

SEMI-FLEX® PLUS SERIES

Assembly Cable Code	OD
620	.112"
621	.180"
650	.100"
651	.151"



DESCRIPTION

SEMI-FLEX® "Plus" is a unique **ALTERNATIVE** to the use of semi-rigid coax. **SEMI-FLEX® "Plus"** enhances Tensolite's **SEMI-FLEX®** by using a clear polyurethane jacket over a tin filled wire braid outer conductor. A solid secondary outer conductor and semi-rigid style core ensure electrical performance comparable to semi-rigid. If your application calls for High Temperature, use our **SEMI-FLEX® Plus "HIGH TEMPERATURE"** 650 or 651 Series (-50 to 200° C) by adding our Blue FEP jacket.

No significant electrical degradation occurs when **SEMI-FLEX® "Plus"** is formed! The cable retains its' shape, making installations simple. And the outer jacket now allows the semi-rigid replacement to be used where space and possible shorting considerations prohibit the use of non-insulated cable assemblies. The product is available in standard lengths utilizing Tensolite's high performance anti-torque SMA.

SEMI-FLEX® "Plus" allows the user to have all the advantages of a hand formable cable and a flexible cable all in one. Eliminate tooling, drafting, purchasing and manufacturing problems all at once with **SEMI-FLEX® "Plus"**.

APPLICATIONS

- Replacement for OEM semi-rigid
- RFI and leakage sensitive areas
- Low cost, temporary port extensions
- Breadboarding, design and full-scale production phase
- Emergency field replacement
- High Temperature

FEATURES

- Jacketed with a polyurethane insulation or FEP
- Bends easily by hand with minimum degradation
- Electrical performance comparable to semi-rigid
- 100% shielded, 3 metal outer conductors for low leakage
- Eliminates tooling
- Eliminates solder joint failures
- Cuts time and costs in design, drafting, purchasing and manufacturing
- Wide assortment IN STOCK for a same day to 24 hour delivery
- Available with crimp SMA plugs or Tensolite's popular anti-torque SMA plugs

Tensolite RF/Microwave Interconnects 1-800-362-FLEX

A CARLISLE Company

Website: www.tensolite.com

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

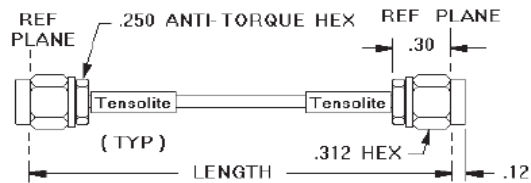
18 GHz SMA MALE TO SMA MALE ON 620 JACKETED SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50	OHMS				
CAPACITANCE NOMINAL:	28.80	pf/FOOT				
VELOCITY OF PROPAGATION, NOMINAL:	70.5	%				
RELATIVE SHIELDING:	-100	dB MIN.				
INSULATION RESISTANCE:	1000	MEGOHMS MIN.				
DIELECTRIC WITHSTANDING VOLTAGE:	1000	VRMS MIN.				
ELECTRICAL DELAY:	1.44	ns/FOOT				
ELECTRICAL DELAY:	120	ps/INCH				
MAX. PULSE RF POWER:	1250	WATTS				
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ----->	1	2	4	6	12	18
MAX. CW WATTS -->	17	12	7	5	3	2
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS						

MECHANICAL SPECIFICATIONS:

CABLE MAX. DIAMETER:	0.112	INCHES
MIN. BEND RADIUS:	0.15	INCHES
PREFERRED BEND RADIUS:	0.40	INCHES
CONNECTOR RETENTION:	30	POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85	DEGREES C
MATING TORQUE:	7-10	INCH POUNDS
SMA CONNECTOR INTERFACE:	MIL-STD-348	PAGE 310.3



MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER:	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
SMA CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM D1457 PTFE	NONE
SMA BODY	ASTM A 582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GASKET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

NOTES:

