

**Part No. WCBA-WCA08SM.SMXXX Series**

**18GHz WCA08 Flexible Cable Assembly SMA(M)-SMA(M)**



**Features:**

- Low VSWR
- Low Insertion Loss
- High Reliability



**WCA08 Raw Cable Electrical Specification**

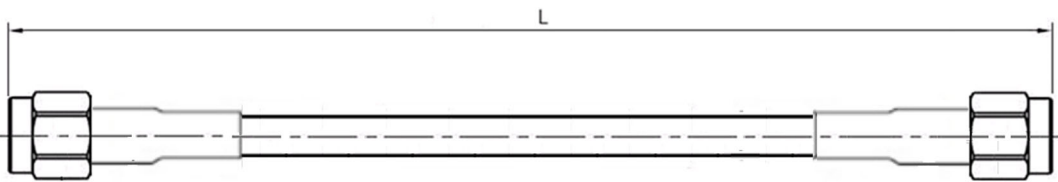
|                                   |            |      |      |      |      |      |      |           |
|-----------------------------------|------------|------|------|------|------|------|------|-----------|
| Cut-off Frequency                 | 19GHz      |      |      |      |      |      |      |           |
| Max. Operating Frequency          | 18GHz      |      |      |      |      |      |      |           |
| Frequency                         | 1          | 4    | 6    | 8    | 10   | 12.4 | 18   | GHz       |
| Attenuation                       | 0.18       | 0.37 | 0.45 | 0.53 | 0.59 | 0.66 | 0.81 | dB/m Typ. |
| Power                             | 1604       | 788  | 638  | 549  | 488  | 436  | 357  | Watts     |
| Velocity of propagation           | 83%        |      |      |      |      |      |      |           |
| Shielding Effectiveness           | 90 dB min. |      |      |      |      |      |      |           |
| Min. Bending Radius: installation | 38 mm      |      |      |      |      |      |      |           |
| Min. Bending Radius: Repeated     | 76mm       |      |      |      |      |      |      |           |
| Impedance                         | 50 ohm     |      |      |      |      |      |      |           |

