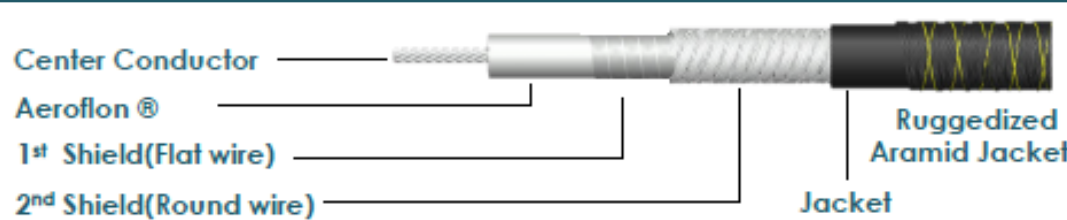


# 7A50D (DC ~ 50GHz)

## Construction



Part	Material	Diameter	
1	Center Conductor	Silver Plated Copper [Solid]	$\Phi$ 0.7 [mm] $\Phi$ 0.027 [inch]
2	Dielectric	Aeroflon® [Extruded]	
3	1 <sup>st</sup> / 2 <sup>nd</sup> Shield	Silver Plated Copper	
4	Jacket	Ruggedized Aramid Yarn	$\Phi$ 4.60 $\pm$ 0.1 [mm] $\Phi$ 0.185 $\pm$ 0.003 [inch]

## Electrical & Mechanical specification

Characteristic Impedance	50 $\pm$ 1 $\Omega$
Operating Frequency	DC to 50 GHz
Temperature	-50 $^{\circ}$ C ~ +135 $^{\circ}$ C
Velocity of Propagation	77% nominal
Minimum Bend Radius	20 mm / 0.79 inch
Weight [g/m]	34.1
Shielding Effectiveness	<-100 dB
Phase Stability vs. Flexure	15 $^{\circ}$ max. @50GHz
Loss Stability vs. Flexure	$\Delta$ 0.1dB to 50GHz
Available Connector	2P4

Connector 1	2P4FST
Connector 2	2P4FST
Insertion Loss Typ. (@ Max Freq.)	4.20 dB/m
Insertion Loss Guarantee (@ Max Freq.)	4.59 dB/m

Microwave Cable

DC ~ 50GHz phase stable cable