

EZ Form Copper-Jacketed Semi-Rigid Cable

● EZ 86

SCOPE

This specification covers the requirement for EZ86, semi-rigid coaxial cable: .086 inch diameter 50 ohm coaxial cable with silver coated copper-clad steel center conductor, solid PTFE dielectric and seamless copper outer conductor.

MECHANICAL

INNER CONDUCTOR: .0201 +/- .0005 inch diameter silver-coated copper-clad steel wire, per ASTM B-501 (AWG #24)

DIELECTRIC: .066 +/- .002 inch diameter solid PTFE in accordance with MIL-C-17

OUTER CONDUCTOR: .0865 +/- .001 inch diameter seamless copper tubing in accordance with MIL-C-17

BEND RADIUS: .125 inch minimum for 360 degree excursion

WEIGHT: 1.5 lbs per 100 feet

OPERATING TEMP: -40° C to +125° C

ELECTRICAL

CHARACTERISTIC IMPEDANCE: 50 +/- 1.5 ohms

VELOCITY OF PROPAGATION: 69.5% nominal

DIELECTRIC CONSTANT: 2.07 nominal

VOLTAGE WITHSTANDING: 2500 vrms @ 60 hz

CORONA EXTINCTION VOLTAGE: 1500 vrms

MAXIMUM OPERATING FREQUENCY: 20 GHz

TYPICAL ATTENUATION:

Frequency(GHz)	db/100ft	Power (CW Watts)
0.5	15	180
1.0	22	130
5.0	50	54
10.0	80	35
20.0	130	20