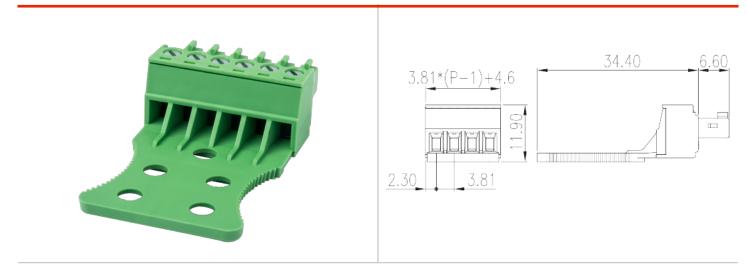


# EC381L-XXP

PCB Terminal Blocks > PCB Connector-Plug

Date:2025-11-04



The web catalog is for reference only. Dinkle remains the right of product modification and engineering change of the design.

The final product is made according to engineering drawing.

#### **Product Description**

Pitch: 3.81mm, M2, 300V, 8A

#### General information

| Short description   | PCB Connector – Plug, Screw Connection |
|---------------------|--|
| Category            | PCB Terminal Blocks                    |
| Pitch (mm)          | 3.81                                   |
| Color               | Green(default)                         |
| Connection method   | Screw Connection                       |
| Type of locking     | With lock flanget                      |
| Length (mm)         | 3.81*(P-1)+4.60                        |
| Width (mm)          | 11.9                                   |
| Height (mm)         | 41                                     |
| Number of poles     | 02~09P                                 |
| Number of positions | 02~09P                                 |
|                     |  |

#### Material information

| Insulation material                          | PA |
|--|----|
| Insulation material group                    | I  |
| Flame retardant rating , compliant with UL94 | V0 |



| Insulation resistance   | $\Box 500 M\Omega$ at DC 500V |
|---|-------------------------------|
| Conductor material  | COPPER ALLOY                  |
| Plating of conductor surface  | Tin Plated                    |
| Connection data-IEC   |                               |
| Rated voltage (V)   | 320                           |
| Rated current (A)   | 14                            |
| Rated voltage (II/2)(V)   | 320                           |
| Rated voltage (III/2) (V)   | 160                           |
| Rated voltage (III/3)(V)  | 160                           |
| Rated impulse voltage (II/2)(KV)  | 2.5                           |
| Rated impulse voltage (III/2)(KV)   | 2.5                           |
| Rated impulse voltage (III/3)(KV)   | 2.5                           |
| Conductor cross section solid. min (mm²)  | 0.2                           |
| Conductor cross section solid.max (mm²)   | 1.5                           |
| Conductor cross section stranded. min (mm²)                                     | 0.2                           |
| Conductor cross section stranded. max (mm²)                                     | 1.5                           |
| Conductor cross section flexible, with min ferrule without plastic sleeve (mm²) | 0.25                          |
| Conductor cross section flexible, with max ferrule without plastic sleeve (mm²) | 1.5                           |
| Conductor cross section flexible, with min ferrule with plastic sleeve (mm²)    | 0.25                          |
| Conductor cross section flexible, with max ferrule with plastic sleeve (mm²)    | 1                             |
| 2 conductors with same cross section, stranded, min (mm²)                       | 0.5                           |
| 2 conductors with same cross section, stranded, max (mm²)                       | 0.5                           |
| Slotted screwdriver size (Blade thickness x Width)(mm)                          | 0.5X3.0                       |
| Philips screwdriver size  | 0.5X3.0                       |
| Rated torque (N.m)  | 0.2                           |
| Stripping Length (mm)   | 6~7                           |
| Connection data-UL  |                               |
| Rated voltage (UL/CUL Group B)(V)   | 300                           |
| Rated current (UL/CUL Group B)(A)   | 8                             |
| Min. solid wire connection (AWG) acc. to UL/CUL                                 | 28                            |

| Max. solid wire connection AWG acc. to UL/CUL    | 14 |
|--|----|
| Min. stranded wire connection AWG acc. to UL/CUL | 28 |
| Max. stranded wire connection AWG acc. to UL/CUL | 14 |

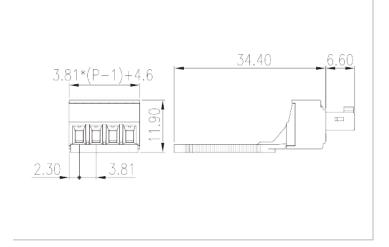
## Environment & Safety

| Back of the hand protection (YES or NO) | YES |
|---|-----|
| Finger protection (YES or NO)           | YES |
| Operating temperature. max (°C)         | -40 |
| Operating temperature. min (°C)         | 120 |

### **VDE** Approval

| Wire Range (mm²)  | 0.2~1.5 |
|-------------------|---------|
| Rated voltage (V) | 320     |
| Rated current (A) | 14      |

### Drawings



## **Approvals**



