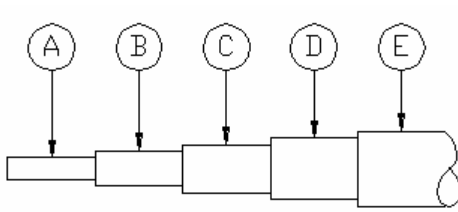


# TENSOLITE CABLE DATA SHEET

	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CABLE CODE:</td> <td>TLL40-1111A</td> </tr> <tr> <td>CATEGORY:</td> <td>LOW LOSS</td> </tr> <tr> <td>DESCRIPTION:</td> <td>N/A</td> </tr> <tr> <td>IMPEDANCE:</td> <td>50 OHMS</td> </tr> <tr> <td>MAX. OD:</td> <td>0.133 INCHES</td> </tr> <tr> <td>MAX. OPERATING FREQ.:</td> <td>40 GHz.</td> </tr> <tr> <td>CUT OFF FREQ.:</td> <td>49.0 GHz.</td> </tr> <tr> <td>CLAMP CABLE GROUP:</td> <td>N/A</td> </tr> <tr> <td>SOLDER CABLE GROUP:</td> <td>N/A</td> </tr> <tr> <td>CRIMP CABLE GROUP:</td> <td>N/A</td> </tr> <tr> <td>MIL SPEC:</td> <td>N/A</td> </tr> <tr> <td>FLORIDA PART X REF.:</td> <td>TLL40-1111A</td> </tr> </table>	CABLE CODE:	TLL40-1111A	CATEGORY:	LOW LOSS	DESCRIPTION:	N/A	IMPEDANCE:	50 OHMS	MAX. OD:	0.133 INCHES	MAX. OPERATING FREQ.:	40 GHz.	CUT OFF FREQ.:	49.0 GHz.	CLAMP CABLE GROUP:	N/A	SOLDER CABLE GROUP:	N/A	CRIMP CABLE GROUP:	N/A	MIL SPEC:	N/A	FLORIDA PART X REF.:	TLL40-1111A
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ITEM	MATERIAL	SIZE
A. CENTER CONDUCTOR	SOLID SILVER-PLATED COPPER	0.030
B. DIELECTRIC:	PTFE	0.087
C. INNER BRAID:	HELICALLY-WRAPPED SILVER-PLATED COPPER	0.096
D. OUTER BRAID:	SILVER-PLATED ROUND COPPER BRAID	0.116
E. JACKET:	SOLID FEP, COLOR "SAW GRASS GREEN"	0.128

**MECHANICAL CHARACTERISTICS:**

OUTER CONDUCTOR INTEGRITY: 20 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 1.10 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: 1411 VRMS

MAXIMUM CW POWER RATING: 18 WATTS AT 40 GHz

MAXIMUM RETURN LOSS: -19 dB AT 40 GHz

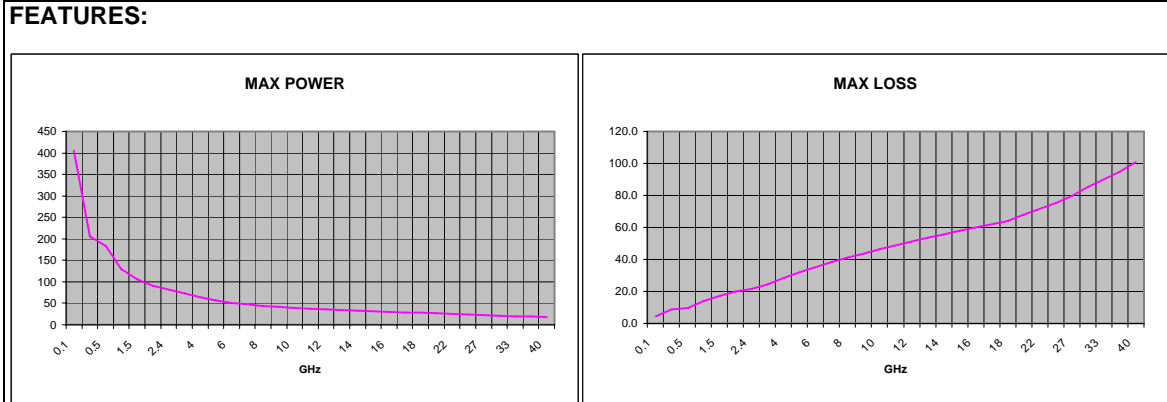
MAXIMUM INSERTION LOSS: 100.8 dB / 100 FT AT 40 GHz

NOMINAL INSERTION LOSS: 91.6 dB / 100 FT AT 40 GHz

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

13.283 times square root of freq. + 0.414 times freq. + 0.2 = dB/100'

RELATIVE SHIELDING: -90 dB DOUBLE SHIELDED



Data subject to change

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