**WCA08 Raw Cable Mechanical/ Material Specification**

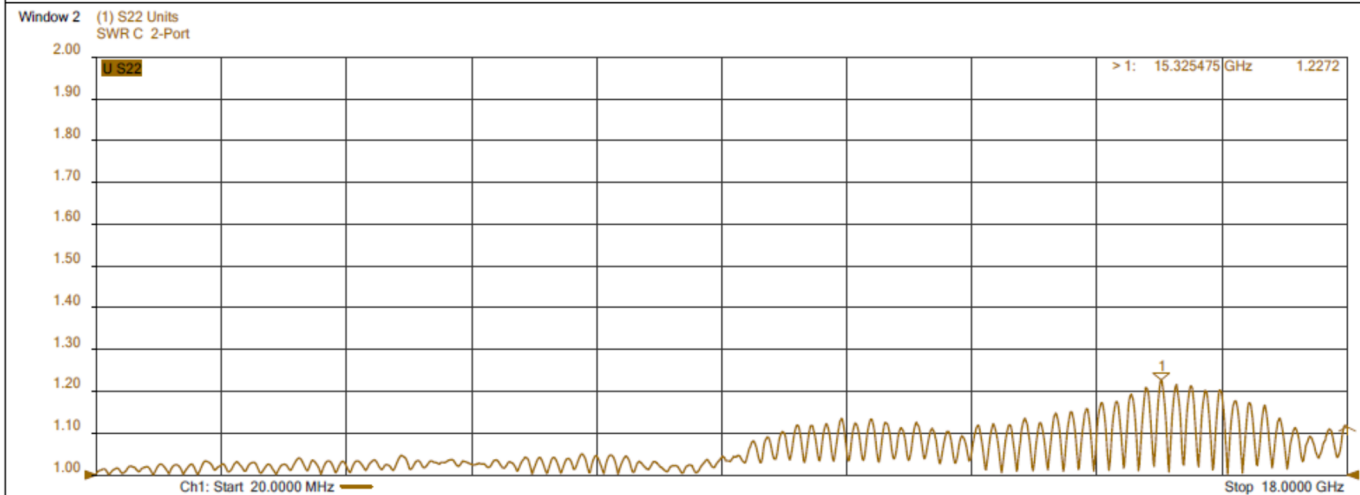
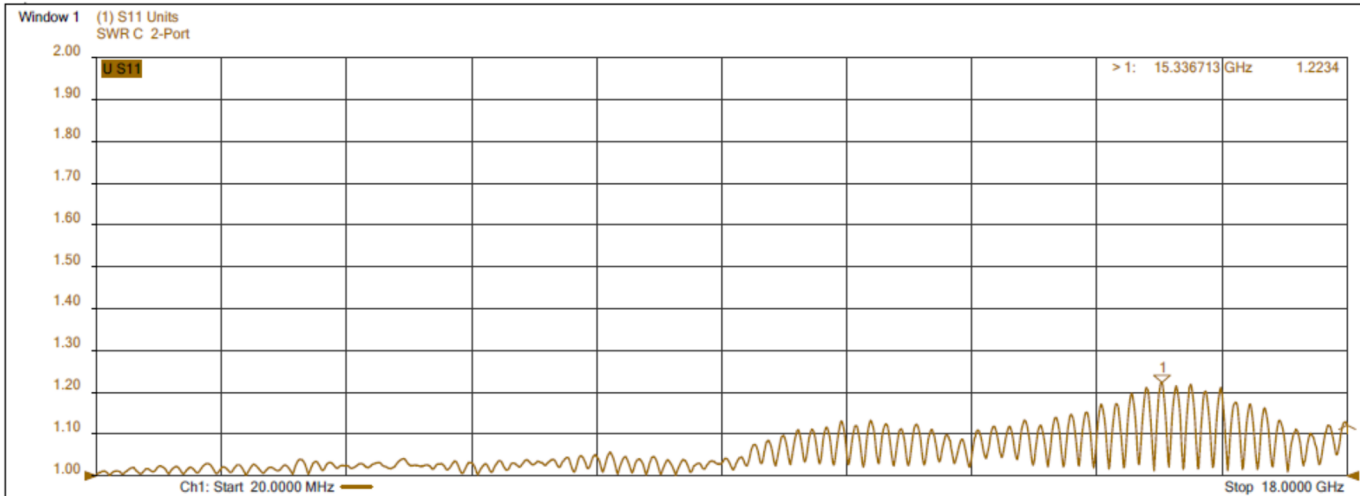
| Description      | Diameter | Material                   |
|------------------|----------|----------------------------|
| Center Conductor | 2.39 mm  | Silver Plated Copper       |
| Dielectric       | 6.25mm   | LD-PTFE                    |
| Inner Shield     | 6.49mm   | Silver Plated Copper Strip |
| Outer Shield     | 7.06 mm  | Silver Plated Copper       |
| Jacket           | 7.65mm   | PFA                        |

**WCA08 Raw Cable Environmental Specification**

|                       |             |
|-----------------------|-------------|
| Operating Temperature | -55 ~+165°C |
|-----------------------|-------------|

| Cable Assembly Specification                                                                                                    |                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 18GHz WCA08 Flexible Cable Assembly SMA(M)-SMA(M)                                                                               |                                                                                    |
| Part No.                                                                                                                        | WCBA-WCA08SM.SMXXX<br>(XXX:Length,Unit: Meters)                                    |
| Frequency                                                                                                                       | 18GHz (max.)                                                                       |
| Connection 1                                                                                                                    | SMA Male                                                                           |
| Connection 2                                                                                                                    | SMA Male                                                                           |
| VSWR                                                                                                                            | 1.25:1(max.)                                                                       |
| <b>Outline</b><br><b>(Unit: Meters)</b><br>Unless Otherwise Specified<br>Linearity Tolerance:<br>100~200mm:±8mm<br>>200mm:±1.5% |  |

Test Report



SMA(M)-SMA(M) 60cm