



# CRYSTEK MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

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



### 40 GHz 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 Diameter:** 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:** -40°C to +85°C

**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 Minimum

#### Electrical Specifications:

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



Electrical Test Data Supplied With Each Cable Assembly

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

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



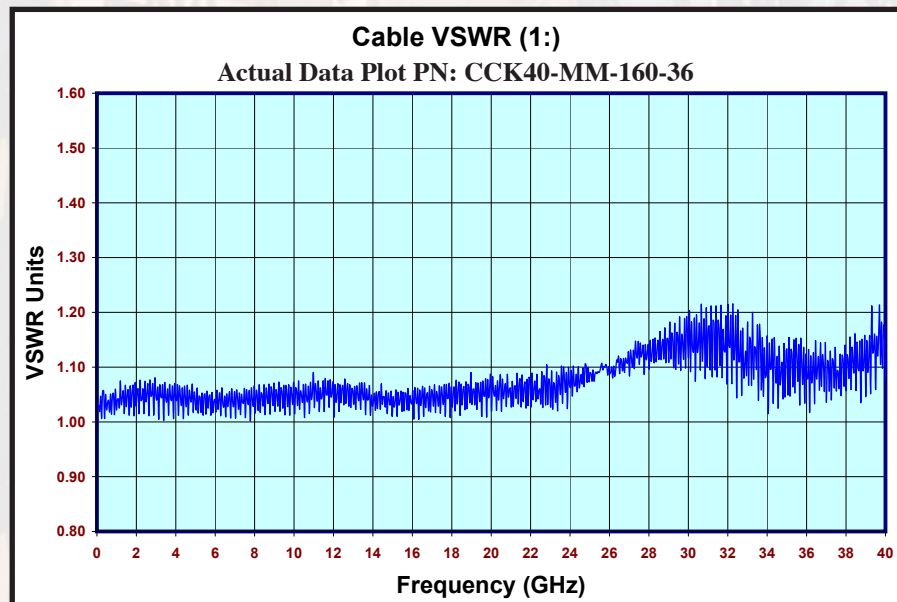
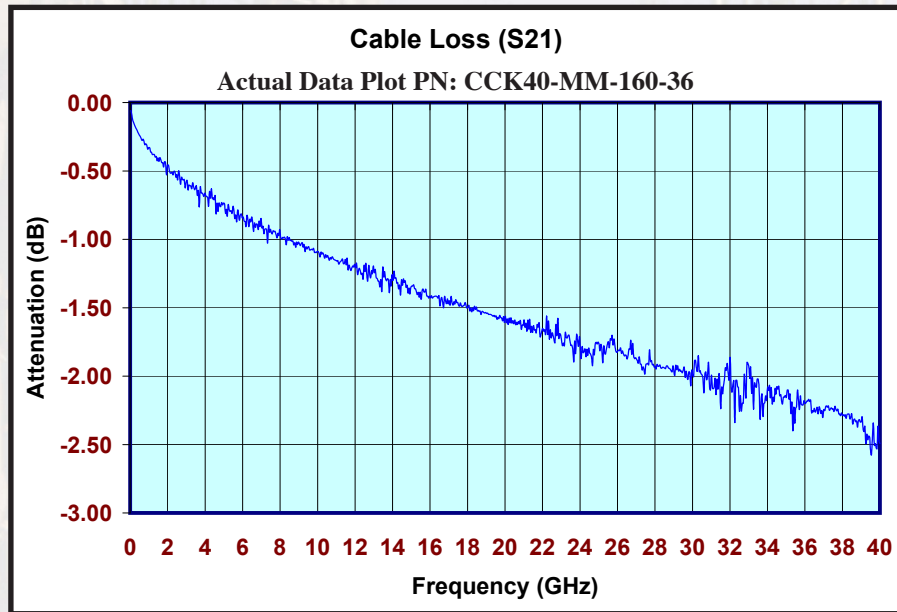
**CRYSTEK  
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