

#### **OEM Automatic Ltd**

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# **CONTACLIP**

### **PLUG IN DIN RAIL - PK-TS**

13867.1 PK-TS/5.08/21-F, 21 Way flanged pluggable scoket, TS32/TS35

- TS15/25 or TS32/35 versions
- 2 pole to 24 pole
- · Screw flange options
- · Coding pins
- Polyamide 6.6-V-0



#### PRODUCT DESCRIPTION

The pluggable PK-TS connection system was designed to meet the increasing demands for a quick modular way of connecting and disconnecting parts of electrical systems together.

For example; - if you have components, such as HMI's on a front panel, lid or door of an enclosure the PK-TS can be used to quickly disconnect from the main controls inside the panel.

The wiring which connects the two parts is fed out of one panel with the PK-TS base element. The corresponding cables are placed on their counterpart in the second panel. The PK-TS base element is attached to the DIN rail using mounting feet which are fitted either with a TS15/35 or TS32/35 combi-foot for mounting on DIN rail. There are various options for the type of wire connection for the plug-in part (push-in, clamping yoke or eccentric). The PK-TS elements are available with 2 to 24 poles and with a screw flange. The PK-TS base elements with a screw flange use this flange to connect to the pluggable wire-connection component. This protects them from accidental loosening. Wires can be connected from different directions, depending on the selection of the PK-TS combination and counterpart. To avoid incorrect mating when using several PK-TS in one panel, both the PK-TS and its counterpart can be coded without loss of poles by using our proven CONTA-CON coding system.

### **TECHNICAL DATA**

### **GENERAL DATA**

Туре	Plug-in connection system
Pitch	5.08 mm
Colour	Green
Number of poles	21
Approvals	UL, cUL, VDE

### **RATINGS**

Rated current	10 A
Rated voltage	250 V
Rated cross section	2.5 mm²
Rated impulse voltage	4 kV
Overvoltage category	III

