

# MP1 Series Miniature Electrical Connectors

MP1 - miniature circular electrical connectors are sealed, current intensity 5A, operating voltage 140V, used in AC circuits.

## • Specifications

Ambient temperature: - 60°C ~ +150°C

Vibration acceleration: 1~2500Hz 15g

Impact acceleration: repeatedly 35g

Operating Voltage: 140V

Contact working current: 0.5A

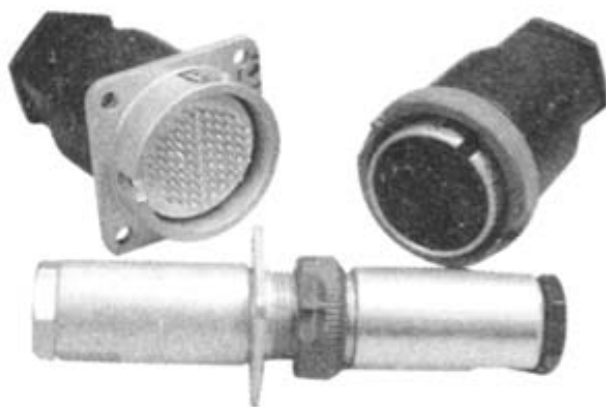
Insulation resistance: ≥1000MΩ normal temperature  
 ≥20MΩ high temperature  
 ≥1MΩ high humidity

Contact resistance: ≥10mΩ

Mechanical wear resistance: plug/unplug 250

Validity period: 15 years

Specifications: 3E0 204 061JT



| Number of contacts | Total current load (A) | Number of contacts | Total current load (A) |
|--------------------|------------------------|--------------------|------------------------|
| 10                 | 5                      | 50                 | 25                     |
| 19                 | 9.5                    | 76                 | 38                     |
| 30                 | 15                     | 102                | 51                     |

## Marking description

| Serial number | Code meaning                                   | Russian code            | Factory Code            |
|---------------|------------------------------------------------|-------------------------|-------------------------|
| 1             | Model                                          | MP1                     | MP1                     |
| 2             | Number of contacts                             | 10, 19, 30, 50, 76, 102 | 10, 19, 30, 50, 76, 102 |
| 3             | Threaded Receptacle with Pin, contact plating  | 1-silver 2-gold         | 1-silver 2-gold         |
|               | Cut-in Receptacle with Pin, contact plating    | 3-silver 4-gold         | 3-silver 4-gold         |
|               | Threaded Plug with Socket, contact plating     | 5-silver 6-gold         | 5-silver 6-gold         |
|               | Cut-in Receptacle with Socket, contact plating | 7-silver 8-gold         | 7-silver 8-gold         |
| 4             | With tail attachment                           |                         | WF                      |
| 5             | Any conditions                                 | B                       |                         |

### Example:

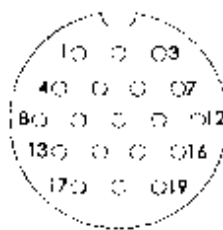
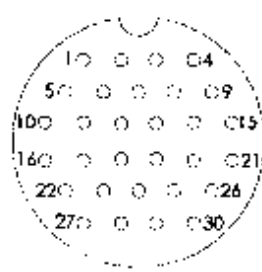
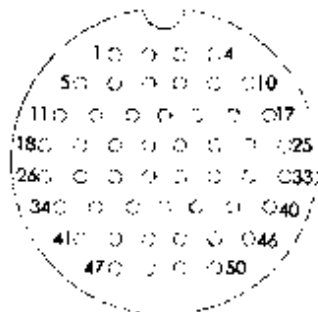
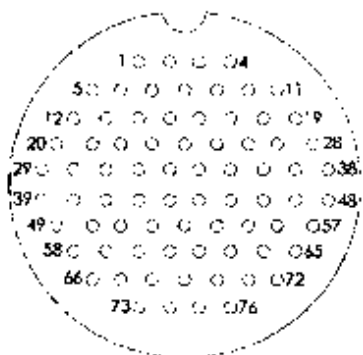
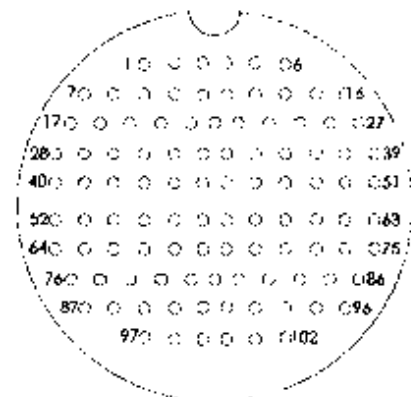
Ru:

|                                                       |            |   |           |   |          |   |          |
|-------------------------------------------------------|------------|---|-----------|---|----------|---|----------|
| Model                                                 | <b>MP1</b> | - | <b>10</b> | - | <b>1</b> | - | <b>B</b> |
| Number of contacts                                    |            |   |           |   |          |   |          |
| Connector type, connection method and contact plating |            |   |           |   |          |   |          |
| Any conditions                                        |            |   |           |   |          |   |          |

