

## J7B series rectangle electrical connector



Conform to Chinese military connector standard GJB176A-97. J7B series is upgrade to J7A, can mate with J7A. The family of connector is designed as rain-proof, good performance in environment- resistance, hermetic receptacle shielding shell and springtac socket.

## Part number

|                                 |     |   |     |   |   |    |
|---------------------------------|-----|---|-----|---|---|----|
|                                 | J7B | I | -50 | T | K | 60 |
| Basic series                    |     |   |     |   |   |    |
| Orientation                     |     |   |     |   |   |    |
| I, II                           |     |   |     |   |   |    |
| Omit = Normal                   |     |   |     |   |   |    |
| Number of contact               |     |   |     |   |   |    |
| 9, 17, 26, 38, 50, 62, 72       |     |   |     |   |   |    |
| Type of plug and receptacle     |     |   |     |   |   |    |
| T = Plug                        |     |   |     |   |   |    |
| Z = Receptacle                  |     |   |     |   |   |    |
| Type of contact                 |     |   |     |   |   |    |
| J = Pin                         |     |   |     |   |   |    |
| K = Socket                      |     |   |     |   |   |    |
| Style of outlet                 |     |   |     |   |   |    |
| 60 = Double circular outlet     |     |   |     |   |   |    |
| Omit = Single receptacle outlet |     |   |     |   |   |    |

## Performance specifications

Temperature rating: -55 °C ~ +125 °C

Relative humidity: at 40 °C ± 2 °C, 90 %~ 95 %

Leakage:  $\leq 0.1 \times 10^{-6}$  MPa

Vibration: at 10Hz ~ 2000 Hz, acceleration 245 m/s<sup>2</sup>

Shock: 1176 m/s<sup>2</sup> (120 g) 6 ms

Salt spray:  $\geq 48$  hours

Endurance:  $\geq 1000$  cycles

## Electrical performance

Current: 5 A

Decline rate of current:

|                |   |    |    |    |    |    |    |
|----------------|---|----|----|----|----|----|----|
| Contact number | 9 | 17 | 26 | 38 | 50 | 62 | 72 |
| Decline rate % | 0 | 10 | 20 | 30 | 30 | 40 | 40 |

Contact resistance:  $\leq 7 \text{ M}\Omega$

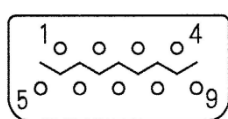
Withstanding voltage

|              |              |
|--------------|--------------|
| Normal       | Low pressure |
| AC 1000 Vrms | AC 150 Vrms  |

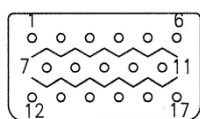
Insulation resistance

|                             |                            |                           |                          |
|-----------------------------|----------------------------|---------------------------|--------------------------|
| Normal                      | Elevated temperature       | Humid                     | Rain                     |
| $\geq 5000 \text{ M}\Omega$ | $\geq 500 \text{ M}\Omega$ | $\geq 50 \text{ M}\Omega$ | $\geq 4 \text{ M}\Omega$ |

