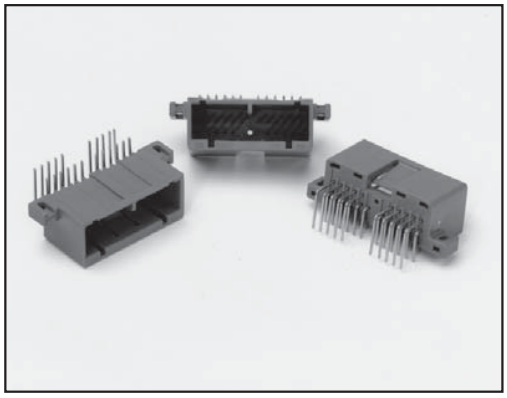
# IL-AG7 SERIES AUTOMOTIVE CONNECTORS

## 2.5mm (.098") Contact Spacing, 025 Crimp Contacts, PCB-to-Cable

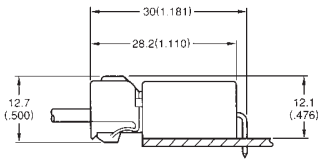


### FEATURES

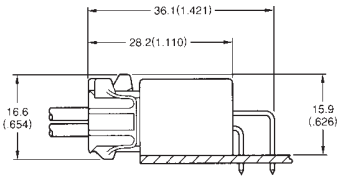
- Designed for automotive instrument panel applications
- Mechanical lock assures positive mating
- Unique housing configuration helps prevent mismating
- Double locking mechanism prevents dislodging of contacts
- IL-AG5 is used for socket side

*Connector Profile (Ref.)*

**SINGLE ROW TYPE**




**DOUBLE ROW TYPE**




### GENERAL SPECIFICATIONS

| | |
|---|---|
| Number of Contacts | 5, 10 (single row)<br>14, 22, 30 (double row)<br>16 (straight only) |
| Contact Spacing | 2.5mm (.098") |
| Current Rating | 3 Amp per contact |
| Dielectric Withstanding Voltage | 1000 VAC r.m.s. (for one minute) |
| Insulation Resistance | 100 megohms min. |
| Contact Resistance | 10 milliohms max. |
| Operating Temperature | -40°C to +85°C |
| Applicable PCB Thickness | 1.6 to 2.4mm (.063" to .094") |

***Applicable Wire (Stranded)***

| Wire Type JIS | AV, AVS, AVSS | AVS, AVSS |
|---|---|---|
| AWG | #22-#20 | #18 |
| Conductor Cross Section Area | 0.3 to 0.5mm$^2$ | 0.85mm$^2$ |
| Insulation Outer Diameter | 1.4 to 2.4mm (.055 to .094") | |

### MATERIALS AND FINISHES*

| Description | Materials/Finishes |
|---|---|
| Insulator | PBT, Yellow (Green or Light Blue for polarized version) |
| Pin Contact | Brass/Tin Plating |
| Socket Contact | Phosphor Bronze /Tin Plating |

Note: The standard finish of contacts is tin plating.
Gold plating is available as an option. Consult JAE for details.

### ORDERING INFORMATION

IL-AG7 – ** * * – * 3 * * – **

Series
No. of Contacts
Single Row – 5, 10
Double Row – 14, 22, 30
Contact Type
P – Pin S – Socket
Modification Code
K – Polarized Version, 5
Blank – Standard type
Contact Layout
S – Single Row D – Double Row
Contact Pitch
3 – 2.5mm (.098")
Termination
L – Right Angle Through Hole
Applicable PCB Thickness (pin header)
2 – 1.6mm (.063")
Insulator Color
Blank – Green
LB – Light Blue (For polarized version)

• Please consult JAE for verification of product availability.

Dimensions in mm (inches).