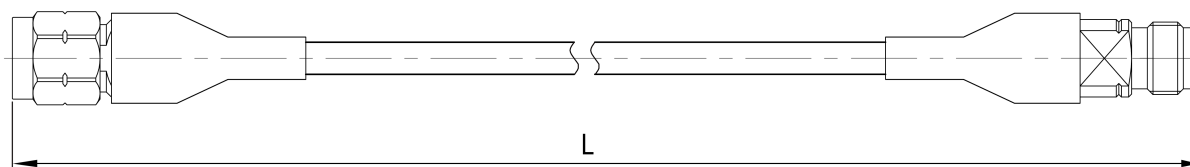


## Ultra-Low Loss Phase Stable Cable Assembly, RCA310H-UMUF-L 2.4mm Male to 2.4mm Female, DC-50GHz, ø3.1mm

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



### Electrical & Environmental

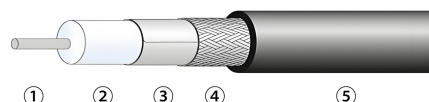
|                 |                   |
|-----------------|-------------------|
| Frequency Range | DC-50GHz, 50 Ohms |
| Avg Power@25°C  | 37.1W @50GHz      |
| IL@1M           | 4.1 dB Max @50GHz |
| VSWR            | 1.3 Max           |
| Capacitance     | 80 pF/m           |
| VOP             | 82%               |
| SE              | 90dB Min          |
| Voltage         | 500V@DC           |
| Temp. Phase     | 750 PPM Max       |
| OT              | -40~+125°C        |

### Product Information

|                    |                                            |
|--------------------|--------------------------------------------|
| Product Number     | RCA310H-UMUF-L                             |
| Product Type       | Ultra-Low Loss Phase Stable Cable Assembly |
| Cable              | RCA310                                     |
| Connector          | 2.4mm Male to 2.4mm Female                 |
| Connector Body     | Passivated stainless steel                 |
| Center Contact     | Gold plated beryllium copper               |
| Bend Radius        | 15.00mm                                    |
| Bend Radius (Rep.) | 31.00mm                                    |

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

### RCA310 Structure Characteristics



| Structure          | Material                           | ΦD(mm) |
|--------------------|------------------------------------|--------|
| 1.Center Conductor | Single-core Silver-plated Copper   | 0.70   |
| 2.Dielectric       | LD-PTFE                            | 1.93   |
| 3.Inner shield     | Silver-plated Copper Tape Wrapping | 2.09   |
| 4.Outer Shield     | Silver-plated Copper Wire Braiding | 2.66   |
| 5.Jacket           | Gray FEP                           | 3.10   |

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

| RFTOP P/N         | 3GHz    | 26GHz   | 50GHz   |
|-------------------|---------|---------|---------|
| RCA310H-UMUF-100  | 0.58 dB | 0.76 dB | 0.86 dB |
| RCA310H-UMUF-200  | 0.66 dB | 1.01 dB | 1.22 dB |
| RCA310H-UMUF-300  | 0.75 dB | 1.27 dB | 1.58 dB |
| RCA310H-UMUF-600  | 0.99 dB | 2.03 dB | 2.66 dB |
| RCA310H-UMUF-1M   | 1.32 dB | 3.05 dB | 4.10 dB |
| RCA310H-UMUF-1.5M | 1.73 dB | 4.33 dB | 5.90 dB |
| RCA310H-UMUF-2M   | 2.14 dB | 5.61 dB | 7.70 dB |