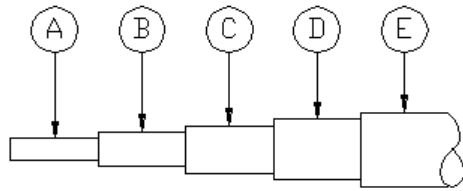


TENSOLITE CABLE DATA SHEET



CABLE CODE: 620
 CATEGORY: SEMI-FLEX(R) PLUS
 DESCRIPTION: .086 RIGID TYPE
 IMPEDANCE: 50 OHMS
 MAX. OD: 0.120 INCHES
 MAX. OPERATING FREQ.: 18 GHz.
 CUT OFF FREQ.: 62.0 GHz.
 CLAMP CABLE GROUP: N/A
 SOLDER CABLE GROUP: 600, 977
 CRIMP CABLE GROUP: N/A
 MIL SPEC: N/A
 FLORIDA PART X REF.: N/A

ITEM	MATERIAL	SIZE
A. CENTER CONDUCTOR	SILVER PLATED COPPER CLAD STEEL	0.020
B. DIELECTRIC:	SOLID PTFE	0.062
C. INNER BRAID:	COPPER / POLYESTER FOIL	0.072
D. OUTER BRAID:	TIN FILLED HIGH STRENGTH WIRE BRAID	0.087
E. JACKET:	GRAY TINT TRANSLUCENT POLYURETHANE	0.115

MECHANICAL CHARACTERISTICS:

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.13 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: 0.38 INCHES
 TEMPERATURE RANGE: -50 / +85 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.015 POUNDS PER FOOT

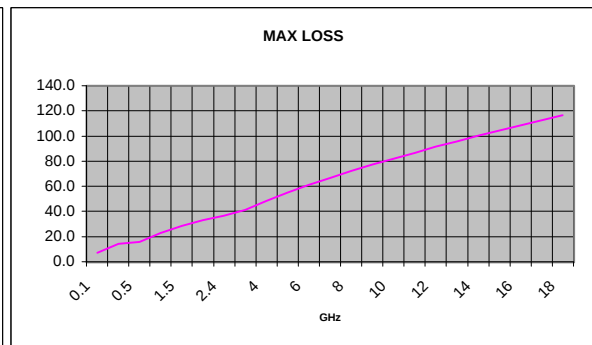
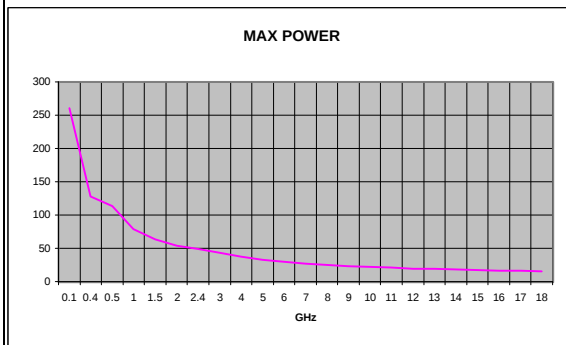
ELECTRICAL CHARACTERISTICS:

CENTER CONDUCTOR DC RESISTANCE 2.43 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE 0.29 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.7 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.7 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1000 VRMS
 MAXIMUM CW POWER RATING: 15 WATTS AT 18 GHz
 MAXIMUM RETURN LOSS: -22 dB AT 18 GHz
 MAXIMUM INSERTION LOSS: 116.7 dB / 100 FT AT 18 GHz
 NOMINAL INSERTION LOSS: 110.1 dB / 100 FT AT 18 GHz
 To calculate maximum insertion loss at any frequency use the formula below:

$$21.412 \text{ times square root of freq.} + 1.434 \text{ times freq.} + 0 = \text{dB}/100'$$
 RELATIVE SHIELDING: -100 dB DOUBLE SHIELDED

FEATURES: SEMI-RIGID REPLACEMENT CABLE

EASILY FORMS INTO DESIRED SHAPE AND MAINTAINS ELECTRICAL PERFORMANCE



Data subject to change

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