DIMENSIONS           Length         42.5 mm           Width         118 mm           Width left         8.2 mm           Width right         8.2 mm           Height TS 32         40.5 mm           Height TS 357.5         35.5 mm           Length of pin header         20.6 mm           CONNECTION DATA         ***Cow**           Connector typeiprinciple         Screw           Consection single wire from         0.2 mm²           Cross section single wire from         0.2 mm²           Cross section stranded wire from         0.2 mm²           Cross section stranded wire form         0.2 mm²           Cross section stranded wire form         0.25 mm²           Cross section stranded wire form         0.25 mm²           Rated wire cross section from (AWG)         12           Rated wire cross section from (AWG)         28           Stripping length         6 mm           Screw size         M 3           Torque         0.5           MATERIALS           Housing material         Poyamide 8.6           Flammability class         U.94-V0           Operating temperature from         -00°C           Operating temperature form         -00°C	Contamination degree	3
Width         118 mm           Width right         8.2 mm           Width right         8.2 mm           Height TS 32         40.5 mm           Height TS 38/7.5         35.5 mm           Length of pin header         20.6 mm           CONNECTION DATA           Connector type/principle         Screw           Connector version         Fixed           Cross section single wire from         0.2 mm²           Cross section single wire from         0.2 mm²           Cross section stranded wire from         0.2 mm²           Cross section stranded with ferrule from         0.25 mm²           Cross section stranded with ferrule from         0.25 mm²           Rated wire cross section to (AWG)         12           Rated wire cross section from (AWG)         28           Stripping length         6 mm           Screw size         M 3           Torque         0.5           MATERIALS           Housing material         Polyamide 6.6           Flammability class         U_94-V0           Operating temperature from         -30 °C           Operating temperature for         105 °C           Contact flag         Copper alloy           Borse	DIMENSIONS	
Width left         8.2 mm           Width right         8.2 mm           Height TS 32         40.5 mm           Height TS 397.5         35.5 mm           Connector pin header         20.6 mm           CONNECTION DATA         Connector type/principle         Screw           Connector version         Fixed           Cross section single wire from         0.2 mm²           Cross section single wire to         4 mm²           Cross section stranded wire from         0.2 mm²           Cross section stranded with ferule to         2.5 mm²           Cross section stranded with ferule from         0.25 mm²           Rated wire cross section to (AWG)         12           Rated wire cross section from (AWG)         28           Stripping length         6 mm           Screw size         M 3           Torque         0.5           MATERIALS           Housing material         Polyamide 6.6           Flammability class         UL94-VD           Operating temperature from         -30 °C           Operating temperature to         105 °C           Contact flag         Copper alloy           Screw material         Steel           Clamp material <t< th=""><th>Length</th><th>42.5 mm</th></t<>	Length	42.5 mm
Width right         8.2 mm           Height TS 32         40.5 mm           Length of pin header         20.6 mm           CONNECTION DATA           Connector type/principle         Screw           Connector version         Fixed           Cross section single wire from         0.2 mm²           Cross section single wire to         4 mm²           Cross section stranded wire from         0.2 mm²           Cross section stranded with ferrule to         2.5 mm²           Cross section stranded with ferrule from         0.25 mm²           Rated wire cross section from (AWG)         12           Rated wire cross section from (AWG)         28           Stripping length         6 mm           Screw size         M 3           MATERIALS           Housing material         Polyamide 6.6           Flammability class         UL94-V0           Operating temperature from         -30 °C           Operating temperature from         -30 °C           Operating temperature to         105 °C           Contact flag         Copper alloy           Screw material         Steel           Clamp material         Brass	Width	118 mm
Height TS 32 40.5 mm  Length of pin header 20.6 mm  CONNECTION DATA  Connector type/principle Screw  Connector version Fixed  Cross section single wire from 0.2 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded wire from 0.25 mm²  Cross section stranded with ferrule to 2.5 mm²  Cross section stranded with ferrule from 0.25 mm²  Rated wire cross section to (AWG) 12  Rated wire cross section from (AWG) 28  Stripping length 6 mm  Screw size M.3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Contact flag Copper alloy  Screw material Brass	Width left	8.2 mm
Height TS 357.5     35.5 mm       Length of pin header     20.6 mm       CONNECTION DATA       Connector type/principle     Screw       Connector version     Fixed       Cross section single wire from     0.2 mm²       Cross section single wire to     4 mm²       Cross section stranded wire from     0.2 mm²       Cross section stranded with ferrule to     2.5 mm²       Cross section stranded with ferrule from     0.25 mm²       Rated wire cross section to (AWG)     12       Rated wire cross section from (AWG)     28       Stripping length     6 mm       Screw size     M 3       Torque     0.5       MATERIALS       Housing material     Polyamide 6.6       Flammability class     UL94-V0       Operating temperature from     -30 °C       Operating temperature from     -30 °C       Contact flag     Copper alloy       Screw material     Steel       Clamp material     Brass	Width right	8.2 mm
Length of pin header     20.6 mm       CONNECTION DATA       Connector type/principle     Screw       Connector version     Fixed       Cross section single wire from     0.2 mm²       Cross section stranded wire from     0.2 mm²       Cross section stranded with ferrule to     2.5 mm²       Cross section stranded with ferrule from     0.25 mm²       Cross section stranded with ferrule from     0.25 mm²       Rated wire cross section to (AWG)     12       Rated wire cross section from (AWG)     28       Stripping length     6 mm       Screw size     M 3       Torque     0.5       MATERIALS       Housing material     Polyamide 6.6       Flammability class     UL94-V0       Operating temperature from     -30 °C       Operating temperature to     105 °C       Contact flag     Copper alloy       Screw material     Brass	Height TS 32	40.5 mm
CONNECTION DATA  Connector type/principle Connector version Fixed  Conses section single wire from 0.2 mm² Cross section stranded wire from 0.2 mm² Cross section stranded wire from 0.2 mm² Cross section stranded with ferrule to 2.5 mm² Cross section stranded with ferrule to 2.5 mm² Cross section stranded with ferrule from 0.25 mm² Cross section stranded with ferrule from 0.25 mm² Rated wire cross section to (AWG) 12 Rated wire cross section from (AWG) 28 Stripping length 6 mm Screw size M3 Torque 0.5  MATERIALS  Housing material Polyamide 6.6 Flammability class UL94-V0 Operating temperature from -30 °C Contact flag Copper alloy Screw material Steel Clamp material Brass	Height TS 35/7.5	35.5 mm
