

## CWS1 Ultra Low Loss Phase Stable Flexible Cable Assemblies

### Construction

| Item             | Dimension(mm) | Material                       |
|------------------|---------------|--------------------------------|
| Center conductor | 1.02          | silver-plated copper           |
| Dielectric       | 3.07          | Low Density PTFE               |
| Inner shield     | 3.27          | silver-plated copper shield    |
| Middleshield     | 3.43          | High temperature aluminum thin |
| Outershield      | 3.94          | silver-plated copper braid     |
| Jacket           | 4.60          | MFA                            |



### Electrical Specification

|   |      |
|---|------|
| Frequency(GHz)  | 26.5 |
| Cutoff Frequency(GHz)   | 35   |
| Impedance(Ohms)   | 50   |
| Velocity  | 76%  |
| Shielding Effectiveness(dB)   | 100  |
| Operating Voltage(V,DC)   | 1000 |
| Mechanical Phase (°) 2°@6GHz/ 5.5 °@18GHz<br>(360 degree wrap around repeat bend radius ) |      |
| Phase Change vs . Temp (PPM @-55°C-85°C)  | 1200 |

### Mechanical Specification

|                 |          |
|-----------------|----------|
| Bend Radius(mm) | 18.4     |
| Weight (Kg/M)   | 0.050    |
| Temperature(°C) | -55~+225 |

### Attenuation and Power Handling

@+25°C and sea level

| Frequency MHz | dB/100m | Power kW |
|---------------|---------|----------|
| 500           | 24.89   | 0.809    |
| 1000          | 35.37   | 0.569    |
| 2400          | 55.31   | 0.364    |
| 3000          | 62.03   | 0.330    |
| 6000          | 88.78   | 0.230    |
| 8000          | 103.16  | 0.195    |
| 10000         | 115.97  | 0.174    |
| 12400         | 129.70  | 0.155    |
| 18000         | 154.35  | 0.129    |
| 26500         | 194.93  | 0.103    |