

**Part No. WCBA-WCA20929M.29MXXX Series**

**40GHz WCA209 Flexible Cable Assembly 2.92mm(M)-2.92mm(M)**



**Features:**

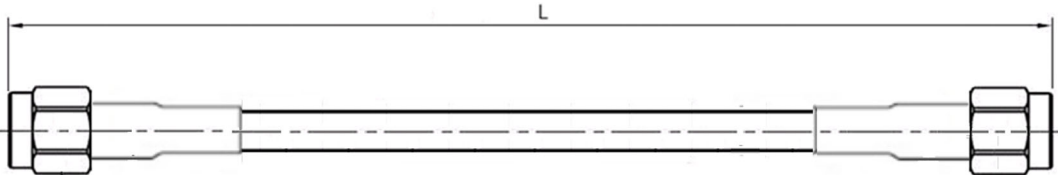
- Low Insertion Loss
- Good Shielding Effectiveness



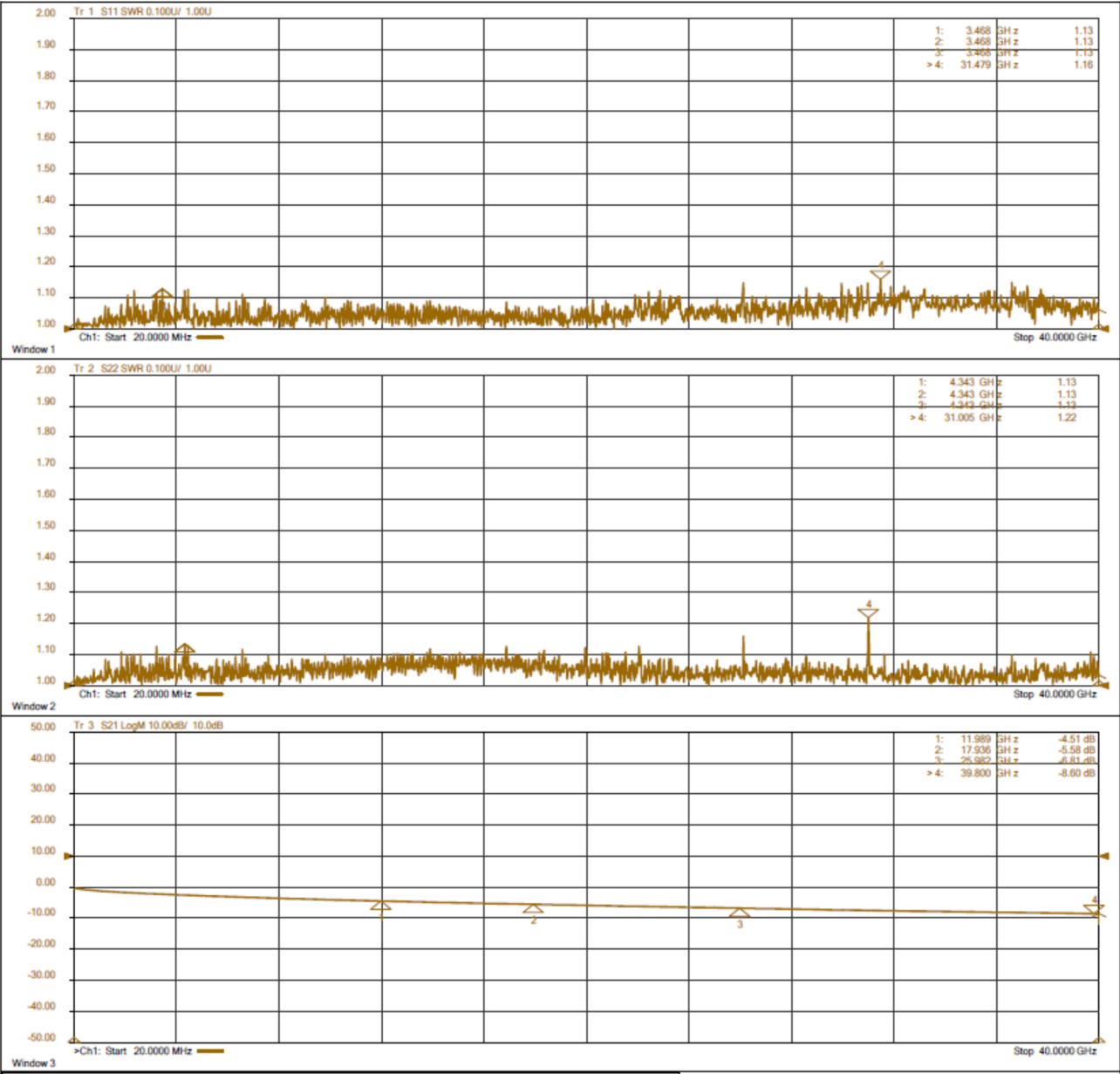
| WCA209 Raw Cable Electrical Specification |                                                               |       |       |       |       |       |       |       |      |
|-------------------------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|
| Operating Frequency                       | 40GHz                                                         |       |       |       |       |       |       |       |      |
| Frequency                                 | 1                                                             | 4     | 6     | 8     | 10    | 18    | 26.5  | 40    | GHz  |
| Attenuation                               | 0.278                                                         | 0.567 | 0.704 | 0.816 | 0.928 | 1.269 | 1.542 | 1.975 | dB/m |
| Power                                     | 510                                                           | 250   | 201   | 177   | 153   | 112   | 97    | 72    | W    |
| Velocity of Propagation                   | 82%                                                           |       |       |       |       |       |       |       |      |
| Shielding Effectiveness                   | 90dB min.                                                     |       |       |       |       |       |       |       |      |
| Phase Stability                           | $\pm 3^\circ @ 18\text{GHz}$ , $\pm 5^\circ @ 26.5\text{GHz}$ |       |       |       |       |       |       |       |      |
| Amplitude Stability                       | $\pm 0.1 \text{ dB} @ 18\text{GHz}$                           |       |       |       |       |       |       |       |      |
| Impedance                                 | 50 ohm                                                        |       |       |       |       |       |       |       |      |
| Min. Static Bending Radius                | 20.0mm                                                        |       |       |       |       |       |       |       |      |
| Min. Dynamic Bending Radius               | 40.0mm                                                        |       |       |       |       |       |       |       |      |

