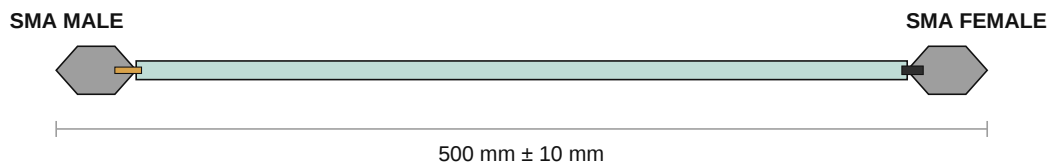


KL-220A-SMAM-SMAF-500

SMA Male to SMA Female, 500 mm — RF Cable Assembly

**Assembly Configuration**

Base Cable	Connector A	Connector B	Length
KL-220A	SMA Male	SMA Female	500 mm ± 10 mm

Cable Construction

Element	Dimension (mm)	Material
Center Conductor	0.50	Silver-Plated Copper
Dielectric	1.38	Low-Density PTFE
Inner Shield	1.54	Silver-Plated Copper Tape
Outer Shield	1.95	Silver-Plated Copper Braid
Outer Jacket	2.20	Gray PFA (Custom Colors Available)

Electrical Performance (Assembly)

Parameter	Value
Frequency Range	DC – 26.5 GHz (connector-limited)
Characteristic Impedance	50 Ω
VSWR (Assembly, Typical)	≤ 1.20 : 1
Insertion Loss @ 1 GHz	≤ 0.35 dB (cable + connectors, typical)
Insertion Loss @ 8 GHz	≤ 1.00 dB (cable + connectors, typical)
Insertion Loss @ 26.5 GHz	≤ 1.85 dB (cable + connectors, typical)
Shielding Effectiveness	> 90 dB
Connector Mating Cycles	500 typical (SMA interface)
Recommended Mating Torque	0.9 – 1.1 N·m (8 – 10 in-lb)

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Assembly Weight	Operating Temperature
11 mm	22 mm	0.008 kg (500 mm assembly)	–55°C ~ +125°C

Ordering & Part Number Key

KL-220A-SMAM-SMAF-500 — Format: KL-[Cable Series]-[Connector A][Gender]-[Connector B][Gender]-[Length mm]. Gender: M = Male, F = Female (required on both ends). Connector options are limited by cable diameter — contact us to confirm compatibility, or for lengths and connectors not listed here.