

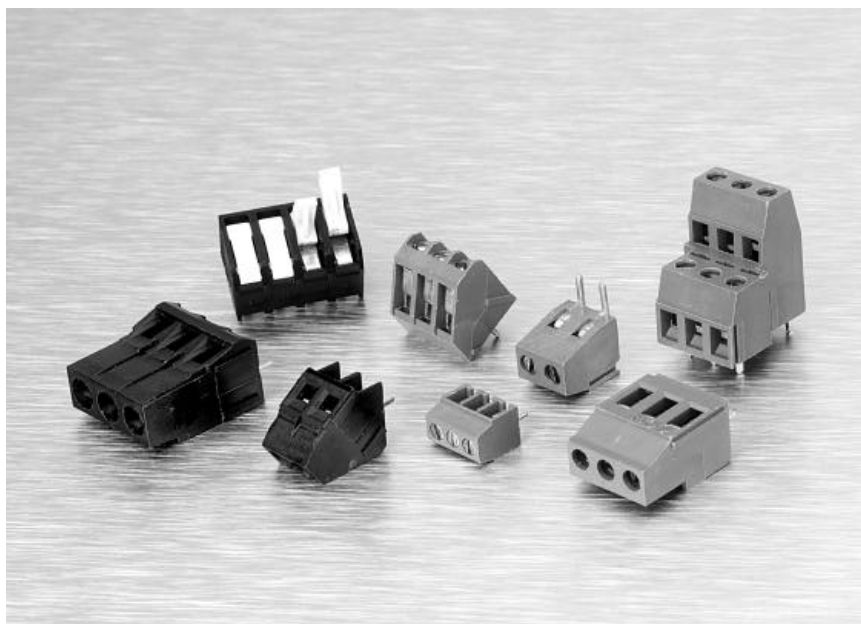
DESCRIPTION/APPLICATION

Designed to European specifications, these one piece blocks facilitate wire to PC board connections. While all blocks are modular and can be interlocked together to extend the number of terminals to any length, molded-to-length versions are also available.

DESIGN ADVANTAGES

- Pitches Available
 - 2,5mm (0.098")
 - 3,5mm (0.138")
 - 5,0mm (0.197")
 - 5,08mm (0.200")
 - 0.250" (6,35mm)
 - 7,0mm (0.276")
 - 10mm (0.394")
 - 10,16mm (0.400")
- Effective 2,5mm for Double Decker Design.
- Vertical and horizontal solder pins available for most lines.
- Available in four connection styles:
 - Cage clamp for superior connection.
 - Wire protection for economical designs.
 - Tunnel connection for most economical designs.
 - Screwless clamp for quick connections.
- Special "interlocking" feature allows any length connector to be assembled in modular fashion — Also available molded to length.
- Thermoplastic insulator housing — UL94V-0 rated.
- Gold and silver plated terminals available in addition to standard tin plating.
- Hot stamped terminal marking available.
- Test points for direct reading built into many connectors.

ONE PIECE CONNECTORS



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5MM STANDARD CONNECTORS WITH CAGE CLAMP SERIES B02

PHYSICAL PROPERTIES

Housing:

HOUSING MATERIAL: Polybutylene terephthalate (PBTP), GV 20

FLAMMABILITY: UL94V-0

COLOR: Blue or Black

Terminal:

CAGE CLAMP AND SOLDER PIN: Brass, tin plated
SCREW: M3 x 4,3mm, steel, zinc plated, yellow chromate treated

Mechanical:

PITCH (TERMINAL SPACING): 5mm and 10mm

RECOMMENDED PCB HOLE DIA.: $\pm 1,4$ mm

WIRE STRIP LENGTH: 6,5mm - 7,0mm

RECOMMENDED TIGHTENING TORQUE: 0.8Nm (7.0 in-lbs)

ELECTRICAL PROPERTIES:

MAXIMUM CURRENT: 20A

OPERATING VOLTAGE: 300V

WIRE RANGE: 12-22 AWG

DIELECTRIC WITHSTAND: 16 KV/mm

ENVIRONMENTAL PROPERTIES:

OPERATING TEMPERATURE RANGE:

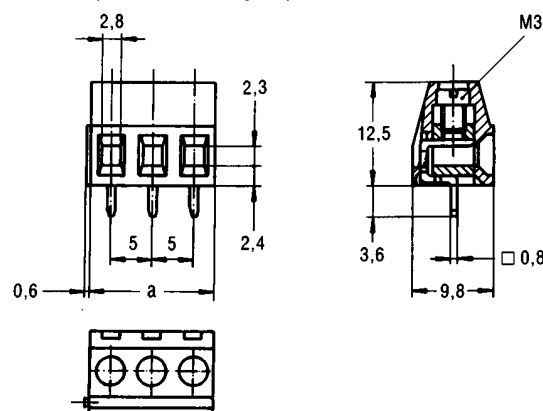
-30°C to +120°C Gold and Silver contact system