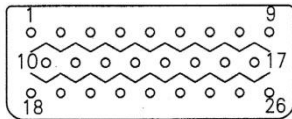
## Contact layout



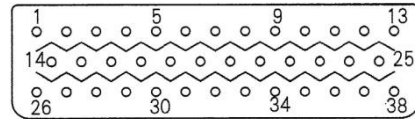
9



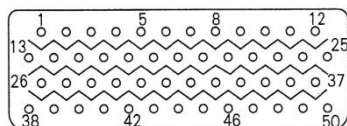
17



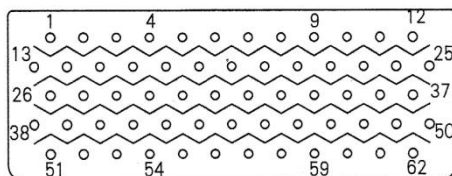
26



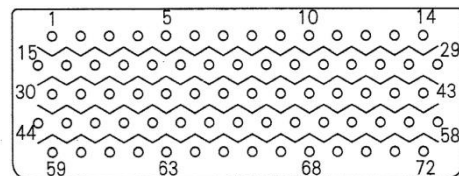
38



50

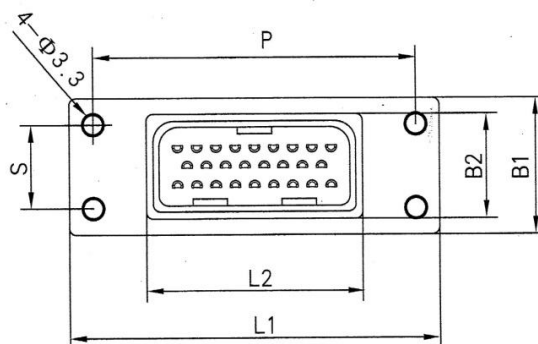
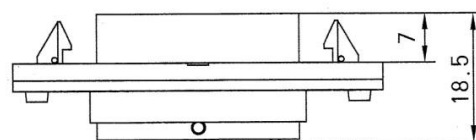
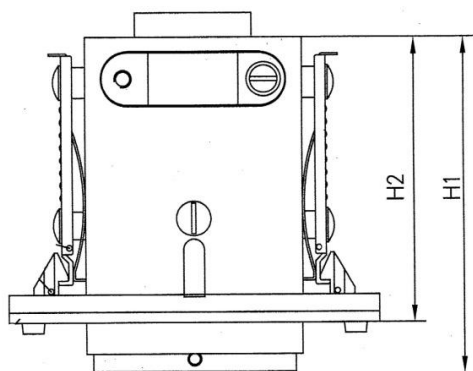


62



72

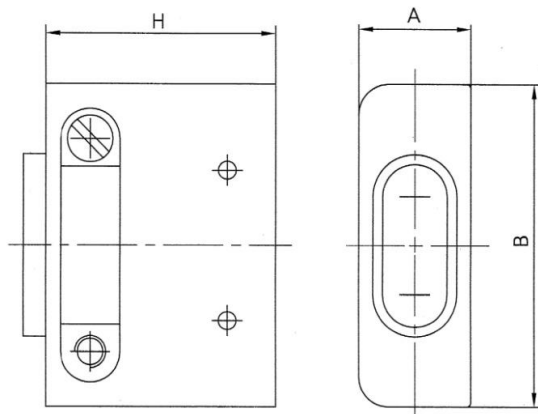
## Shell size



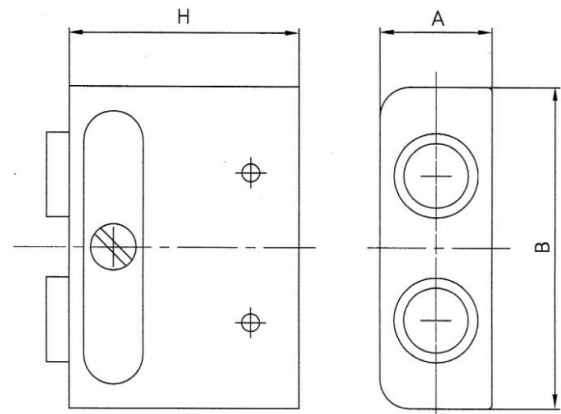
| Number of contact | Dimension of shell |      |      |    | Mounting dimension |    |      |      |
|-------------------|--------------------|------|------|----|--------------------|----|------|------|
|                   | L1                 | B1   | H1   | H2 | P                  | S  | L2   | B2   |
| 9                 | 42                 | 17.0 | 44.5 | 37 | 35.4               | —  | 20.6 | 11.9 |
| 17                | 45                 | 19.5 | 44.5 | 37 | 38.0               | 12 | 23.0 | 14.8 |
| 26                | 54                 | 19.5 | 48.5 | 41 | 47.0               | 12 | 31.5 | 15.0 |
| 38                | 65                 | 19.5 | 48.5 | 41 | 58.0               | 12 | 42.8 | 15.0 |
| 50                | 65                 | 22.4 | 53.5 | 46 | 58.0               | 12 | 42.8 | 17.7 |
| 62, 72            | 71                 | 26.0 | 53.5 | 46 | 64.0               | 12 | 49.6 | 21.6 |

# Outlet

Single receptacle outlet

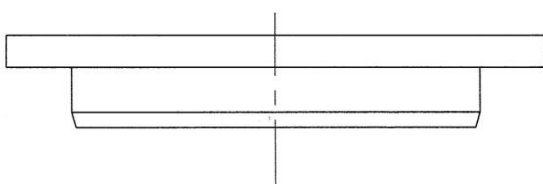


Double circular outlet

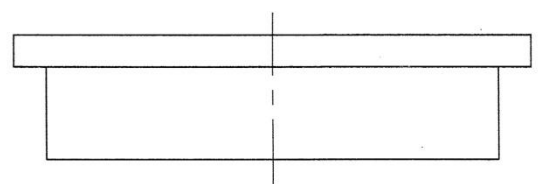


| Number of contact | A    | B    | H    |
|-------------------|------|------|------|
| 9                 | 12.0 | 20.2 | 27.0 |
| 17                | 14.9 | 32.1 | 27.0 |
| 26                | 15.1 | 31.6 | 31.0 |
| 38                | 15.1 | 42.8 | 31.0 |
| 50                | 17.8 | 42.8 | 33.5 |
| 62, 72            | 21.0 | 48.8 | 33.5 |

## Dust cap



Dust cap of plug



Dust cap of receptacle