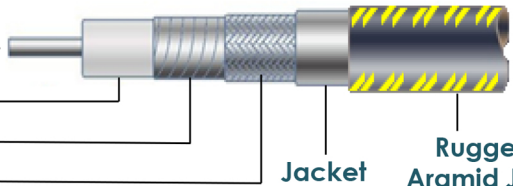


DC-40GHz Cable with Ruggedized Aramid Jacket

Construction



Stranded

Center Conductor

Aeroflon®

1st Shield (Flat wire)

2nd Shield (Round wire)

Jacket

Ruggedized Aramid Jacket

Part	Material	Diameter
1	Center Conductor	Silver Plated Copper [Stranded] Φ 19 / 0.18 [mm] Φ 19 / 0.0070 [inch]
2	Dielectric	Aeroflon® [Extruded]
3	1 st / 2 nd Shield	Silver Plated Copper
4	Jacket	Ruggedized Aramid Yarn Φ 5.70 ± 0.1 [mm] Φ 0.200 ± 0.003 [inch]

Electrical & Mechanical specification

Characteristic Impedance	50 ± 1 Ω
Operating Frequency	DC to 40 GHz
Temperature	-50 °C ~ +135 °C
Velocity of Propagation	77% nominal
Minimum Bend Radius	25 mm / 0.98 inch
Weight [g/m]	60
Shielding Effectiveness	<-90 dB
Phase Stability vs. Flexure	12° max. @40GHz
Loss Stability vs. Flexure	Δ 0.1dB to 40GHz
Available Connector	2.92mm (K)

Raw Cable Insertion Loss [25°C, at Sea Level]			Average Power Rating [CW, 25°C, at Sea Level]	
Frequency	[dB/m]	[dB/FT]	Frequency	[Watt]
1 GHz	- 0.34	- 0.104	1 GHz	369
3 GHz	- 0.62	- 0.189	3 GHz	213
6 GHz	- 0.88	- 0.268	6 GHz	151
12 GHz	- 1.30	- 0.396	12 GHz	107
18 GHz	- 1.65	- 0.503	18 GHz	87
28 GHz	- 2.10	- 0.640	28 GHz	70
40 GHz	- 2.60	- 0.793	40 GHz	59