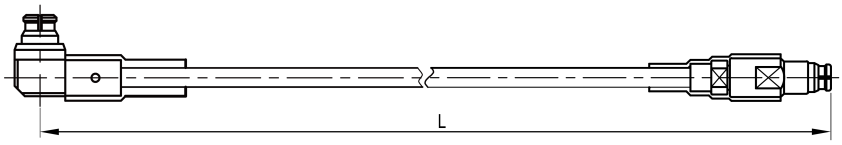
# Ultra-Low Loss Phase Stable Cable Assembly, RCA220-PFWPF-L
## SMP Female to SMP Female, DC-40GHz, ø2.2mm

01

### Dimensions(mm) Tolerance±1%




02

### Electrical & Environmental

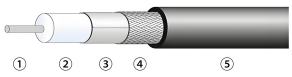
| | |
|---|---|
| **Frequency Range** | DC-40GHz, 50 Ohms |
| **Avg Power@25℃** | 9.8W @40GHz |
| **I L@1M** | 4.94 dB Max @40GHz |
| **VSWR** | 1.5 Max |
| **Dk** | 1.49 |
| **Capacitance** | 80 pF/m |
| **Inductance** | 0.21 uH/m |
| **VOP** | 81% |
| **SE** | 90dB Min |
| **Voltage** | 500V@DC |
| **Temp. Phase** | 750PPM Max |
| **OT** | -55~+125℃ |

03

### Product Information

| | |
|---|---|
| **Product Number** | RCA220-PFWPF-L |
| **Product Type** | Ultra-Low Loss Phase Stable Cable Assembly |
| **Cable** | RCA220 |
| **Connector** | SMP(GPO) Female to SMP(GPO) Female |
| **Connector Body** | Gold plated beryllium copper |
| **Center Contact** | Gold plated beryllium copper |
| **Bend Radius** | 8.80mm |
| **Bend Radius (Rep.)** | 22.00mm |

**RCA220 Structure Characteristics**




| Structure | Material | ΦD(mm) |
|---|---|---|
| 1.Center Conductor | Single-core Silver-plated Copper | 0.51 |
| 2.Dielectric | LD-PTFE | 1.38 |
| 3.Inner shield | Silver-plated Copper Tape Wrapping | 1.58 |
| 4.Outer Shield | Silver-plated Copper Wire Braiding | 1.90 |
| 5.Jacket | Gray FEP | 2.20 |

**Product Selection and Loss Index @25℃**

| RFTOP P/N | 3GHz | 22GHz | 40GHz |
|---|---|---|---|
| RCA220-PFWPF-100 | 0.61 dB | 0.82 dB | 0.94 dB |
| RCA220-PFWPF-150 | 0.67 dB | 0.97 dB | 1.17 dB |
| RCA220-PFWPF-200 | 0.72 dB | 1.13 dB | 1.39 dB |
| RCA220-PFWPF-300 | 0.84 dB | 1.45 dB | 1.83 dB |
| RCA220-PFWPF-600 | 1.17 dB | 2.40 dB | 3.16 dB |
| RCA220-PFWPF-1M | 1.62 dB | 3.66 dB | 4.94 dB |