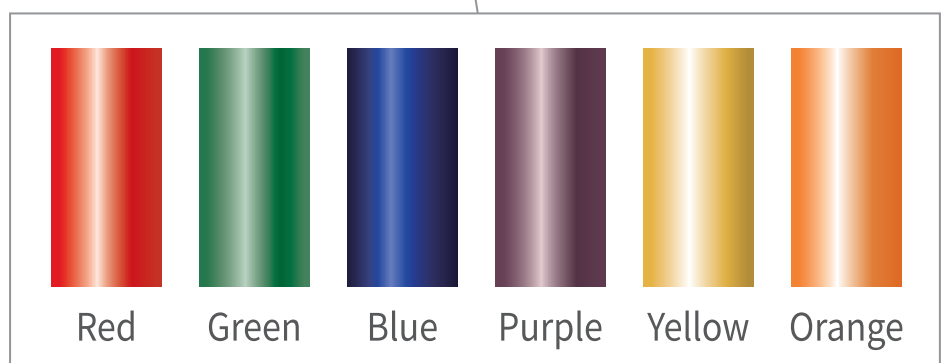
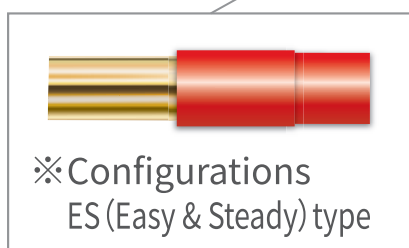
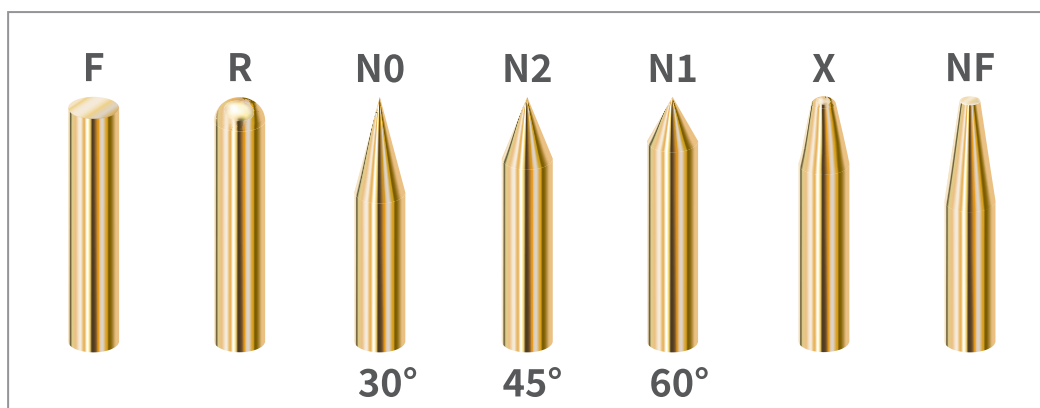


# Needle Probe Lineup

Our Probes accurately and reliably conduct electricity with exquisitely designed tips. Our Probes division is the fruit of high-precision processing Technology cultivated through our long experience in needle manufacturing, and we have gained strong trust in the electrical, electronics and semiconductor fields.

- Home appliances (smartphones, TVs)
- Vehicles (automobiles, trains, aircrafts)
- Electronic components (printed circuit boards, chip parts, connectors)
- Continuity inspection ● Performance inspection



ORGAN NEEDLE CO., LTD.

ORGAN NEEDLE  
Technical Link  
**PROBE**

# Technical Specifications of Needle Probes

| Type                                         | NP1130○RW     | NP0930○RW    | NP0730○RW      | NP0720○RW      |
|----------------------------------------------|---------------|--------------|----------------|----------------|
| Tip Shape Code                               | N/R/F/X       | N/R/F/X      | N/R/F/X/NF     | N/R/F/X        |
| Tip Diameter                                 | φ0.11         | φ0.09        | φ0.07          | φ0.07          |
| Coating Diameter                             | φ0.13         | φ0.11        | φ0.09          | φ0.09          |
| Total Length                                 | 30.0mm        | 30.0mm       | 30.0mm         | 20.0mm         |
| Recommended Stroke                           | 0.25mm        | 0.2mm        | 0.2mm          | 0.2mm          |
| Current Rating                               | 900mA         | 700mA        | 500mA          | 500mA          |
| Specific Resistance                          | 280mΩ         | 550mΩ        | 680mΩ          | 450mΩ          |
| Standard Load<br>(Distance Between Supports) | 16gf (25.5mm) | 7gf (25.5mm) | 2.4gf (25.5mm) | 9.5gf (13.0mm) |
| Supported Pitch (2-Terminal)                 | 0.2mm         | 0.15mm       | 0.11mm         | 0.11mm         |
| Material                                     | Tungsten      | Tungsten     | Tungsten       | Tungsten       |

| Type                                         | NP0630○RW      | NP0530○RW      | NP0520○RW      | NP0420○RR        |
|----------------------------------------------|----------------|----------------|----------------|------------------|
| Tip Shape Code                               | N/R/F          | N/R/F          | N/R/F/X        | N/R/F/NF         |
| Tip Diameter                                 | φ0.06          | φ0.05          | φ0.05          | φ0.04            |
| Coating Diameter                             | φ0.08          | φ0.06~0.07     | φ0.06~0.07     | φ0.05            |
| Total Length                                 | 30.0mm         | 30.0mm         | 20.0mm         | 20.0mm           |
| Recommended Stroke                           | 0.15mm         | 0.15mm         | 0.1mm          | 0.1mm            |
| Current Rating                               | 450mA          | 400mA          | 400mA          | 300mA            |
| Specific Resistance                          | 990mΩ          | 1290mΩ         | 870mΩ          | 1330mΩ           |
| Standard Load<br>(Distance Between Supports) | 1.3gf (21.0mm) | 1.0gf (21.0mm) | 2.7gf (13.0mm) | 1.0gf (13.0mm)   |
| Supported Pitch (2-Terminal)                 | 0.10mm         | 0.09mm         | 0.09mm         | 0.07mm           |
| Material                                     | Tungsten       | Tungsten       | Tungsten       | Rhenium-Tungsten |

| Type                                         | NP0310○RR        | NP0320○RR        | NP02510○RR       | NP0210○RR        |
|----------------------------------------------|------------------|------------------|------------------|------------------|
| Tip Shape Code                               | N/R/F/NF         | N/R/F/NF         | N/R/F/NF         | N/R/F/NF         |
| Tip Diameter                                 | φ0.03            | φ0.03            | φ0.025           | φ0.02            |
| Coating Diameter                             | φ0.04            | φ0.04            | φ0.035           | φ0.03            |
| Total Length                                 | 10.0mm           | 20.0mm           | 10.0mm           | 10.0mm           |
| Recommended Stroke                           | 0.1mm            | 0.1mm            | 0.1mm            | 0.1mm            |
| Current Rating                               | 150mA            | 150mA            | 150mA            | 100mA            |
| Specific Resistance                          | 975mΩ            | 1950mΩ           | 1400mΩ           | 2200mΩ           |
| Standard Load<br>(Distance Between Supports) | 1.5gf (5.4mm)    | 1.0gf (6.1mm)    | 1.0gf (4.6mm)    | 0.6gf (3.6mm)    |
| Supported Pitch (2-Terminal)                 | 0.06mm           | 0.06mm           | 0.055mm          | 0.05mm           |
| Material                                     | Rhenium-Tungsten | Rhenium-Tungsten | Rhenium-Tungsten | Rhenium-Tungsten |



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