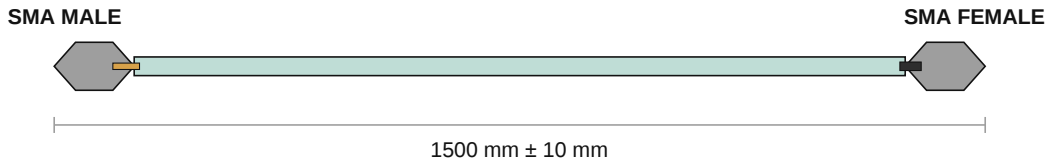


**KL-830A-SMAM-SMAF-1500**

SMA Male to SMA Female, 1500 mm — RF Cable Assembly

**Assembly Configuration**

| Base Cable | Connector A | Connector B | Length          |
|------------|-------------|-------------|-----------------|
| KL-830A    | SMA Male    | SMA Female  | 1500 mm ± 10 mm |

**Cable Construction**

| Element          | Dimension (mm) | Material                            |
|------------------|----------------|-------------------------------------|
| Center Conductor | 2.44           | Silver-Plated Copper                |
| Dielectric       | 6.50           | Low-Density PTFE                    |
| Inner Shield     | 6.90           | Silver-Plated Copper Tape           |
| Outer Shield     | 7.65           | Silver-Plated Copper Braid          |
| Outer Jacket     | 8.30           | FEP, Teal (Custom Colors Available) |

**Electrical Performance (Assembly)**

| Parameter                 | Value                                   |
|---------------------------|-----------------------------------------|
| Frequency Range           | DC – 18 GHz                             |
| Characteristic Impedance  | 50 Ω                                    |
| VSWR (Assembly, Typical)  | ≤ 1.25 : 1                              |
| Insertion Loss @ 1 GHz    | ≤ 0.35 dB (cable + connectors, typical) |
| Insertion Loss @ 8 GHz    | ≤ 0.75 dB (cable + connectors, typical) |
| Insertion Loss @ 18 GHz   | ≤ 1.10 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 |
|--------------------|---------------------|-----------------------------|-----------------------|
| 42 mm              | 83 mm               | 0.243 kg (1500 mm assembly) | –55°C ~ +165°C        |

**Ordering & Part Number Key**

**KL-830A-SMAM-SMAF-1500** — 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.