

Screwless Common Terminal Block



ACL Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Main Features

- Screwless push-in type for simple and easy connection
- No jumper bars required due to built-in common PCB
- For use as power supply expansion terminals
- Slim and compact design with 5mm terminal pitch
- DIN rail mount and screw mount methods

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

ACL - ① ② ③

① Terminal block arrangement

No-mark: single line

B: double line

② The number of connector pin

20: 20-pin

40: 40-pin

50: 50-pin

③ Common type

L: Left + COM, Right - COM

T: Top + COM, Bottom - COM

Product Components

• Product

• Instruction manual

Specifications

Model	ACL-20□	ACL-40□	ACL-B40□	ACL-50□
Terminal type	Screwless	Screwless	Screwless	Screwless
Terminal block arrangement	Single line	Single line	Double line	Single line
Terminal pitch	5.0 mm	5.0 mm	5.0 mm	5.0 mm
Material	Case, Base: PC	Case, Base: PC	Case, Base: PC	Case, Base: PC
Approval	CE ENEC EAC	CE ENEC EAC	CE ENEC EAC	CE ENEC EAC
Unit weight (packaged)	≈ 42 g (≈ 71 g)	≈ 79 g (≈ 146 g)	≈ 67 g (≈ 96 g)	≈ 97 g (≈ 164 g)

Rated voltage	≤ 250 VDC≐, 250 VAC~ 50/60 Hz
Rated current	≤ 10 A
Insulation resistance	≥ 1,000 MΩ (500 VDC≐ megger)
Dielectric strength	3,000 VAC~ 50/60 Hz for 1 minute
Vibration	0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 2 hours
Vibration (malfunction)	0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 10 minutes
Shock	150 m/s ² (≈ 15 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times
Ambient temperature	-15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Protection structure	IP20 (IEC standard)

Applicable wire - solid ⁰¹⁾	∅ 0.6 to 1.25 mm
Applicable wire - stranded ^{01) 02)}	AWG 22-18 (0.30 to 0.80 mm ²)
Wire ferrule connection tensile strength	≥ 30 N
Stripped length	8 to 10 mm

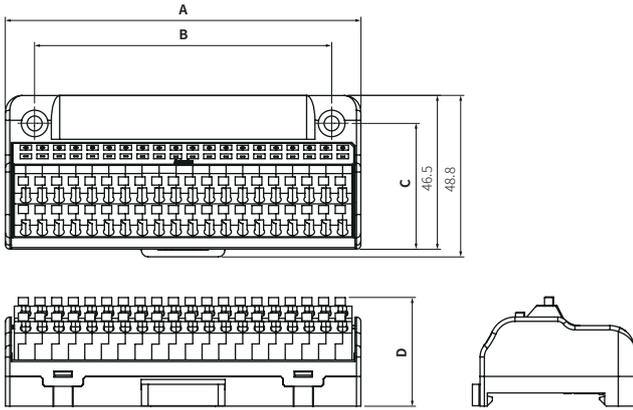
01) Use the cable of copper conductor in 60 °C temperature class.

02) When using the stranded wire, use End Sleeve (wire ferrule).

Dimensions

• Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

■ Single line



	A	B	C	D
20-pin	57.5	53	38	33.1
40-pin	106.5	89	38.1	32.9
50-pin	131.5	102	38.1	32.9

■ Double line