-30°C to +105°C Tin contact system

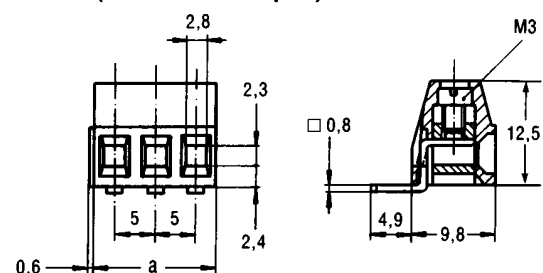


5mm and 10mm Pitch

B02C4V (vertical solder pins)



B02C4H (horizontal solder pins)



Ordering Information

# OF TERMINALS	5MM VERTICAL	5MM HORIZONTAL	10MM VERTICAL	10MM HORIZONTAL
2	B02C4V02T	B02C4H02T	B02C5V02T	B02C5H02T
3	B02C4V03T	B02C4H03T	B02C5V03T	B02C5H03T
4	B02C4V04T	B02C4H04T	B02C5V04T	B02C5H04T
5	B02C4V05T	B02C4H05T	B02C5V05T	B02C5H05T
6	B02C4V06T	B02C4H06T	B02C5V06T	B02C5H06T
7	B02C4V07T	B02C4H07T	B02C5V07T	B02C5H07T
8	B02C4V08T	B02C4H08T	B02C5V08T	B02C5H08T
9	B02C4V09T	B02C4H09T	—	—
10	B02C4V10T	B02C4H10T	—	—
11	B02C4V11T	B02C4H11T	—	—
12	B02C4V12T	B02C4H12T	—	—
13	B02C4V13T	B02C4H13T	—	—
14	B02C4V14T	B02C4H14T	—	—
15	B02C4V15T	B02C4H15T	—	—
16	B02C4V16T	B02C4H16T	—	—

NOTE: Add "B" suffix for black color. Minimum order 5000 pieces.

5MM STANDARD CONNECTORS WITH WIRE PROTECTOR SERIES B02

PHYSICAL PROPERTIES

Housing:

HOUSING MATERIAL: Polybutylene terephthalate (PBTP), GV 20

FLAMMABILITY: UL94V-0

COLOR: Blue or Black

Terminal:

TUBULAR SCREW & SOLDER PIN: Brass, tin plated

WIRE PROTECTOR: stainless steel spring

SCREW: M2,6 x 4,3mm, steel, zinc plated, yellow chromate treated

Mechanical:

PITCH (TERMINAL SPACING): 5mm and 10mm

RECOMMENDED PCB HOLE DIA.: -1,3mm

WIRE STRIP LENGTH: 4,5mm - 5,0mm

RECOMMENDED TIGHTENING TORQUE: 0.8Nm (7.0 in-lbs)

ELECTRICAL PROPERTIES:

MAXIMUM CURRENT: 15A

OPERATING VOLTAGE: 300V

WIRE RANGE: 14-22 AWG (With Wire Protector)

DIELECTRIC WITHSTAND: 16 KV/mm

ENVIRONMENTAL:

OPERATING TEMPERATURE RANGE:

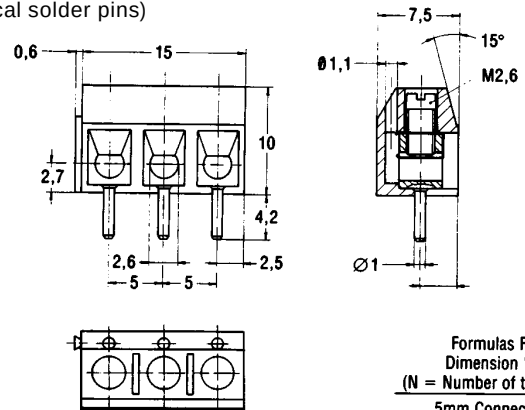
-30°C to +120°C Gold and Silver contact system