Connector type/principle     Screw       Connector version     Fixed       Cross section single wire from     0.2 mm²       Cross section stranded wire from     0.2 mm²       Cross section stranded with ferrule to     2.5 mm²       Cross section stranded with ferrule from     0.25 mm²       Cross section stranded with ferrule from     0.25 mm²       Rated wire cross section to (AWG)     12       Rated wire cross section from (AWG)     28       Stripping length     6 mm       Screw size     M 3       Torque     0.5       MATERIALS       Housing material     Polyamide 6.6       Flammability class     UL94-V0       Operating temperature from     -30 °C       Operating temperature to     105 °C       Contact flag     Copper alloy       Screw material     Steel       Clamp material     Brass	Length of pin header	20.6 mm
Connector version Fixed  Cross section single wire from 0.2 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded with ferrule to 2.5 mm²  Cross section stranded wire to 0.25 mm²  Cross section stranded with ferrule from 0.25 mm²  Rated wire cross section to (AWG) 12  Rated wire cross section from (AWG) 28  Stripping length 6 mm  Screw size M3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	CONNECTION DATA	
Cross section single wire from 4 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded with ferrule to 2.5 mm²  Cross section stranded wire to 0.25 mm²  Cross section stranded with ferrule from 0.25 mm²  Rated wire cross section to (AWG) 12  Rated wire cross section from (AWG) 28  Stripping length 6 mm  Screw size M3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Connector type/principle	Screw
Cross section single wire to 4 mm²  Cross section stranded wire from 0.2 mm²  Cross section stranded with ferrule to 2.5 mm²  Cross section stranded with ferrule from 0.25 mm²  Cross section stranded with ferrule from 0.25 mm²  Rated wire cross section to (AWG) 12  Rated wire cross section from (AWG) 28  Stripping length 6 mm  Screw size M 3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Operating temperature to 105 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Connector version	Fixed
Cross section stranded wire from 0.2 mm² Cross section stranded with ferrule to 2.5 mm² Cross section stranded wire to 2.5 mm² Cross section stranded with ferrule from 0.25 mm² Rated wire cross section to (AWG) 12 Rated wire cross section from (AWG) 28 Stripping length 6 mm Screw size M3 Torque 0.5  MATERIALS Housing material Polyamide 6.6 Flammability class UL94-V0 Operating temperature from -30 °C Operating temperature to 105 °C Contact flag Copper alloy Screw material Steel Clamp material Brass	Cross section single wire from	0.2 mm²
Cross section stranded with ferrule to  Cross section stranded wire to  Cross section stranded with ferrule from  0.25 mm²  Rated wire cross section to (AWG)  Rated wire cross section from (AWG)  Stripping length  6 mm  Screw size  M 3  Torque  0.5  MATERIALS  Housing material  Polyamide 6.6  Flammability class  UL94-V0  Operating temperature from  -30 °C  Contact flag  Copper alloy  Screw material  Steel  Clamp material  Prove Street  Steel  Clamp material  Possible Street  Steel  Clamp material  Possible Street  Steel	Cross section single wire to	4 mm²
Cross section stranded wire to  Cross section stranded with ferrule from  Rated wire cross section to (AWG)  Rated wire cross section from (AWG)  Stripping length  6 mm  Screw size  M 3  Torque  0.5  MATERIALS  Housing material  Polyamide 6.6  Flammability class  UL94-V0  Operating temperature from  -30 °C  Contact flag  Copper alloy  Screw material  Steel  Clamp material  D.25 mm²  28  And  Command  Copper alloy  Brass	Cross section stranded wire from	0.2 mm²
Cross section stranded with ferrule from 0.25 mm²  Rated wire cross section to (AWG) 12  Rated wire cross section from (AWG) 28  Stripping length 6 mm  Screw size M 3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Cross section stranded with ferrule to	2.5 mm²
Rated wire cross section to (AWG)  Rated wire cross section from (AWG)  Stripping length  6 mm  Screw size  M 3  Torque  0.5  MATERIALS  Housing material  Polyamide 6.6  Flammability class  UL94-V0  Operating temperature from  -30 °C  Operating temperature to  105 °C  Contact flag  Copper alloy  Screw material  Brass	Cross section stranded wire to	2.5 mm <sup>2</sup>
Rated wire cross section from (AWG)  Stripping length  6 mm  Screw size  M 3  Torque  0.5  MATERIALS  Housing material  Polyamide 6.6  Flammability class  UL94-V0  Operating temperature from  -30 °C  Operating temperature to  105 °C  Contact flag  Copper alloy  Screw material  Steel  Clamp material  Brass	Cross section stranded with ferrule from	0.25 mm²
Stripping length 6 mm  Screw size M 3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Operating temperature to 105 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Rated wire cross section to (AWG)	12
Screw size M 3  Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Operating temperature to 105 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Rated wire cross section from (AWG)	28
Torque 0.5  MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Operating temperature to 105 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Stripping length	6 mm
MATERIALS  Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Operating temperature to 105 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Screw size	M 3
Housing material Polyamide 6.6  Flammability class UL94-V0  Operating temperature from -30 °C  Operating temperature to 105 °C  Contact flag Copper alloy  Screw material Steel  Clamp material Brass	Torque	0.5
Flammability class  Operating temperature from  -30 °C  Operating temperature to  105 °C  Contact flag  Copper alloy  Screw material  Steel  Clamp material  Brass	MATERIALS	
Operating temperature from -30 °C Operating temperature to 105 °C Contact flag Copper alloy Screw material Steel Clamp material Brass	Housing material	Polyamide 6.6
Operating temperature to     105 °C       Contact flag     Copper alloy       Screw material     Steel       Clamp material     Brass	Flammability class	UL94-V0
Contact flag  Copper alloy  Screw material  Steel  Clamp material  Brass	Operating temperature from	-30 °C
Screw material  Clamp material  Brass	Operating temperature to	105 °C
Clamp material Brass	Contact flag	Copper alloy
	Screw material	Steel
Flange insert Brass	Clamp material	Brass
	Flange insert	Brass

## **APPROVALS**

UL test standard	UL 1059
Rated voltage UL	300 V
Rated current UL	15 A
cUL test standard	C22.2 No 158
Rated voltage cUL	300 V
Rated current cUL	15 A
VDE test standard	DIN EN 61984
Rated voltage VDE	250 V
Rated current VDE	10 A
Plug-in cycles acc. to standard	100
Tariff code	85366990
Pack size	25
Weight	67.75 g
Angle of wire connection/contact	90° (vertically upwards)
Connection cycles acc. to standard	5
Country of origin	TN
Current creepage resistance	CTI 600
Glow wire flammability index (GWFI)	GWFI 850
Glow wire ignition temperature (GWIT)	GWIT 775
GWFI after-glow time	30 s
GWIT exposure time	5 s
Insulation resistance	1*10^13 Ω x cm



