

EZ Form Copper-Jacketed Semi-Rigid Cable

● EZ 34

SCOPE

This specification covers the requirement for EZ34, semi-rigid coaxial cable: .034 inch diameter 50 ohm with silver-plated copper-clad steel center conductor, solid PTFE dielectric, seamless copper outer conductor.

MECHANICAL

INNER CONDUCTOR: .008 +/- .0003 inch diameter solid silver-coated copper-clad steel wire, ANSI/ASTM B-501

DIELECTRIC: .026 +/- .001 inch diameter solid PTFE per MIL-C-17

OUTER CONDUCTOR: .034 +/- .001 inch diameter seamless copper per MIL-C-17

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

WEIGHT: .26 lbs per 100 feet

OPERATING TEMP: -55° C to +100° C

ELECTRICAL

CHARACTERISTIC IMPEDANCE: 50.0 +/- 3.0 ohms

VELOCITY OF PROPAGATION: 70.5% nominal

DIELECTRIC CONSTANT: 2.01 nominal

VOLTAGE WITHSTANDING: 2000 vrms @ 60 hz

CORONA EXTINGUISH VOLTAGE: 750 vrms

MAXIMUM OPERATING FREQUENCY: 148 GHz

TYPICAL ATTENUATION:

Frequency(GHz)	db/100ft	Power (CW Watts)
0.5	42	14
1.0	60	10
10.0	190	3
20.0	280	2