



# 40GHZ LOW LOSS RF COAX CABLE ASSEMBLIES WITH 2.92mm (K) STAINLESS STEEL CONNECTORS



## 40GHz Low Loss Coaxial Cables

### Features:

- Strain Relief:** Heavy duty adhesive strain relief
- Center Conductor:** Silver-plated solid copper
- Inner Braid:** Flat Silver plated copper strip
- Outer Braid:** PC (Round Silver-plated copper braid)
- Dielectric:** Low density microporous PTFE (Polytetrafluoroethylene)
- Jacket:** FEP (Fluorinated Ethylene Propylene)
- Cable Outer Dia.:** 0.160 (4.06mm)
- Connectors:** SST, corrosion-resistant 303 stainless steel per ASTM-A582 (Passivated finish per SAE-AMS-2700)
- Center Pin:** GPBC ( Gold-plated beryllium copper)
- Jacket Color:** Grey
- Operating Temperature:** -55°C to +85°C (2.92mm (K)) (Available in -55°C to +125°C, HF SMA Only)
- Minimum Bend Radius:** 1.0"

*Custom Lengths Available*

### Mechanical Specifications:

- Connector Corrosion (salt spray):** MIL-STD-202, method 101, test cond. B 5% salt solution.
- Connector Durability:** 500 connections Min.

### Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** Up to 40GHz
- Insertion Loss:** <0.9 dB/ft at 40GHz
- VSWR:** <1.35 to 40GHz
- Max Oper. Volt:** 500V RMS
- Nominal Capacitance:** 27.0 pF/ft
- Velocity of Propagation:** 76%
- RF Shielding:** < -90 dB
- Attenuation (dB/ft):** 0.08 Max. at 500MHz  
\*connector loss not included  
0.17 Max at 2GHz  
0.45 Max at 12GHz  
0.57 Max at 18GHz  
0.70 Max at 26GHz  
0.90 Max at 40GHz



Electrical Test Data Supplied With Each Cable Assembly

## 2.9mm(K) / 2.9mm(K) [Straight/Straight]

Part Number	Description	Length
CCK40-MM-160-30	40GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight	30"
CCK40-MM-160-36	40GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight	36"
CCK40-MM-160-39.4	40GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight	39.4"
CCK40-MM-160-48	40GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight	48"





**CRYSTEK**  
**MICROWAVE**  
A DIVISION OF CRYSTEK CORPORATION

**40GHZ LOW LOSS RF  
COAX CABLE ASSEMBLIES  
WITH 2.92mm (K)  
STAINLESS STEEL  
CONNECTORS**

