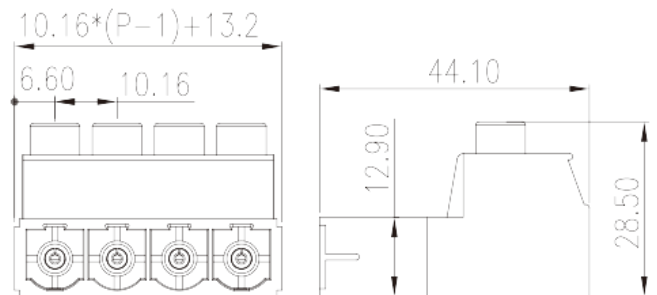
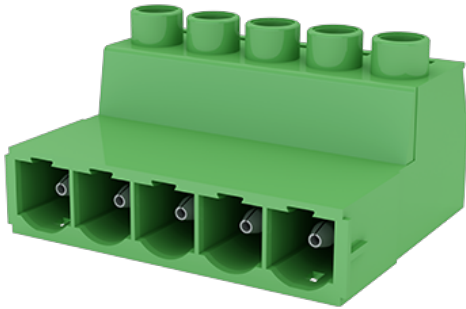


# ECSH116V-XXP

PCB Terminal Blocks &gt; PCB Connector-Socket

Date:2025-09-09



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: 10.16mm, M4, 600V, 51A

## General information

|                     |  |
|---------------------|--|
| Short description   | PCB Connector – Socket, Screw Connection |
| Category            | PCB Connector – Socket                   |
| Pitch (mm)          | 10.16                                    |
| Color               | Green (default)                          |
| Connection method   | Screw Connection                         |
| Type of locking     | Without                                  |
| Length (mm)         | $10.16 \times (P-1) + 13.2$              |
| Width (mm)          | 44.1                                     |
| Height (mm)         | 28.5                                     |
| Number of positions | 02P~10P                                  |
| Level               | Single level                             |

## Material information

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

|                              |                   |
|------------------------------|-------------------|
| Insulation resistance        | □500MΩ at DC 500V |
| Conductor material           | COPPER ALLOY      |
| Plating of conductor surface | Ag PLATED         |

## Connection data-IEC

|   |      |
|---|------|
| Rated voltage (V)   | 1000 |
| Rated current (A)   | 76   |
| Rated voltage (II/2)(V)   | 1000 |
| Rated voltage (III/2) (V)   | 1000 |
| Rated voltage (III/3)(V)  | 800  |
| Rated impulse voltage (II/2)(KV)  | 8    |
| Rated impulse voltage (III/2)(KV)   | 8    |
| Rated impulse voltage (III/3)(KV)   | 8    |
| Conductor cross section solid. min (mm <sup>2</sup> )   | 0.5  |
| Conductor cross section solid.max (mm <sup>2</sup> )  | 16   |
| Conductor cross section stranded. min (mm <sup>2</sup> )  | 0.5  |
| Conductor cross section stranded. max (mm <sup>2</sup> )  | 16   |
| Conductor cross section flexible, with min ferrule without plastic sleeve (mm <sup>2</sup> )              | 0.5  |
| Conductor cross section flexible, with max ferrule without plastic sleeve (mm <sup>2</sup> )              | 16   |
| Conductor cross section flexible, with min ferrule with plastic sleeve (mm <sup>2</sup> )                 | 0.5  |
| Conductor cross section flexible, with max ferrule with plastic sleeve (mm <sup>2</sup> )                 | 10   |
| 2 conductors with same cross section, solid, min (mm <sup>2</sup> )                                       | 0.5  |
| 2 conductors with same cross section, solid, max (mm <sup>2</sup> )                                       | 6    |
| 2 conductors with same cross section, stranded, min (mm <sup>2</sup> )                                    | 0.5  |
| 2 conductors with same cross section, stranded, max (mm <sup>2</sup> )                                    | 6    |
| 2 conductors with same cross section flexible, with min ferrule without plastic sleeve (mm <sup>2</sup> ) | 0.5  |
| 2 conductors with same cross section flexible, with max ferrule without plastic sleeve (mm <sup>2</sup> ) | 4    |
| 2 conductors with same cross section flexible, min twin ferrules with plastic sleeve (mm <sup>2</sup> )   | 0.5  |
| 2 conductors with same cross section flexible, max twin ferrules with plastic sleeve (mm <sup>2</sup> )   | 4    |

|  |       |
|--|-------|
| Screw thread   | M4    |
| Slotted screwdriver size (Blade thickness x Width)(mm) | 1x5.5 |
| Recommend tightening torque. min (N.m)                 | 1.2   |
| Recommend tightening torque. max (N.m)                 | 1.5   |
| Stripping Length (mm)                                  | 14~15 |

## Connection data-UL

|  |     |
|--|-----|
| Rated voltage (UL/CUL Group B)(V)                | 600 |
| Rated current (UL/CUL Group B)(A)                | 51  |
| Rated voltage (UL/CUL Group C)(V)                | 600 |
| Rated current (UL/CUL Group C)(A)                | 51  |
| Rated voltage (UL/CUL Group D)(V)                | 600 |
| Rated current (UL/CUL Group D)(A)                | 5   |
| Min. solid wire connection (AWG) acc. to UL/CUL  | 16  |
| Max. solid wire connection AWG acc. to UL/CUL    | 6   |
| Min. stranded wire connection AWG acc. to UL/CUL | 16  |
| Max. stranded wire connection AWG acc. to UL/CUL | 6   |

## Environment & Safety

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

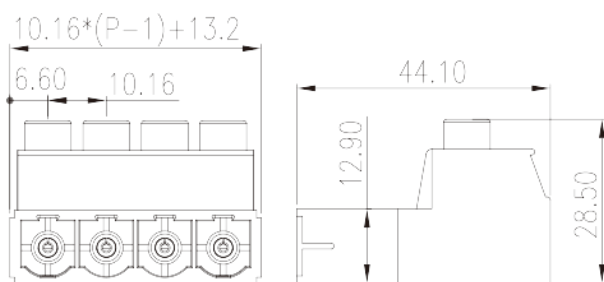
## UL Recognized

|                            |      |
|----------------------------|------|
| Wire Range (Group B)(AWG)  | 16~6 |
| Rated voltage (Group B)(V) | 600  |
| Rated current (Group B)(A) | 51   |
| Wire Range (Group C)(AWG)  | 16~6 |
| Rated voltage (Group C)(V) | 600  |
| Rated current (Group C)(A) | 51   |
| Wire Range (Group D)(AWG)  | 16~6 |
| Rated voltage (Group D)(V) | 600  |
| Rated current (Group D)(A) | 5    |

## CUL Recognized

|                            |      |
|----------------------------|------|
| Wire Range (Group B)(AWG)  | 16~6 |
| Rated voltage (Group B)(V) | 600  |
| Rated current (Group B)(A) | 51   |
| Wire Range (Group C)(AWG)  | 16~6 |
| Rated voltage (Group C)(V) | 600  |
| Rated current (Group C)(A) | 51   |
| Wire Range (Group D)(AWG)  | 16~6 |
| Rated voltage (Group D)(V) | 600  |
| Rated current (Group D)(A) | 5    |

## Drawings



## Approvals