DATA SHEET 1-3636-600-5248 DESCRIBES THE UN-JACKETED VERSION

A + 4.2 PS DELAY/ PHASE MATCHED VERSION IS DESCRIBED ON 1-3636-600-P248 DATA SHEET

A 75 OHM UN-JACKETED VERSION IS DESCRIBED ON 1-3636-670-5248 DATA SHEET

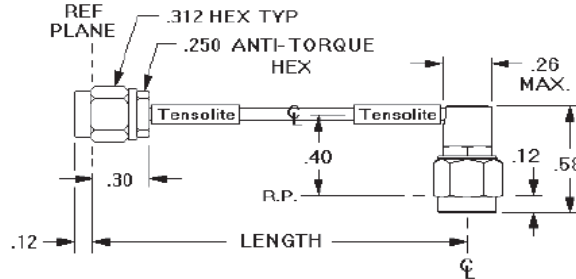
ITEM INFORMATION PART NUMBER		MECHANICAL CHARACTERISTICS LENGTH INCHES			+ - LENGTH			WEIGHT OUNCES			PRODUCT MAXIMUM										PRODUCT MAXIMUM										NOM DELAY nS	LENGTH CM
											S11 AND S22 CHARACTERISTICS										S21 AND S12 CHARACTERISTICS											
											MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)										MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)											
UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18									
1-3636-620- 5202	D	2.0	0.05	0.2	1.05	1.08	1.13	1.15	1.18	1.28	0.07	0.10	0.14	0.18	0.26	0.32	0.24	5.08														
1-3636-620- 5203	D	3.0	0.05	0.2	1.05	1.08	1.13	1.15	1.18	1.28	0.09	0.13	0.18	0.23	0.33	0.42	0.36	7.62														
1-3636-620- 5204	D	4.0	0.05	0.3	1.05	1.08	1.13	1.15	1.18	1.28	0.11	0.15	0.22	0.28	0.41	0.52	0.48	10.16														
1-3636-620- 5205	D	5.0	0.05	0.3	1.05	1.08	1.13	1.15	1.18	1.28	0.13	0.18	0.26	0.33	0.48	0.61	0.60	12.70														
1-3636-620- 5206	D	6.0	0.10	0.3	1.05	1.08	1.13	1.15	1.18	1.28	0.14	0.21	0.30	0.38	0.56	0.71	0.72	15.24														
1-3636-620- 5207	D	7.0	0.10	0.3	1.05	1.08	1.13	1.15	1.18	1.28	0.16	0.24	0.34	0.43	0.64	0.81	0.84	17.78														
1-3636-620- 5208	D	8.0	0.10	0.3	1.05	1.08	1.13	1.15	1.18	1.28	0.18	0.26	0.38	0.48	0.71	0.91	0.96	20.32														
1-3636-620- 5209	D	9.0	0.10	0.4	1.05	1.08	1.13	1.15	1.18	1.28	0.20	0.29	0.42	0.53	0.79	1.00	1.08	22.86														
1-3636-620- 5210	D	10.0	0.10	0.4	1.05	1.08	1.13	1.15	1.18	1.28	0.22	0.32	0.46	0.58	0.87	1.10	1.20	25.40														
1-3636-620- 5211	D	11.0	0.10	0.4	1.05	1.08	1.13	1.15	1.18	1.28	0.24	0.35	0.51	0.63	0.94	1.20	1.32	27.94														
1-3636-620- 5212	D	12.0	0.15	0.4	1.05	1.08	1.13	1.15	1.18	1.28	0.26	0.37	0.55	0.68	1.02	1.29	1.44	30.48														
1-3636-620- 5213	D	13.0	0.15	0.4	1.05	1.08	1.13	1.15	1.18	1.28	0.28	0.40	0.59	0.73	1.09	1.39	1.56	33.02														
1-3636-620- 5214	D	14.0	0.15	0.5	1.05	1.08	1.13	1.15	1.18	1.28	0.30	0.43	0.63	0.79	1.17	1.49	1.68	35.56														
1-3636-620- 5215	D	15.0	0.15	0.5	1.05	1.08	1.13	1.15	1.18	1.28	0.32	0.46	0.67	0.84	1.25	1.59	1.80	38.10														
1-3636-620- 5216	D	16.0	0.15	0.5	1.05	1.08	1.13	1.15	1.18	1.28	0.33	0.48	0.71	0.89	1.32	1.68	1.92	40.64														
1-3636-620- 5217	D	17.0	0.15	0.5	1.05	1.08	1.13	1.15	1.18	1.28	0.35	0.51	0.75	0.94	1.40	1.78	2.04	43.18														
1-3636-620- 5218	D	18.0	0.15	0.5	1.05	1.08	1.13	1.15	1.18	1.28	0.37	0.54	0.79	0.99	1.47	1.88	2.16	45.72														
