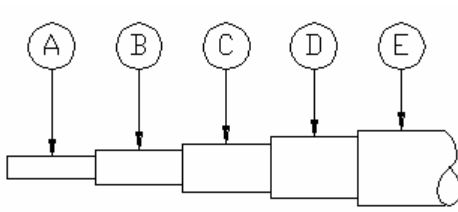


# TENSOLITE CABLE DATA SHEET

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ITEM	MATERIAL	SIZE
A. CENTER CONDUCTOR	SOLID SILVER-PLATED COPPER	0.036
B. DIELECTRIC:	PTFE	0.107
C. INNER BRAID:	HELICALLY-WRAPPED SILVER-PLATED COPPER	0.115
D. OUTER BRAID:	SILVER-PLATED ROUND COPPER BRAID	0.132
E. JACKET:	SOLID FEP, COLOR "SAW GRASS GREEN"	0.149

**MECHANICAL CHARACTERISTICS:**

OUTER CONDUCTOR INTEGRITY: 30 (tested 20lbs) POUNDS MINIMUM AXIAL PULL

MINIMUM BEND RADIUS (ONE TIME): 0.50 INCHES      FIXED INSTALLATION

TEMPERATURE RANGE: -60 / +200 DEGREES CELSIUS

WEIGHT MAXIMUM: 0.018 POUNDS PER FOOT

**ELECTRICAL CHARACTERISTICS:**

CENTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL

OUTER CONDUCTOR DC RESISTANCE: 4.03 OHMS / 100 FEET NOMINAL

NOMINAL IMPEDANCE: 50 OHMS

NOMINAL CAPACITANCE: 26.4 pf / FT.

NOMINAL INDUCTANCE: 0.066 uh / FT

NOMINAL VELOCITY OF PROPAGATION: 77.0 %

NOMINAL DELAY: 1.32 nS / FT.

MAXIMUM OPERATING VOLTAGE: 1732 VRMS

MAXIMUM CW POWER RATING: 20 WATTS AT      40 GHz

MAXIMUM RETURN LOSS: -19 dB AT      40 GHz

MAXIMUM INSERTION LOSS: 88.7 dB / 100 FT AT      40 GHz

NOMINAL INSERTION LOSS: 80.6 dB / 100 FT AT      40 GHz

To calculate maximum insertion loss at any frequency use the formula below:

11.48 times square root of freq. + 0.397 times freq. + 0.2 = dB/100'

RELATIVE SHIELDING: -90?? dB      DOUBLE SHIELDED

**FEATURES:** SEMI-RIGID REPLACEMENT CABLE  
EASILY FORMS INTO DESIRED SHAPE AND MAINTAINS ELECTRICAL PERFORMANCE