-30°C to +105°C Tin contact system



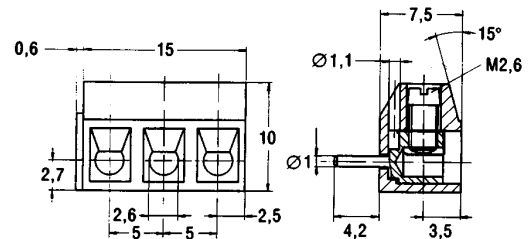
5mm and 10mm Pitch

B02W4V (vertical solder pins)



Formulas For
Dimension "a"
(N = Number of terminals)
5mm Connectors:
 $a = N \times 5$
10mm Connectors:
 $a = (N \times 10) - 5$

B02W4H (horizontal solder pins)



Ordering Information

# OF TERMINALS	5MM VERTICAL	5MM HORIZONTAL	10MM VERTICAL	10MM HORIZONTAL
2	B02W4V02T	B02W4H02T	B02W5V02T	B02W5H02T
3	B02W4V03T	B02W4H03T	B02W5V03T	B02W5H03T
4	B02W4V04T	B02W4H04T	B02W5V04T	B02W5H04T
5	B02W4V05T	B02W4H05T	B02W5V05T	B02W5H05T
6	B02W4V06T	B02W4H06T	B02W5V06T	B02W5H06T
7	B02W4V07T	B02W4H07T	B02W5V07T	B02W5H07T
8	B02W4V08T	B02W4H08T	B02W5V08T	B02W5H08T
9	B02W4V09T	B02W4H09T	—	—
10	B02W4V10T	B02W4H10T	—	—
11	B02W4V11T	B02W4H11T	—	—
12	B02W4V12T	B02W4H12T	—	—
13	B02W4V13T	B02W4H13T	—	—
14	B02W4V14T	B02W4H14T	—	—
15	B02W4V15T	B02W4H15T	—	—
16	B02W4V16T	B02W4H16T	—	—

NOTE: Add "B" suffix for black color. Minimum order 5000 pieces.

5MM STANDARD CONNECTORS WITH TUNNEL CONNECTION SERIES B02

PHYSICAL PROPERTIES

Housing:

HOUSING MATERIAL: Polybutylene terephthalate (PBTP), GV 20

FLAMMABILITY: UL94V-0

COLOR: Blue or Black

Terminal:

TUBULAR SCREW & SOLDER PIN: Brass, tin plated
SCREW: M2,6 x 4,3mm, steel, zinc plated, yellow chromate treated

Mechanical:

PITCH (TERMINAL SPACING): 5mm and 10mm

RECOMMENDED PCB HOLE DIA.: -1,3mm

WIRE STRIP LENGTH: 4,5mm - 5,0mm

RECOMMENDED TIGHTENING TORQUE: 0.8Nm (7.0 in-lbs)

ELECTRICAL PROPERTIES:

MAXIMUM CURRENT: 15A

OPERATING VOLTAGE: 300V

WIRE RANGE: 14-22 AWG

DIELECTRIC WITHSTAND: 16 KV/mm

ENVIRONMENTAL:

OPERATING TEMPERATURE RANGE:

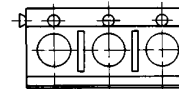
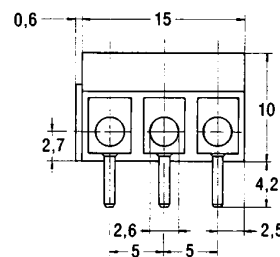
-30°C to +120°C Gold and Silver contact system

-30°C to +105°C Tin contact system



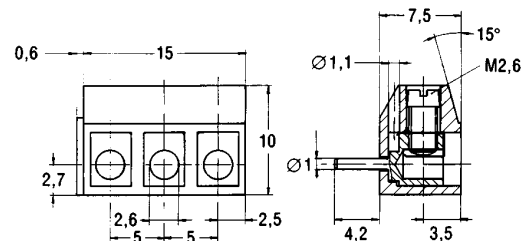
5mm and 10mm Pitch

B02T4V (vertical solder pins)



Formulas For
Dimension "a"
(N = Number of terminals)
5mm Connectors:
 $a = N \times 5$
10mm Connectors:
 $a = (N \times 10) - 5$

B02T4H (horizontal solder pins)



