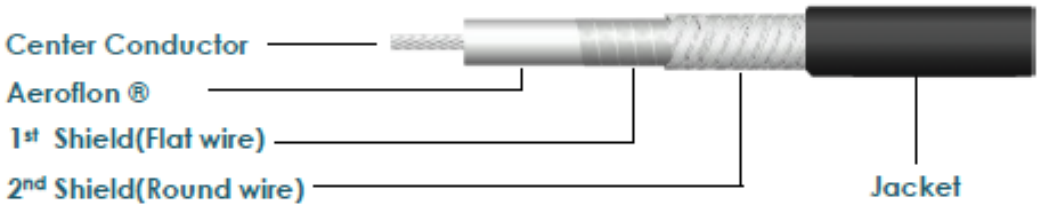


# 9S40 (DC ~ 40GHz)

## Construction



Center Conductor  
Aeroflon ®  
1<sup>st</sup> Shield (Flat wire)  
2<sup>nd</sup> Shield (Round wire)  
Jacket

| Part | Material                                 | Diameter                                                                    |
|------|------------------------------------------|-----------------------------------------------------------------------------|
| 1    | Center Conductor                         | Silver Plated Copper [Stranded]<br>Φ 19 / 0.18 [mm]<br>Φ 19 / 0.0070 [inch] |
| 2    | Dielectric                               | Aeroflon ® [Extruded]                                                       |
| 3    | 1 <sup>st</sup> / 2 <sup>nd</sup> Shield | Silver Plated Copper                                                        |
| 4    | Jacket                                   | Ruggedized Aramid Yarn<br>Φ 5.00 ± 0.1 [mm]<br>Φ 0.188 ± 0.003 [inch]       |

## Electrical & Mechanical specification

|                             |                   |
|-----------------------------|-------------------|
| Characteristic Impedance    | 50 ± 1 Ω          |
| Operating Frequency         | DC to 40GHz       |
| Temperature                 | -50 °C ~ +135 °C  |
| Velocity of Propagation     | 77% nominal       |
| Minimum Bend Radius         | 25 mm / 0.98 inch |
| Weight [g/m]                | 44.4              |
| Shielding Effectiveness     | <-100 dB          |
| Phase Stability vs. Flexure | 12° max. @40GHz   |
| Loss Stability vs. Flexure  | Δ 0.1dB to 40GHz  |
| Available Connector         | 2P4 / 2P92        |

|                                           |           |
|-------------------------------------------|-----------|
| Connector 1                               | 2P4FST    |
| Connector 2                               | 2P4FST    |
| Insertion Loss Typ.<br>(@ Max Freq.)      | 2.80 dB/m |
| Insertion Loss Guarantee<br>(@ Max Freq.) | 3.06 dB/m |

Microwave Cable

DC ~ 40GHz phase stable cable