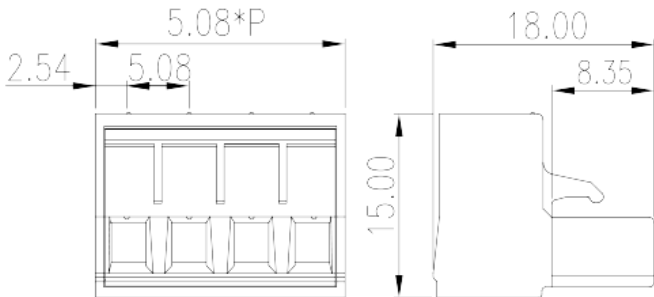


# 2ESDV-XXP

PCB Terminal Blocks > PCB Connector-Plug

Date:2024-02-21Version:1.2



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 : 5.08 mm, 300V, 15A

## General information

|                     |                                      |
|---------------------|--------------------------------------|
| Short description   | PCB Connector Plug, Screw Connection |
| Category            | PCB Connector – Plug                 |
| Pitch (mm)          | 5.08                                 |
| Color               | Green (default)                      |
| Connection method   | Screw Connection                     |
| Type of locking     | Without                              |
| Length (mm)         | 5.08*P                               |
| Width (mm)          | 18                                   |
| Height (mm)         | 15                                   |
| Number of positions | 02P~24P                              |
| Level               | Single level                         |

## Material information

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

|                              |                                     |
|------------------------------|-------------------------------------|
| Insulation resistance        | $\geq 500\text{M}\Omega$ at DC 500V |
| Conductor material           | COPPER ALLOY                        |
| Plating of conductor surface | Tin PLATED                          |

## Connection data-IEC

|                                                                                                           |         |
|-----------------------------------------------------------------------------------------------------------|---------|
| Rated voltage (V)                                                                                         | 600     |
| Rated current (A)                                                                                         | 18      |
| Rated voltage (II/2)(V)                                                                                   | 600     |
| Rated voltage (III/2) (V)                                                                                 | 320     |
| Rated voltage (III/3)(V)                                                                                  | 250     |
| Rated impulse voltage (II/2)(KV)                                                                          | 4       |
| Rated impulse voltage (III/2)(KV)                                                                         | 4       |
| Rated impulse voltage (III/3)(KV)                                                                         | 4       |
| Conductor cross section solid. min (mm <sup>2</sup> )                                                     | 0.2     |
| Conductor cross section solid.max (mm <sup>2</sup> )                                                      | 4       |
| Conductor cross section stranded. min (mm <sup>2</sup> )                                                  | 0.2     |
| Conductor cross section stranded. max (mm <sup>2</sup> )                                                  | 2.5     |
| Conductor cross section flexible, with min ferrule without plastic sleeve (mm <sup>2</sup> )              | 0.25    |
| Conductor cross section flexible, with max ferrule without plastic sleeve (mm <sup>2</sup> )              | 2.5     |
| Conductor cross section flexible, with min ferrule with plastic sleeve (mm <sup>2</sup> )                 | 0.25    |
| Conductor cross section flexible, with max ferrule with plastic sleeve (mm <sup>2</sup> )                 | 2.5     |
| 2 conductors with same cross section, solid, max (mm <sup>2</sup> )                                       | 1.5     |
| 2 conductors with same cross section, stranded, max (mm <sup>2</sup> )                                    | 1.5     |
| 2 conductors with same cross section flexible, with min ferrule without plastic sleeve (mm <sup>2</sup> ) | 0.25    |
| 2 conductors with same cross section flexible, with max ferrule without plastic sleeve (mm <sup>2</sup> ) | 1       |
| 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> )   | 1.5     |
| Screw thread                                                                                              | M2.5    |
| Slotted screwdriver size (Blade thickness x Width)(mm)                                                    | 0.6x3.5 |
| Philips screwdriver size                                                                                  | PH1     |

|                       |     |
|-----------------------|-----|
| Rated torque (N.m)    | 0.5 |
| Stripping Length (mm) | 7~8 |

## Connection data-UL

|                                                  |     |
|--------------------------------------------------|-----|
| Rated voltage (UL/CUL Group B)(V)                | 300 |
| Rated current (UL/CUL Group B)(A)                | 15  |
| Rated voltage (UL/CUL Group D)(V)                | 300 |
| Rated current (UL/CUL Group D)(A)                | 10  |
| Min. solid wire connection (AWG) acc. to UL/CUL  | 28  |
| Max. solid wire connection AWG acc. to UL/CUL    | 12  |
| Min. stranded wire connection AWG acc. to UL/CUL | 30  |
| Max. stranded wire connection AWG acc. to UL/CUL | 12  |

## Environment & Safety

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

## UL Recognized

|                            |                         |
|----------------------------|-------------------------|
| Wire Range (Group B)(AWG)  | 28~12(sol) ; 30~12(str) |
| Rated voltage (Group B)(V) | 300                     |
| Rated current (Group B)(A) | 15                      |
| Wire Range (Group D)(AWG)  | 28~12(sol) ; 30~12(str) |
| Rated voltage (Group D)(V) | 300                     |
| Rated current (Group D)(A) | 10                      |

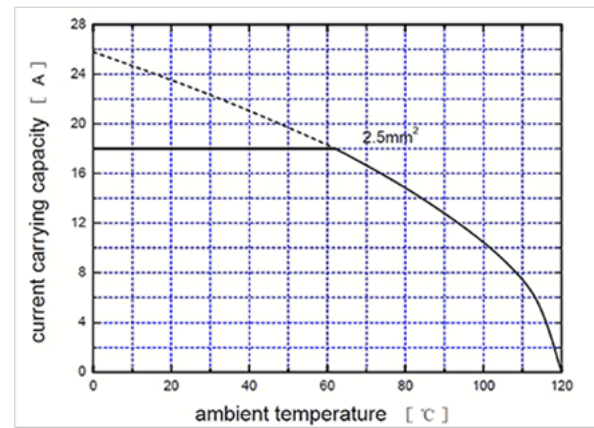
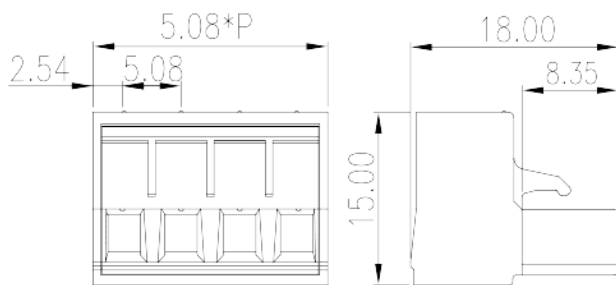
## CUL Recognized

|                            |                         |
|----------------------------|-------------------------|
| Wire Range (Group B)(AWG)  | 28~12(sol) ; 30~12(str) |
| Rated voltage (Group B)(V) | 300                     |
| Rated current (Group B)(A) | 15                      |
| Wire Ranget (Group D)(AWG) | 28~12(sol) ; 30~12(str) |
| Rated voltage (Group D)(V) | 300                     |
| Rated current (Group D)(A) | 10                      |

## VDE Approval

|                               |                         |
|-------------------------------|-------------------------|
| Wire Range (mm <sup>2</sup> ) | 0.2~4(sol)/0.2~2.5(str) |
| Rated voltage (V)             | 600                     |
| Rated current (A)             | 18                      |

## Drawings



## Approvals

