

SPECIFICATION

E FORM
Z CABLE
Z CORPORATION

285 WELTON STREET HAMDEN, CT . (203) 785-8215

DATE	REV.	TITLE	MIL-SPEC
12/30/99	-	EZ 141-TP-SJ	M17/130-00005

1.0 SCOPE

THIS SPECIFICATION COVERS THE REQUIREMENT FOR EZ 141-TP-SJ, SOFT-JACKETED SEMI-RIGID COAXIAL CABLE:
.141 INCH DIAMETER 50 OHM COAXIAL CABLE WITH SILVER-COATED COPPER-CLAD STEEL CENTER CONDUCTOR, SOLID PTFE DIELECTRIC AND TIN PLATED SEAMLESS COPPER OUTER CONDUCTOR.

2.0 MECHANICAL

INNER CONDUCTOR: .0362 +- .0007 INCH DIAMETER SILVER-COATED COPPER-CLAD STEEL WIRE, PER ASTM B-501 (AWG #19)

DIELECTRIC: .1175 +- .001 INCH DIAMETER SOLID PTFE IN ACCORDANCE WITH MIL-C-17

OUTER CONDUCTOR: .141 +.002 - .001 INCH DIAMETER SEAMLESS COPPER TUBING IN ACCORDANCE WITH MIL-C-17, TIN PLATED .0003 INCH MIN PER MIL-T-107027.

BEND RADIUS: .075 INCH MINIMUM FOR A 360 DEGREE EXCURSION

WEIGHT: 3.5 LBS PER 100 FEET

OPERATING TEMP.: -40° TO +125° C

3.0 ELECTRICAL

CHARATERISTIC IMPEDANCE: 50.0OHMS +- 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: 33.0 GHZ

TYPICAL ATTENUATION AND POWER:

FREQUENCY (GHz)	db/100ft	WATTS (CW)
0.5	8.0	600
1.0	12.0	450
5.0	28.5	180
10.0	44.0	120
20.0	67.0	70

PREPARED AND APPROVED BY :