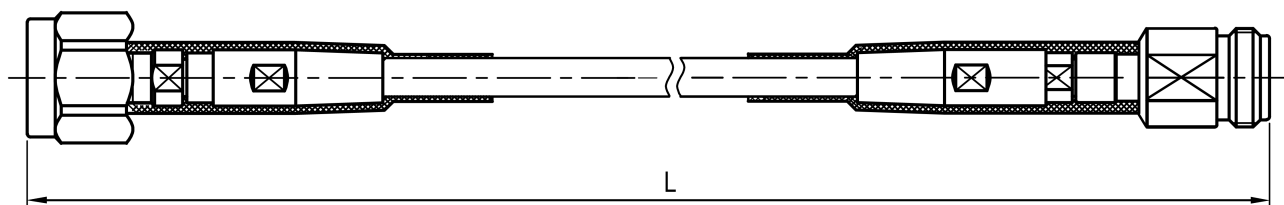


## High-Performance Test Coaxial Cable Assembly, RCT500S-NMNF-L N Male to N Female, DC-18GHz, ø5.2mm

Dimensions(mm) Tolerance $\pm 1\%$



### Electrical & Environmental

|                         |                       |
|-------------------------|-----------------------|
| Frequency Range         | DC-18GHz, 50 Ohms     |
| Avg Power@25°C          | 29W @18GHz, 56W @6GHz |
| Insertion Loss@1M       | 2.17 dB Max @18GHz    |
| VSWR                    | 1.25 Max              |
| Velocity of Propagation | 76%                   |
| Shielding Effectiveness | 90dB Min              |
| Attenuation stability   | $\pm 0.03$ dB Max     |
| Mechanical Phase        | $\pm 2.7^\circ$       |
| OT                      | -40~+125°C            |

### Product Information

|                        |                                              |
|------------------------|----------------------------------------------|
| Product Number         | RCT500S-NMNF-L                               |
| Product Type           | High-Performance Test Coaxial Cable Assembly |
| Cable                  | RCT500S                                      |
| Connector              | N Male to N Female                           |
| Connector Body         | Passivated stainless steel                   |
| Center Contact         | Gold plated beryllium copper                 |
| Bend Radius            | 25.00mm                                      |
| Bend Radius (Repeated) | 52.00mm                                      |

Customized services: including connectors, length, phase matching/tracking, time delay, and better electrical performance.

### RCT500S Structure Characteristics



| Structure          | Material                           | ΦD(mm) |
|--------------------|------------------------------------|--------|
| 1.Center Conductor | Stranded Silver-plated Copper      | 1.02   |
| 2.Dielectric       | LD-PTFE                            | 3.07   |
| 3.Inner shield     | Silver-plated Copper Tape Braiding | 3.27   |
| 4.Interlayer       | LD-PTFE                            | 3.47   |
| 5.Outer Shield     | Silver-plated Copper Wire Braiding | 3.80   |
| 6.Jacket           | Blue PUR                           | 5.20   |

### Product Selection and Loss Index @25°C

| RFTOP P/N         | 3GHz    | 10GHz   | 18GHz   |
|-------------------|---------|---------|---------|
| RCT500S-NMNF-1M   | 1.08 dB | 1.72 dB | 2.17 dB |
| RCT500S-NMNF-1.5M | 1.43 dB | 2.39 dB | 3.06 dB |
| RCT500S-NMNF-2M   | 1.77 dB | 3.05 dB | 3.94 dB |