Ordering Information

# OF TERMINALS	5MM VERTICAL	5MM HORIZONTAL	10MM VERTICAL	10MM HORIZONTAL
2	B02T4V02T	B02T4H02T	B02T5V02T	B02T5H02T
3	B02T4V03T	B02T4H03T	B02T5V03T	B02T5H03T
4	B02T4V04T	B02T4H04T	B02T5V04T	B02T5H04T
5	B02T4V05T	B02T4H05T	B02T5V05T	B02T5H05T
6	B02T4V06T	B02T4H06T	B02T5V06T	B02T5H06T
7	B02T4V07T	B02T4H07T	B02T5V07T	B02T5H07T
8	B02T4V08T	B02T4H08T	B02T5V08T	B02T5H08T
9	B02T4V09T	B02T4H09T	—	—
10	B02T4V10T	B02T4H10T	—	—
11	B02T4V11T	B02T4H11T	—	—
12	B02T4V12T	B02T4H12T	—	—
13	B02T4V13T	B02T4H13T	—	—
14	B02T4V14T	B02T4H14T	—	—
15	B02T4V15T	B02T4H15T	—	—
16	B02T4V16T	B02T4H16T	—	—

NOTE: Add "B" suffix for black color. Minimum order 5000 pieces.

5MM STANDARD CONNECTORS WITH CAGE CLAMP SERIES 5KEV

PHYSICAL PROPERTIES

Housing:

HOUSING MATERIAL: Thermoplastic, Polyester

FLAMMABILITY: UL94V-0

COLOR: Green or Black

Terminal:

CONTACT: Bright acid-tin plated copper alloy

CAGE CLAMP: Zinc plated steel with yellow chromate coating

SCREWS: Zinc plated steel with yellow chromate coating, captive M3 screws

Mechanical:

PITCH (TERMINAL SPACING): 5mm

RECOMMENDED PCB HOLE DIA: 0.062" Dia.

RECOMMENDED TIGHTENING TORQUE: 5.0 lb. inch

SOLDERABILITY: MIL STD 202, Method 208

ELECTRICAL PROPERTIES

OPERATING VOLTAGE: 300V (limited ratings)

MAXIMUM CURRENT: 15A @ 150V, 10A @ 300V (limited ratings)

WIRE RANGE: 12-22 AWG (solid or stranded)

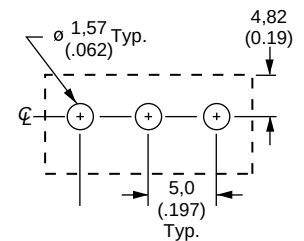
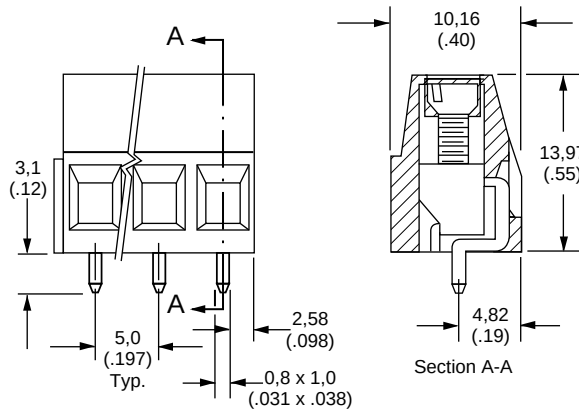
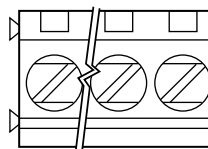
ENVIRONMENTAL PROPERTIES

MAX. OPERATING TEMPERATURE: 105° C.



5mm Pitch

5KEV (vertical solder pins)



Ordering Information

# OF TERMINALS	5MM VERTICAL GREEN	5MM VERTICAL BLACK
2	5KEV-02	5KEV-02-1
3	5KEV-03	5KEV-03-1
4	5KEV-04	5KEV-04-1
5	5KEV-05	5KEV-05-1
6	5KEV-06	5KEV-06-1
7	5KEV-07	5KEV-07-1
8	5KEV-08	5KEV-08-1
9	5KEV-09	5KEV-09-1
10	5KEV-10	5KEV-10-1
11	5KEV-11	5KEV-11-1
12	5KEV-12	5KEV-12-1
13	5KEV-13	5KEV-13-1
14	5KEV-14	5KEV-14-1
15	5KEV-15	5KEV-15-1
16	5KEV-16	5KEV-16-1
17	5KEV-17	5KEV-17-1
18	5KEV-18	5KEV-18-1
19	5KEV-19	5KEV-19-1
20	5KEV-20	5KEV-20-1
21	5KEV-21	5KEV-21-1
22	5KEV-22	5KEV-22-1
23	5KEV-23	5KEV-23-1
24	5KEV-24	5KEV-24-1

5MM STANDARD CONNECTORS WITH WIRE PROTECTOR SERIES 5UL

PHYSICAL PROPERTIES

Housing:

HOUSING MATERIAL: Polyamide

FLAMMABILITY: UL94V-0

COLOR: Green

Terminal:

TERMINALS: Bright acid-tin plated copper alloy

WIRE PROTECTOR: Stainless steel

SCREW: Zinc plated steel combo-head

Mechanical:

PITCH (TERMINAL SPACING): 5mm

RECOMMENDED PCB HOLE SIZE: 0.062" Diameter

RECOMMENDED TIGHTENING TORQUE: 4.4 Lb./in.

