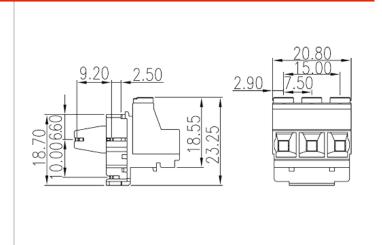


# 7ES-3PL

PCB Terminal Blocks > PCB Connector-Plug

Date:2025-11-04Version:1.1





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: 7.50 mm, 300V, 20A

#### General information

Short description	PCB Connector – Plug, Screw Connection
Category	PCB Connector – Plug
Pitch (mm)	7.50
Color	Green (default)
Connection method	Screw Connection
Type of locking	Without
Soldering method	Wave soldering
Length (mm)	20.8
Width (mm)	27.95
Height (mm)	23.25
Pin demensions (Thickness x Width)(mm)	0.8x1.0
PCB hole diameter (mm)	1.6
Number of positions	03P
Level	Single level

#### Material information



Insulation material	PA
Insulation material group	I
Flame retardant rating , compliant with UL94	VO
Insulation resistance	□500MΩ at DC 500V
Conductor material	COPPER ALLOY
Plating of conductor surface	Tin PLATED
Connection data-IEC	
Rated voltage (V)	630
Data di suggia di (A)	24

Rated voltage (V)	630
Rated current (A)	24
Rated voltage (II/2)(V)	1000
Rated voltage (III/2) (V)	630
Rated voltage (III/3)(V)	600
Rated impulse voltage (II/2)(KV)	6
Rated impulse voltage (III/2)(KV)	6
Rated impulse voltage (III/3)(KV)	6
Conductor cross section solid. min (mm²)	0.2
Conductor cross section solid.max (mm²)	2.5
Conductor cross section stranded. min (mm²)	0.2
Conductor cross section stranded. max (mm²)	2.5
Conductor cross section flexible, with min ferrule without plastic sleeve (mm²)	0.25
Conductor cross section flexible, with max ferrule without plastic sleeve (mm²)	2.5
Conductor cross section flexible, with min ferrule with plastic sleeve (mm²)	0.25
Conductor cross section flexible, with max ferrule with plastic sleeve (mm²)	2.5
2 conductors with same cross section, solid, min (mm²)	0.2
2 conductors with same cross section, solid, max (mm²)	1
2 conductors with same cross section, stranded, min (mm²)	0.2
2 conductors with same cross section, stranded, max (mm²)	1
2 conductors with same cross section flexible, with min ferrule without plastic sleeve (mm²)	0.25
2 conductors with same cross section flexible, with max ferrule without plastic sleeve (mm²)	1

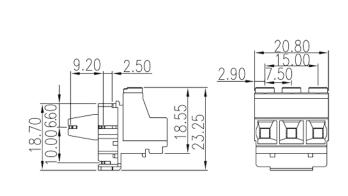
2 conductors with same cross section flexible, min twin ferrules with plastic sleeve (mm²)	0.25	
2 conductors with same cross section flexible, max twin ferrules with plastic sleeve (mm²)	1	
Screw thread	M2.5	
Slotted screwdriver size (Blade thickness x Width)(mm)	0.6x3.5	
Philips screwdriver size	PH1	
Rated torque (N.m)	0.4	
Stripping Length (mm)	7~8	
Connection data-UL		
Rated voltage (UL/CUL Group B)(V)	300	
Rated current (UL/CUL Group B)(A)	20	
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	30	
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		
Finger protection (YES or NO)	YES	
Operating temperature. max (°C)	120	
Operating temperature. min (°C)	-40	
UL Recognized		
UL Recognized Wire Range (Group B)(AWG)	30~12	
	30~12 300	
Wire Range (Group B)(AWG)		
Wire Range (Group B)(AWG)  Rated voltage (Group B)(V)	300	
Wire Range (Group B)(AWG)  Rated voltage (Group B)(V)  Rated current (Group B)(A)	300 20	
Wire Range (Group B)(AWG)  Rated voltage (Group B)(V)  Rated current (Group B)(A)  Wire Range (Group C)(AWG)	300 20 30~12	
Wire Range (Group B)(AWG)  Rated voltage (Group B)(V)  Rated current (Group B)(A)  Wire Range (Group C)(AWG)  Rated voltage (Group C)(V)	300 20 30~12 300	
Wire Range (Group B)(AWG)  Rated voltage (Group B)(V)  Rated current (Group B)(A)  Wire Range (Group C)(AWG)  Rated voltage (Group C)(V)  Rated current (Group C)(A)	300 20 30~12 300 20	

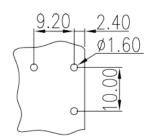


## **CUL** Recognized

Wire Range (Group B)(AWG)	30~12
Rated voltage (Group B)(V)	300
Rated current (Group B)(A)	20
Wire Range (Group C)(AWG)	30~12
Rated voltage (Group C)(V)	300
Rated current (Group C)(A)	20
Wire Ranget (Group D)(AWG)	30~12
Rated voltage (Group D)(V)	600
Rated current (Group D)(A)	5

## Drawings





## Approvals