| WCA209 Raw Cable Mechanical / Material Specification |                            |          |
|------------------------------------------------------|----------------------------|----------|
| Description                                          | Material                   | Diameter |
| Center Conductor                                     | Silver Plated Copper       | 1.05 mm  |
| Dielectric                                           | Low Density PTFE           | 2.94mm   |
| Outer Conductor                                      | Silver Plated Copper Strip | 3.13 mm  |
| Outer Shield                                         | Silver Plated Copper       | 3.53 mm  |
| Jacket                                               | FEP                        | 4.00 mm  |

| WCA209 Raw Cable Environmental Specification |             |
|----------------------------------------------|-------------|
| Operating Temperature                        | -55 ~+165°C |

| Cable Assembly Specification                                                                                      |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 40GHz WCA209 Flexible Cable Assembly 2.92mm(M)-2.92mm(M)                                                          |                                                                                    |
| Part No.                                                                                                          | WCBA-WCA20929M.29MXXX<br>(XXX:Length,Unit: Meters)                                 |
| Frequency                                                                                                         | 40GHz (max.)                                                                       |
| Connection 1                                                                                                      | 2.92mm Male                                                                        |
| Connection 2                                                                                                      | 2.92mm Male                                                                        |
| VSWR                                                                                                              | 1.3:1(max.)                                                                        |
| Outline<br>(Unit: Meters)<br>Unless Otherwise Specified<br>Linearity Tolerance:<br>100~200mm:±8mm<br>>200mm:±1.5% |  |

Test Curve



2.92mm(M)-2.92mm(M) 4M