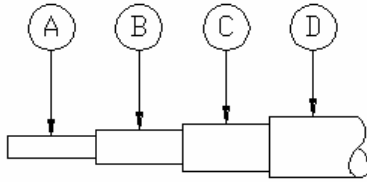


TENSOLITE CABLE DATA SHEET



CABLE CODE:	600
CATEGORY:	SEMI-FLEX(R)
DESCRIPTION:	.086 RIGID TYPE
IMPEDANCE:	50 OHMS
MAX. OD:	0.089 INCHES
MAX. OPERATING FREQ.:	40 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. OUTER BRAID:	COPPER / POLYESTER FOIL	0.072
D. JACKET:	TIN FILLED HIGH STRENGTH WIRE BRAID	0.087

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 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM:	0.011 POUNDS PER FOOT

ELECTRICAL CHARACTERISTICS:

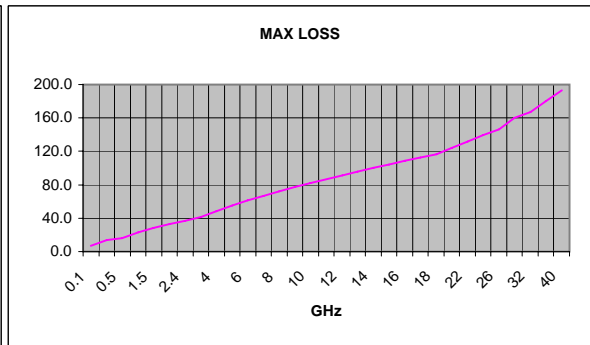
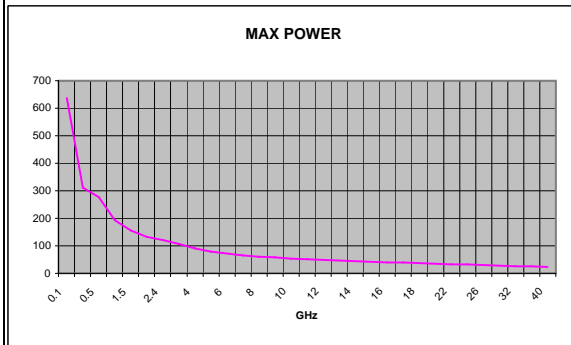
CENTER CONDUCTOR DC RESISTANCE	3.90 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE	0.29 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE:	50 OHMS
NOMINAL CAPACITANCE:	28.7 pf / FT.
NOMINAL INDUCTANCE:	0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION:	70.7 %
NOMINAL DELAY:	1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE:	1401 VRMS
MAXIMUM CW POWER RATING:	23 WATTS AT 40 GHz
MAXIMUM RETURN LOSS:	-16 dB AT 40 GHz
MAXIMUM INSERTION LOSS:	192.8 dB / 100 FT AT 40 GHz
NOMINAL INSERTION LOSS:	181.9 dB / 100 FT AT 40 GHz

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

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

-100 dB DOUBLE SHIELDED

FEATURES: SEMI-RIGID REPLACEMENT CABLE AVAILABLE ON TENSOLITE ASSEMBLIES ONLY
EASILY FORMS INTO DESIRED SHAPE AND MAINTAINS ELECTRICAL PERFORMANCE



Data subject to change

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