Factory:

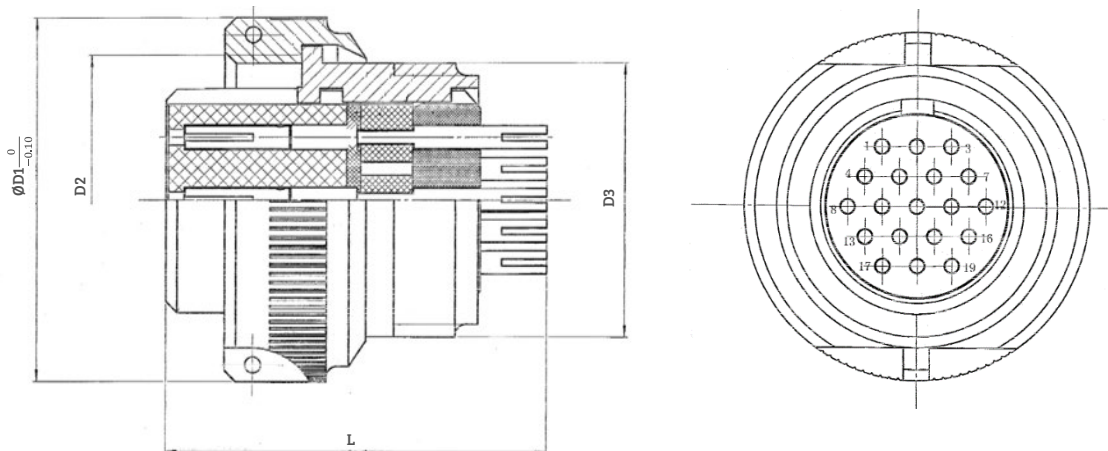
|                                                       |            |   |           |   |          |   |           |   |          |
|-------------------------------------------------------|------------|---|-----------|---|----------|---|-----------|---|----------|
| Model                                                 | <b>MP1</b> | - | <b>10</b> | - | <b>1</b> | - | <b>WF</b> | - | <b>B</b> |
| Number of contacts                                    |            |   |           |   |          |   |           |   |          |
| Connector type, connection method and contact plating |            |   |           |   |          |   |           |   |          |
| With tail attachment                                  |            |   |           |   |          |   |           |   |          |
| Any conditions                                        |            |   |           |   |          |   |           |   |          |

### Insulator contacts arrangement (viewed from the jack contacts)

| 10                                                                                  | 19                                                                                   | 30                                                                                  | 50                                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |   |  |  |
| 76                                                                                  | 102                                                                                  |                                                                                     |                                                                                       |
|  |  |                                                                                     |                                                                                       |