1-3636-620- 5219	D	19.0	0.15	0.6	1.05	1.08	1.13	1.15	1.18	1.28	0.39	0.57	0.83	1.04	1.55	1.97	2.28	48.26														
1-3636-620- 5220	D	20.0	0.15	0.6	1.05	1.08	1.13	1.15	1.18	1.28	0.41	0.59	0.87	1.09	1.63	2.07	2.40	50.80														
1-3636-620- 5221	D	21.0	0.15	0.6	1.05	1.08	1.13	1.15	1.18	1.28	0.43	0.62	0.91	1.14	1.70	2.17	2.52	53.34														
1-3636-620- 5222	D	22.0	0.15	0.6	1.05	1.08	1.13	1.15	1.18	1.28	0.45	0.65	0.95	1.19	1.78	2.27	2.64	55.88														
1-3636-620- 5223	D	23.0	0.15	0.6	1.05	1.08	1.13	1.15	1.18	1.28	0.47	0.68	0.99	1.24	1.86	2.36	2.76	58.42														
1-3636-620- 5224	D	24.0	0.15	0.7	1.05	1.08	1.13	1.15	1.18	1.28	0.49	0.71	1.03	1.29	1.93	2.46	2.88	60.96														
1-3636-620- 5225	D	25.0	0.15	0.7	1.05	1.08	1.13	1.15	1.18	1.28	0.51	0.73	1.07	1.35	2.01	2.56	3.00	63.50														
1-3636-620- 5226	D	26.0	0.15	0.7	1.05	1.08	1.13	1.15	1.18	1.28	0.53	0.76	1.11	1.40	2.08	2.65	3.12	66.04														
1-3636-620- 5227	D	27.0	0.15	0.7	1.05	1.08	1.13	1.15	1.18	1.28	0.54	0.79	1.15	1.45	2.16	2.75	3.24	68.58														
1-3636-620- 5228	D	28.0	0.15	0.7	1.05	1.08	1.13	1.15	1.18	1.28	0.56	0.82	1.19	1.50	2.24	2.85	3.36	71.12														
1-3636-620- 5229	D	29.0	0.15	0.8	1.05	1.08	1.13	1.15	1.18	1.28	0.58	0.84	1.23	1.55	2.31	2.95	3.48	73.66														
1-3636-620- 5230	D	30.0	0.15	0.8	1.05	1.08	1.13	1.15	1.18	1.28	0.60	0.87	1.27	1.60	2.39	3.04	3.60	76.20														
1-3636-620- 5231	D	31.0	0.15	0.8	1.05	1.08	1.13	1.15	1.18	1.28	0.62	0.90	1.31	1.65	2.46	3.14	3.71	78.74														
1-3636-620- 5232	D	32.0	0.15	0.8	1.05	1.08	1.13	1.15	1.18	1.28	0.64	0.93	1.35	1.70	2.54	3.24	3.83	81.28														
1-3636-620- 5233	D	33.0	0.15	0.8	1.05	1.08	1.13	1.15	1.18	1.28	0.66	0.95	1.40	1.75	2.62	3.34	3.95	83.82														
1-3636-620- 5234	D	34.0	0.15	0.9	1.05	1.08	1.13	1.15	1.18	1.28	0.68	0.98	1.44	1.80	2.69	3.43	4.07	86.36														
1-3636-620- 5235	D	35.0	0.15	0.9	1.05	1.08	1.13	1.15	1.18	1.28	0.70	1.01	1.48	1.85	2.77	3.53	4.19	88.90														
1-3636-620- 5236	D	36.0	0.15	0.9	1.05	1.08	1.13	1.15	1.18	1.28	0.72	1.04	1.52	1.91	2.85	3.63	4.31	91.44														
1-3636-620- 5237	D	37.0	0.15	0.9	1.05	1.08	1.13	1.15	1.18	1.28	0.73	1.06	1.56	1.96	2.92	3.72	4.43	93.98														
1-3636-620- 5238	D	38.0	0.15	0.9	1.05	1.08	1.13	1.15	1.18	1.28	0.75	1.09	1.60	2.01	3.00	3.82	4.55	96.52														
1-3636-620- 5239	D	39.0	0.15	1.0	1.05	1.08	1.13	1.15	1.18	1.28	0.77	1.12	1.64	2.06	3.07	3.92	4.67	99.06														
1-3636-620- 5240	D	40.0	0.15	1.0	1.05	1.08	1.13	1.15	1.18	1.28	0.79	1.15	1.68	2.11	3.15	4.02	4.79	101.60														
1-3636-620- 5241	D	41.0	0.15	1.0	1.05	1.08	1.13	1.15	1.18	1.28	0.81	1.18	1.72	2.16	3.23	4.11	4.91	104.14														
