

## EZ Form Copper-Jacketed Semi-Rigid Cable

### ● EZ 141-CU-SP

#### SCOPE

This specification covers the requirement for EZ141-CU-SP, semi-rigid coaxial cable: .141 inch diameter 50 ohm semi-rigid cable with silver-plated copper center conductor, solid PTFE dielectric, silver plated seamless copper outer conductor.

#### MECHANICAL

**INNER CONDUCTOR:** .0362 +-0.007 inch diameter silver-plated copper wire (AWG #19)

**DIELECTRIC:** .1175 +- .001 inch, solid PTFE, per MIL-C-17

**OUTER CONDUCTOR:** .141 +0.002-.001 inch seamless copper tube per MIL-C-17, silver plated .0003 inch minimum per QQ-S-365

**BEND RADIUS:** .250 inch minimum for a 360 degree excursion

**WEIGHT:** 3.5 lbs. per 100 feet

**OPERATING TEMP:** -55° C to 125° C

#### ELECTRICAL

**CHARACTERISTIC IMPEDANCE:** 50 +- 1.0 ohms

**VELOCITY OF PROPAGATION:** 69.5% nominal

**DIELECTRIC CONSTANT:** 2.07 nominal

**VOLTAGE WITHSTANDING:** 5000 vrms @ 60 hz

**CORONA EXTINCTION VOLTAGE:** 1900 vrms @ 60 hz

**MAXIMUM OPERATING FREQUENCY:** 33 GHz

#### TYPICAL ATTENUATION:

Frequency(GHz)	db/100ft
0.5	8.0
1.0	12.0
5.0	29.0
10.0	44.0