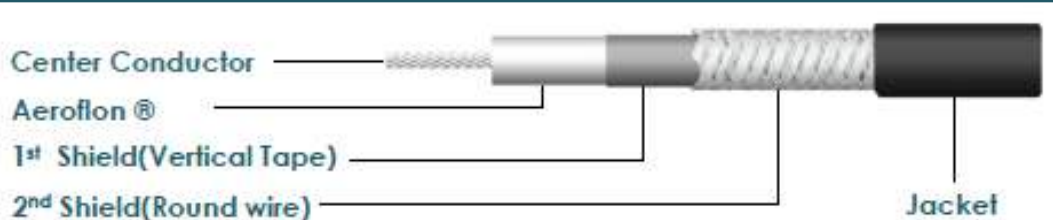


# 11S8GD (DC ~ 8GHz)

## Construction



| Part | Material                                 | Diameter                     |   |
|------|--|------------------------------|---|
| 1    | Center Conductor                         | Silver Plated Copper [Solid] | $\Phi$ 1.12 [mm]<br>$\Phi$ 0.044 [inch]                       |
| 2    | Dielectric                               | Aeroflon ® [Extruded]        |   |
| 3    | 1 <sup>st</sup> / 2 <sup>nd</sup> Shield | Mylar tape & Copper wire     |   |
| 4    | Jacket                                   | High Temperature Resin       | $\Phi$ 5.20 $\pm$ 0.1 [mm]<br>$\Phi$ 0.204 $\pm$ 0.003 [inch] |

## Electrical & Mechanical specification

|                             |                                      |
|-----------------------------|--------------------------------------|
| Characteristic Impedance    | 50 $\pm$ 1 $\Omega$                  |
| Operating Frequency         | DC to 8 GHz                          |
| Temperature                 | -50 $^{\circ}$ C ~ +135 $^{\circ}$ C |
| Velocity of Propagation     | 77% nominal                          |
| Minimum Bend Radius         | 25 mm / 0.98 inch                    |
| Weight [g/m]                | 50.6                                 |
| Shielding Effectiveness     | <-100 dB                             |
| Phase Stability vs. Flexure | 2 $^{\circ}$ max. @8GHz              |
| Loss Stability vs. Flexure  | $\Delta$ 0.05dB to 8GHz              |
| Available Connector         | SMA / N                              |

|   |           |
|---|-----------|
| Connector 1                               | SMAFST    |
| Connector 2                               | SMAFST    |
| Insertion Loss Typ.<br>(@ Max Freq.)      | 1.27 dB/m |
| Insertion Loss Guarantee<br>(@ Max Freq.) | 1.38 dB/m |

Microwave Cable

DC ~ 8GHz phase stable cable