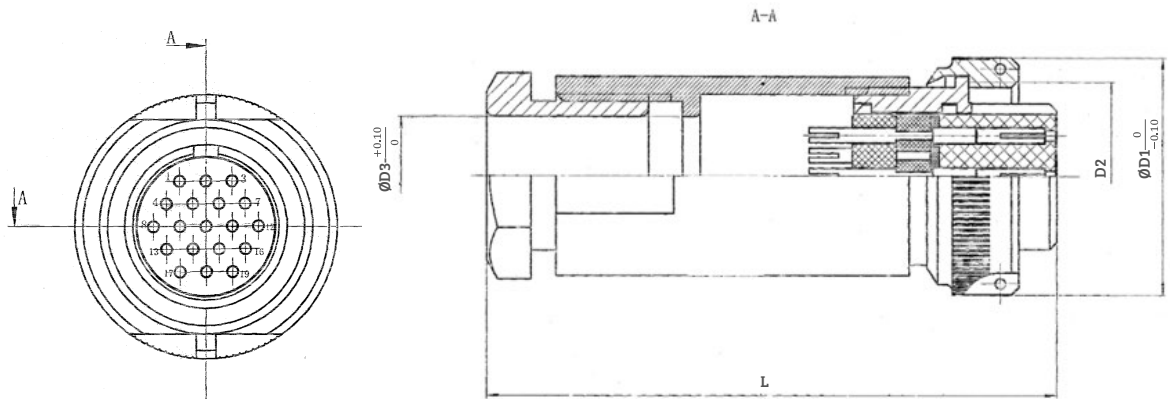


- Threaded Plug with Socket, without tail attachment



| Serial number | Model       | Dimension (mm) |          |          |      |
|---------------|-------------|----------------|----------|----------|------|
|               |             | D1             | D2       | D3       | L    |
| 1             | MP1-10-5-B  | 13.8           | M10×0.75 | M10×0.75 | 16.7 |
|               | MP1-10-6-B  |                |          |          |      |
| 2             | MP1-19-5-B  | 16.0           | M12×0.75 | M12×0.75 | 16.9 |
|               | MP1-19-6-B  |                |          |          |      |
| 3             | MP1-30-5-B  | 17.7           | M14×0.75 | M14×0.75 | 16.7 |
|               | MP1-30-6-B  |                |          |          |      |
| 4             | MP1-50-5-B  | 22.3           | M18×1    | M18×0.75 | 16.9 |
|               | MP1-50-6-B  |                |          |          |      |
| 5             | MP1-76-5-B  | 26.3           | M22×1    | M22×0.75 | 16.7 |
|               | MP1-76-6-B  |                |          |          |      |
| 6             | MP1-102-5-B | 31.1           | M27×1    | M27×0.75 | 16.9 |
|               | MP1-102-6-B |                |          |          |      |

- Threaded Plug with Socket, with tail attachment



| Serial number | Model          | Dimension (mm) |          |      |      |
|---------------|----------------|----------------|----------|------|------|
|               |                | D1             | D2       | D3   | L    |
| 1             | MP1-10-5-WF-B  | 13.8           | M10×0.75 | 6    | 36   |
|               | MP1-10-6-WF-B  |                |          |      |      |
| 2             | MP1-19-5-WF-B  | 16.0           | M12×0.75 | 8    | 38   |
|               | MP1-19-6-WF-B  |                |          |      |      |
| 3             | MP1-30-5-WF-B  | 17.7           | M14×0.75 | 9.2  | 41   |
|               | MP1-30-6-WF-B  |                |          |      |      |
| 4             | MP1-50-5-WF-B  | 22.3           | M18×1    | 11.2 | 41.5 |
|               | MP1-50-6-WF-B  |                |          |      |      |
| 5             | MP1-76-5-WF-B  | 26.3           | M22×1    | 13.2 | 42   |
|               | MP1-76-6-WF-B  |                |          |      |      |
| 6             | MP1-102-5-WF-B | 31.1           | M27×1    | 16.2 | 50   |
|               | MP1-102-6-WF-B |                |          |      |      |





**MP1 Series product model**
**Threaded connection**

|                         | Receptacle with Pin                 | Plug with Socket                    |
|-------------------------|-------------------------------------|-------------------------------------|
| Without tail attachment | MP1-(10, 19, 30, 5, 76, 102)-1-B    | MP1-(10, 19, 30, 5, 76, 102)-5-B    |
|                         | MP1-(10, 19, 30, 5, 76, 102)-2-B    | MP1-(10, 19, 30, 5, 76, 102)-6-B    |
| With tail attachment    | MP1-(10, 19, 30, 5, 76, 102)-1-WF-B | MP1-(10, 19, 30, 5, 76, 102)-5-WF-B |
|                         | MP1-(10, 19, 30, 5, 76, 102)-2-WF-B | MP1-(10, 19, 30, 5, 76, 102)-6-WF-B |

**Push-in connection**

|                         | Receptacle with Pin                 | Receptacle with Socket              |
|-------------------------|-------------------------------------|-------------------------------------|
| Without tail attachment | MP1-(10, 19, 30, 5, 76, 102)-3-B    | MP1-(10, 19, 30, 5, 76, 102)-7-B    |
|                         | MP1-(10, 19, 30, 5, 76, 102)-4-B    | MP1-(10, 19, 30, 5, 76, 102)-8-B    |
| With tail attachment    | MP1-(10, 19, 30, 5, 76, 102)-3-WF-B | MP1-(10, 19, 30, 5, 76, 102)-7-WF-B |
|                         | MP1-(10, 19, 30, 5, 76, 102)-4-WF-B | MP1-(10, 19, 30, 5, 76, 102)-8-WF-B |