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STL 1350

13911.4
STL 1350/2/3,50-V BK

- Widths from about 10.5 mm to 84 mm
- 3 to 24 Poles
- –30 °C up to 105 °C

PRODUCT DESCRIPTION

The STL 1350 series are straight (vertical) male pin header blocks designed for PCB-mounted connector applications under the CONTA-CON branding. They feature a 3.50 mm pitch between pins and are available in configurations ranging from 3 to 24 poles, offering widths from about 10.5 mm to 84 mm depending on pole count. The standard versions are in black polyamide 6.6 housing, with brass contact pins of 1 mm diameter. Electrical ratings include a rated current up to 8 A per pin at 125 V, and an impulse voltage rating of 2.5 kV, corresponding to Overvoltage Category III and Pollution Degree 3 standards. They tolerate harsh thermal conditions with operating temperatures from –30 °C up to 105 °C, glow-wire resistance ratings of GWFI 850 / GWIT 775 °C, and pass UL 94 V-0 for flame retardancy. All models have high insulation resistance (up to 1×10^{15} Ω·cm), and are approved under UL 1059, CSA 22.2 No. 158, and VDE per DIN EN 61984.
The STL 1350 header blocks are ideal for modular PCB-to-board or PCB-to-wire connector systems, especially where vertical plug-in connection is required, such as in DIN-rail device backplanes or plug-in instrumentation modules. Their compact row-block style and standardized 3.5 mm pitch make them suitable for use in control cabinets, sensor interface boards, industrial automation panels, instrumentation racks, and OEM modules where space efficiency is important. Their reliable insulation, reproducible plug-cycles, and approvals ensure they function well in industrial environments including machinery electronics, process control systems, or building automation. Additionally, the option to choose from multiple pole counts (3–24) gives design flexibility, simplifying wiring harness design and enabling scalable wiring solutions across diverse control and instrumentation architectures.

TECHNICAL DATA

GENERAL DATA

Type	Header
Pitch	3.5 mm
Colour	Black
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	8 A
Rated voltage	125 V
Rated impulse voltage	2.5 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	2.7 mm
Width	7 mm
Height	9 mm
Width left	1.75 mm
Width right	1.75 mm
Drillhole diameter	1.3 mm
Diameter of the connection pin	1 mm
Length of pin	3.5 mm

CONNECTION DATA

Connector type/principle	Pin header
Connector version	Fixed
Number of plugin rows	1

MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Contact pin	Brass

APPROVALS

UL test standard	UL 1059
Rated voltage UL	150 V
Rated current UL	9 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	150 V
Rated current cUL	9 A
VDE test standard	DIN EN 61984
Rated voltage VDE	125 V
Rated current VDE	8 A

Plug-in cycles acc. to standard	100
Recommended wave solder duration max	4 s
Recommended wave solder duration min	3 s
Recommended wave soldering temperature	265 °C

Tariff code	85366990
Pack size	50
Weight	0.2 g
Angle circuit board / contact	90° (vertically upwards)
Country of origin	QU
Current creepage resistance	CTI 175
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*10^15 Ω x cm