ELECTRICAL PROPERTIES

RATING: 8 Amps/250 volts, 15 Amps/150 Volts*

WIRE RANGE: 14-26 AWG

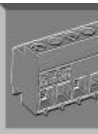
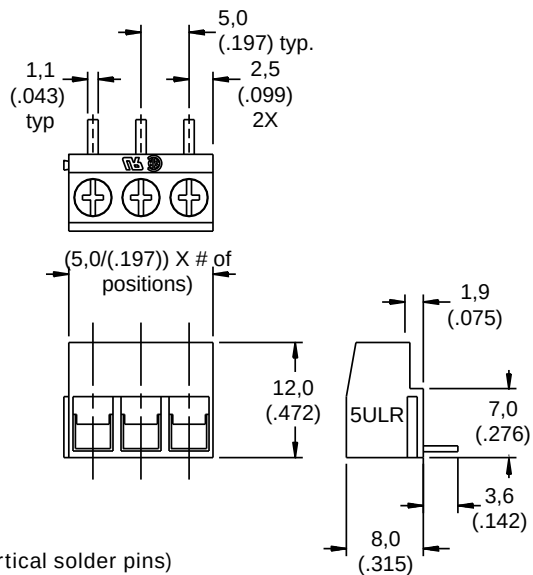
ENVIRONMENTAL PROPERTIES

MAX. OPERATING TEMPERATURE: 105° C.



5ULR (right angle solder pins)

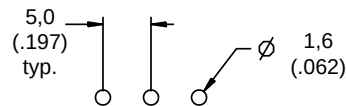
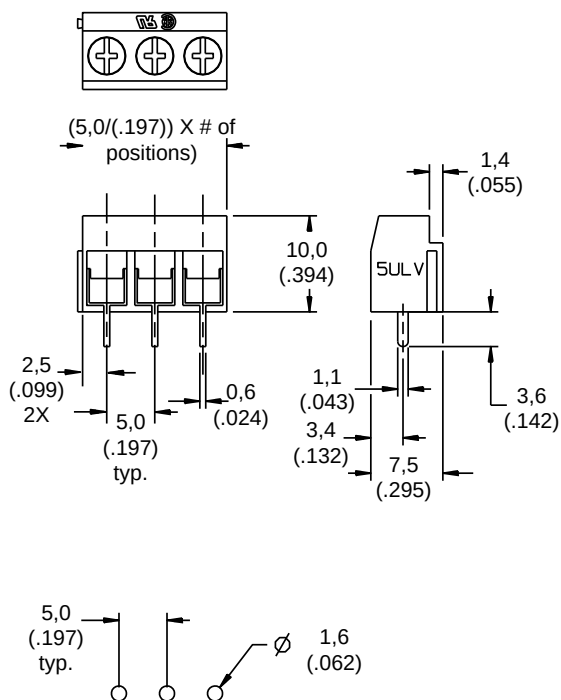
5mm Pitch



Ordering Information

# OF TERMINALS	5MM VERTICAL	5MM RIGHT ANGLE
2	5ULV-02	5ULR-02
3	5ULV-03	5ULR-03
4	5ULV-04	5ULR-04
5	5ULV-05	5ULR-05
6	5ULV-06	5ULR-06
7	5ULV-07	5ULR-07
8	5ULV-08	5ULR-08
9	5ULV-09	5ULR-09
10	5ULV-10	5ULR-10
11	5ULV-11	5ULR-11
12	5ULV-12	5ULR-12
13	5ULV-13	5ULR-13
14	5ULV-14	5ULR-14
15	5ULV-15	5ULR-15
16	5ULV-16	5ULR-16
17	5ULV-17	5ULR-17
18	5ULV-18	5ULR-18
19	5ULV-19	5ULR-19
20	5ULV-20	5ULR-20
21	5ULV-21	5ULR-21
22	5ULV-22	5ULR-22
23	5ULV-23	5ULR-23
24	5ULV-24	5ULR-24

NOTE: Consult factory for molded to length up to 12 positions.



RECOMMENDED HOLE LAYOUT



LR30811 E54800