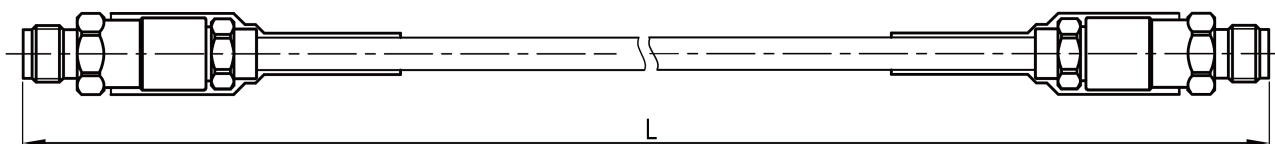


## Ultra-Low Loss Phase Stable Cable Assembly, RCA360-KFKF-L 2.92mm Female to 2.92mm Female, DC-40GHz, ø3.6mm

Dimensions(mm) Tolerance $\pm 1\%$



### Electrical & Environmental

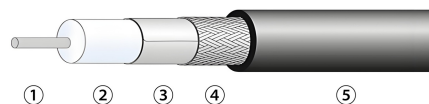
|                         |                        |
|-------------------------|------------------------|
| Frequency Range         | DC-40GHz, 50 Ohms      |
| Avg Power@25°C          | 74W @40GHz, 203W @6GHz |
| Insertion Loss@1M       | 3.36 dB Max @40GHz     |
| VSWR                    | 1.3 Max                |
| Dielectric Constant     | 1.49                   |
| Capacitance             | 80 pF/m                |
| Inductance              | 0.19 uH/m              |
| Velocity of Propagation | 83%                    |
| Shielding Effectiveness | 90dB Min               |
| Withstand Voltage       | 1000V@DC               |
| Temperature Phase       | 750 PPM Max            |
| OT                      | -55~+165°C             |

### Product Information

|                        |                                            |
|------------------------|--------------------------------------------|
| Product Number         | RCA360-KFKF-L                              |
| Product Type           | Ultra-Low Loss Phase Stable Cable Assembly |
| Cable                  | RCA360                                     |
| Connector              | 2.92mm(K,SK) Female to 2.92mm(K,SK) Female |
| Connector Body         | Passivated stainless steel                 |
| Center Contact         | Gold plated beryllium copper               |
| Bend Radius            | 18.00mm                                    |
| Bend Radius (Repeated) | 36.00mm                                    |

Customized services: including connectors, length, phase matching/tracking, time delay, and better electrical performance.

### RCA360 Structure Characteristics



| Structure          | Material                           | ΦD(mm) |
|--------------------|------------------------------------|--------|
| 1.Center Conductor | Single-core Silver-plated Copper   | 0.91   |
| 2.Dielectric       | LD-PTFE                            | 2.50   |
| 3.Inner shield     | Silver-plated Copper Tape Wrapping | 2.66   |
| 4.Outer Shield     | Silver-plated Copper Wire Braiding | 3.11   |
| 5.Jacket           | Gray FEP                           | 3.60   |

### RCA360 Replacement Model

|            |         |
|------------|---------|
| Gore       | CXN3507 |
| IW         | 1501    |
| Focusimple | FSB-360 |

### Product Selection and Loss Index @25°C

| RFTOP P/N        | 3GHz    | 22GHz   | 40GHz   |
|------------------|---------|---------|---------|
| RCA360-KFKF-300  | 1 dB    | 1.35 dB | 1.57 dB |
| RCA360-KFKF-600  | 1.19 dB | 1.9 dB  | 2.33 dB |
| RCA360-KFKF-1M   | 1.46 dB | 2.63 dB | 3.36 dB |
| RCA360-KFKF-1.5M | 1.78 dB | 3.55 dB | 4.64 dB |
| RCA360-KFKF-2M   | 2.11 dB | 4.46 dB | 5.91 dB |