

DC-40 GHz Phase Stable Low Loss Cables

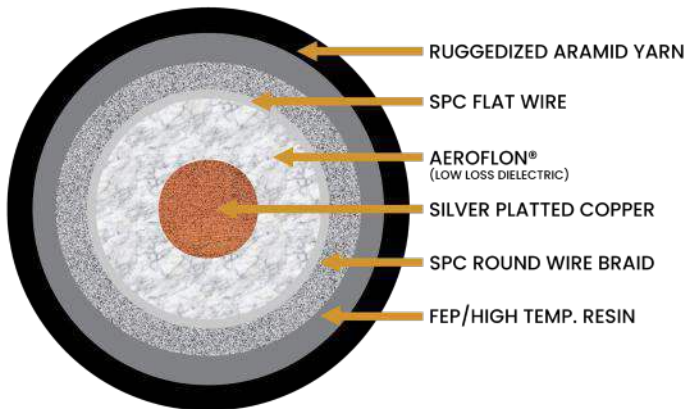
FEATURES

- The best insertion loss and high phase stability
- Excellent flexibility with 0.220 inch jacket thickness
- Available with 2.92mm and 2.4mm connectors
- Cable insertion Loss: -0.610 dB per ft @ 40 GHz
- Low loss VSWR(1.30 Max), high reliability with Aramid Jacket
- Less than 1inch bend radius
- Phase stable over temp: -45°C ~ +135°C



ELECTRICAL & MECHANICAL SPECIFICATION

Characteristic Impedance	50 ± 1 Ω
Operating Frequency	DC to 40 GHz
Temperature	-45°C to +135 °C
Velocity of Propagation	77% nominal
Minimum Bend Radius	25mm / 0.98 inch
Weight (g/m)	48.6
Shielding Effectiveness	<-100dB
Phase Stability vs. Flexure	14° max. @ 40GHz
Loss Stability vs. Flexure	Δ 0.1dB to 40GHz
Available Connector	Standard: K Type (2.92mm) Also available: 2.4 mm



RAW CABLE INSERTION LOSS

(25°C @ SEA LEVEL)

Frequency	dB / m	dB / ft.
1 GHz	-0.34	-0.104
3 GHz	-0.62	-0.189
6 GHz	-0.88	-0.268
12 GHz	-1.30	-0.396
18 GHz	-1.65	-0.503
28 GHz	-2.10	-0.546
40 GHz	-2.60	-0.610

AVERAGE POWER RATING

(CW, 25°C @ SEA LEVEL)

Frequency	Watt
1 GHz	665
3 GHz	371
6 GHz	272
12 GHz	211
18 GHz	192
28 GHz	157
40 GHz	130

ORDERING INFORMATION

Part Number (2.92mm to 2.92)	Length
K-LLPSAJ-40-K-24	24"
K-LLPSAJ-40-K-36	36"
K-LLPSAJ-40-K-60	60"

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Contact factory for additional lengths and connector configurations.