

STL 1570

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STL 1570/2/3,81-V-G GN

- 3.81 mm Pitch
- Up to 10 A at 160 V (VDE)
- 0.8 mm diameter, 3.4 mm length pin specifications



PRODUCT DESCRIPTION

The STL 1570 series is a fixed, double-row male pin header with a 3.81 mm pitch, available in pole counts ranging from 2 up to 20. Featuring a durable green PBT (polybutylene terephthalate) housing rated UL94-V0 and copper-alloy pins, these blocks support high-current PCB connections, up to 10 A at 160 V (VDE) or 300 V per UL/cUL certification. They offer excellent dielectric resilience (impulse withstand voltage of 2.5 kV, overvoltage category III, contamination degree 3), and are built to endure wave-soldering temperatures (~265 °C for 3–4 seconds). With operating limits between –30 °C to +105 °C and PCB pin specifications (0.8 mm diameter, 3.4 mm length), these headers are engineered for durability and reliability.

Engineers often use STL 1570 pin blocks in industrial automation and control panel systems to establish robust, modular interconnects between PCBs and field wiring or terminal modules. The 3.81 mm pitch aligns with standard European terminal blocks, facilitating seamless mating with compatible screw-clamp or spring-clamp female connectors. Their right-angle double-row design saves board space while supporting direct edge-mount transitions, ideal for compact enclosures or DIN-rail devices. Thanks to high current and voltage ratings plus UL/VDE approvals, these headers are well-suited for power distribution modules, PLC interfaces, and equipment where reliable mating cycles (≥ 100) and industrial-grade mechanical and electrical stability are essential.

TECHNICAL DATA

GENERAL DATA

Type	Header
Pitch	3.81 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	10 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	22.5 mm
Width	9.01 mm

Height	21.9 mm
Width left	2.6 mm
Width right	2.6 mm
Drillhole diameter	1.2 mm
Diameter of the connection pin	0.8 mm
Length of pin	3.4 mm

CONNECTION DATA

Connector type/principle	Pin header
Connector version	Fixed
Number of plugin rows	2

MATERIALS

Housing material	Polybutylene terephthalate
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Contact pin	Copper alloy

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	160 V
Rated current VDE	10 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	1.8 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	$1 \cdot 10^{13} \Omega \times \text{cm}$

