 pcs/reel

- **Socket Housing**
  - **IL-Z-**
  - **S**
  - **S**
  - **125-C3**
  - Series
  - No. of Contacts
  - 2 to 15
  - Contact Type
  - P – Pin
  - Contact Arrangement
  - S – Single Row
  - Pitch
  - 1.25mm (.049")
  - Termination
  - L – Right Angle
  - Mounting Type
  - Surface Mount Type
  - Lead Free Version
  - Embossed Tape
  - 1,500 pcs/reel

- **Pin Header (Through Hole Type)**
  - **IL-Z-**
  - **S**
  - **125**
  - **3**
  - **E**
  - Series
  - No. of Contacts
  - 2 to 15
  - Contact Type
  - P – Pin
  - Contact Arrangement
  - S – Single Row
  - Pitch
  - 1.25mm (.049")
  - Termination
  - T – Straight Through Hole
  - C – Crimp Contact
  - L – Right Angle Through Hole
  - Pin Header
  - PCB Thickness: 0.6mm (.024") – 1.2mm (.047")
  - Socket
  - Applicable Wire: AWG #28, #30, #32
  - Pin Header
  - Solder Post Length:
  - E – 1.7mm (.067”)
  - Lead Free Version

- **Applicable Wire**
  - Wire Size (AWG) | Insulation Outer Diameter
  - #32 - #30 | 0.5mm to 0.8mm (.020" to .031”)
  - #28 | 0.7mm to 1.0mm (.028” to .039”)

- **Tooling**
  - **Description** | **Part Number**
  - Semi-Automatic Crimping Machine | Applicator | 350-IL-Z-2
  - Press | CP215-4B
  - Hand Crimping Tool | CT150-C-ILZ
  - Contact Insertion Tool | IT2051-ILZ
  - Contact Extraction Tool | ET-ILZ

(Note: Contacts 15,000 pcs per reel)

**Socket Contact (Crimp Type)**
Part Number: IL-Z-C3-A-15000

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* Please consult JAE for verification of product availability.
Dimensions and specifications subject to change without notice.