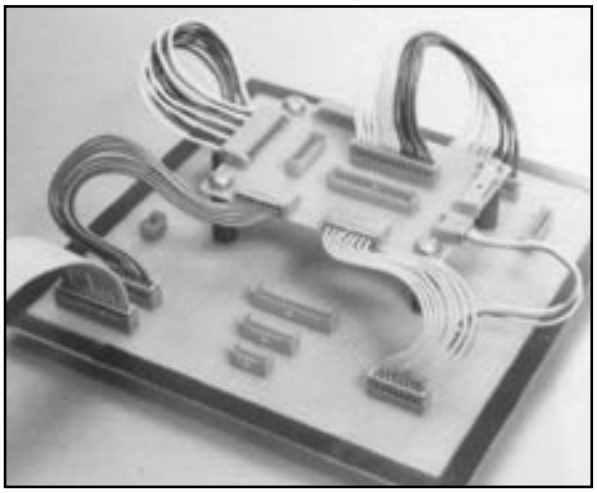
IL-Z SERIES CONNECTORS

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



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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.

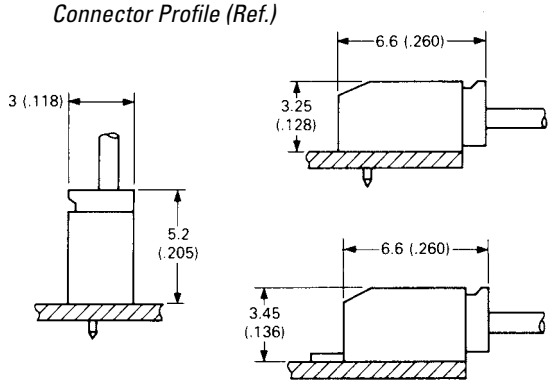
FEATURES

- 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

GENERAL SPECIFICATIONS

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

Connector Profile (Ref.)



MATERIALS AND FINISHES*

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

• Please consult JAE for verification of product availability.

Dimensions in mm (inches).

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
- 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

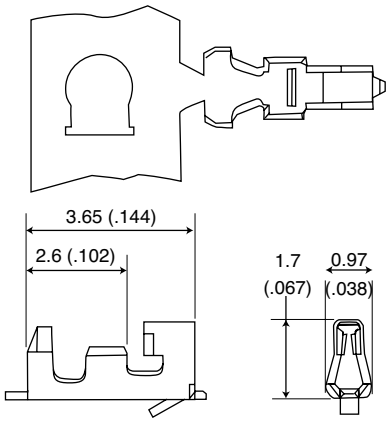
- Series
- No. of Contacts
  2 to 15
- Contact Type
  P – Pin
- Contact Arrangement
  S – Single Row
- Pitch
  1.25mm (.049")
- Termination
  T – Straight Through Hole C – Crimp Contact
  L – Right Angle Through Hole
- Pin Header
  PCB Thickness: 0.6mm (.024") – 1.2mm (.047")
- Socket
  Applicable Wire: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

• Socket Housing

IL - Z – ** S – S 125 – C3

- Series
- No. of Contacts
  2 to 15
- Contact Type
- Contact Arrangement
  S – Single Row
- Pitch
  1.25mm (.049")
- Termination
  C3 – Crimp Contact

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



(Note: Contacts 15,000 pcs per reel)

• 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	

• Please consult JAE for verification of product availability.

Dimensions and specifications subject to change without notice.