

STL 14011492.4
STL 140/2/5,00-H BK

- 5mm Pitch
- 10 A at 250 V
- Breakaway Strip format for customisation

**PRODUCT DESCRIPTION**

The STL-140 series consists of right-angle male pin headers, designed with a 5 mm (0.197") pitch and available in 2–6 pole configurations. Constructed from durable polyamide 6.6 housing, these headers feature 1.3 mm diameter pins on the connector side and accommodate standard 1.0 mm through-holes on the PCB end. Rated for up to 10 A at 250 V (10 A at 300 V pending), they support reliable mating with complementary tubular screw-clamp plugs (AK(Z)130/132 series). The breakaway strip format allows for effortless customisation, just snap off extra poles, while the right-angle design helps streamline board-to-panel transitions and maintain compact form factors.

STL-140 pin headers excel in industrial control systems, automation modules, and field-serviceable interface panels where robust plug-in connections are essential. The right-angle orientation enables optimal cable routing along the PCB edge, ideal for compact enclosures or DIN-rail mounted units. Engineers can choose precise pole counts (from 2 to 6) to match signal, power, or grounding needs, and the sturdy polyamide construction endures common industrial stresses. These headers, when paired with the appropriate screw-clamp plugs, deliver a modular, maintainable connection system well suited for rapid servicing and scalable expansions.

TECHNICAL DATA**GENERAL DATA**

Type	Header
Pitch	5 mm
Colour	Black
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	7 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	12.5 mm
Width	10 mm

Height	5.4 mm
Width left	2.5 mm
Width right	2.5 mm
Drillhole diameter	1.5 mm
Diameter of the connection pin	1.3 mm
Length of pin	3.4 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	300 V
Rated current UL	10 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	300 V
Rated current cUL	10 A
VDE test standard	DIN EN 61984
Rated voltage VDE	250 V
Rated current VDE	7 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	0.5 g
Angle circuit board / contact	0°/180° (horizontal)
Country of origin	QU
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	$1 \cdot 10^{13} \Omega \times \text{cm}$

