



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

**HIGH POWER, LOW LOSS  
 UT-250 SEMI-RIGID COAX  
 CABLE ASSEMBLY WITH  
 7/16 CONNECTORS**

**UT-250 High Power, Low Loss Semi-Rigid Coaxial Assemblies**



**Features:**

- Center Conductor:** SPC (Silver-Plated Solid Copper)
- Outer Conductor:** Semi-rigid copper
- Dielectric:** PTFE (Polytetrafluoroethylene)
- Cable Outer Diameter:** 0.250" (6.35mm)
- Connectors:** Silver-plated brass
- Center Pin:** Silver-plated phosphor bronze
- Operating Temperature:** -40°C to +85°C
- Minimum Bend Radius:** 0.375"
- Assembly Length:** 60" Max

**Electrical Specifications:**

- Impedance:** 50 Ohms
- Frequency (7/16 Conn.):** Up to 6 GHz
- Insertion Loss:** <0.07 dB/ft at 1 GHz
- VSWR:** <1.3 to 6 GHz
- Voltage Withstanding:** 7.5k VRMS @ 60 Hz
- Corona Extinction Volt.:** 3k VRMS @ 60 Hz
- Nominal Capacitance:** 29.0 pF/ft
- Velocity of Propagation:** 70%
- Attenuation (dB/ft):** 0.05 Max at 500 MHz  
 \*connector loss not included 0.07 Max at 1 GHz  
 0.17 Max at 5 GHz  
 0.27 Max at 10 GHz

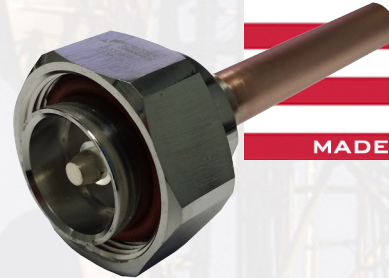
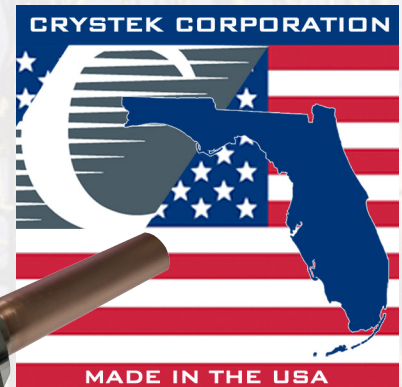
Power Handling (Watts): 914 Max at 1 GHz  
 (Watts CW at 20 degrees Celsius and Sea level)

**Mechanical Specifications:**

**Connector Durability:**  
 500 connections Minimum

Electrical Test Data Supplied With Each Cable Assembly

*Customer Specified Length*



**7/16 / 7/16 [Straight/Straight]**

Part Number	Description	Length
CCUT-MM-250-XX	Low Loss UT-250 Coax Cable, 7/16 Male/Male, Straight/Straight	Inches



**CRYSTEK**  
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