1-3636-620- 5242	D	42.0	0.15	1.0	1.05	1.08	1.13	1.15	1.18	1.28	0.83	1.20	1.76	2.21	3.30	4.21	5.03	106.68														
1-3636-620- 5243	D	43.0	0.15	1.1	1.05	1.08	1.13	1.15	1.18	1.28	0.89	1.29	1.88	2.36	3.53	4.50	5.39	114.30														
1-3636-620- 5244	D	46.0	0.15	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.91	1.31	1.92	2.41	3.61	4.60	5.51	116.84														
1-3636-620- 5245	D	48.0	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.94	1.37	2.00	2.52	3.76	4.79	5.75	121.92														
1-3636-620- 5254	D	54.0	0.20	1.3	1.10	1.15	1.20	1.25	1.30	1.35	1.06	1.53	2.25	2.82	4.22	5.38	6.47	137.16														
1-3636-620- 5260	D	60.0	0.25	1.4	1.10	1.15	1.20	1.25	1.30	1.35	1.17	1.70	2.49	3.13	4.67	5.96	7.19	152.40														
1-3636-620- 5266	D	66.0	0.25	1.5	1.10	1.15	1.20	1.25	1.30	1.35	1.29	1.87	2.73	3.43	5.13	6.54	7.91	167.64														
1-3636-620- 5272	D	72.0	0.50	1.6	1.10	1.15	1.20	1.25	1.30	1.35	1.40	2.03	2.97	3.74	5.59	7.13	8.63	182.88														
1-3636-620- 5284	D	84.0	0.50	1.9	1.10	1.15	1.20	1.25	1.30	1.35	1.63	2.36	3.46	4.35	6.50	8.29	10.07	213.36														
1-3636-620- 5296	D	96.0	0.50	2.1	1.10	1.15	1.20	1.25	1.30	1.35	1.86	2.69	3.94	4.96	7.41	9.46	11.50	243.84														
1-3636-620- 5299	D	99.0	0.50	2.2	1.10	1.15	1.20	1.25	1.30	1.35	1.91	2.78	4.07	5.11	7.64	9.75	11.86	251.46														
2-3636-620- 5209	D	108.0	0.50	2.3	1.10	1.15	1.20	1.25	1.30	1.35	2.09	3.03	4.43	5.57	8.33	10.63	12.94	274.32														
2-3636-620- 5210	D	120.0	0.50	2.6	1.10	1.15	1.20	1.25	1.30	1.35	2.31	3.36	4.92	6.18	9.24	11.79	14.38	304.80														
2-3636-620- 5212	D	144.0	0.50	3.1	1.10	1.15	1.20	1.25	1.30	1.35	2.77	4.02	5.89	7.40	11.07	14.13	17.26	365.76														
2-3636-620- 5215	D	180.0	0.50	3.8	1.10	1.15	1.20	1.25	1.30	1.35	3.46	5.01	7.34	9.23	13.81	17.63	21.57	457.20														

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50		OHMS			
CAPACITANCE NOMINAL:	29.40		pF/FOOT			
VELOCITY OF PROPAGATION, NOMINAL:	70.7		%			
RELATIVE SHIELDING:	-100		dB MIN.			
INSULATION RESISTANCE:	1000		MEGOHMS MIN.			
DIELECTRIC WITHSTANDING VOLTAGE:	1000		VRMS MIN.			
ELECTRICAL DELAY:	1.44		ns/FOOT			
ELECTRICAL DELAY:	120		ps/INCH			
MAX. PULSE RF POWER:	1250		WATTS			
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ----->	1	2	4	6	12	18
MAX. CW WATTS ---->	17	12	7	5	3	2
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS						

MECHANICAL SPECIFICATIONS:

CABLE MAX. DIAMETER:	0.112	INCHES
MIN. BEND RADIUS:	0.15	INCHES
PREFERRED BEND RADIUS:	0.40	INCHES
CONNECTOR RETENTION:	30	POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85	DEGREES C
MATING TORQUE:	7-10	INCH POUNDS
SMA CONNECTOR INTERFACE:	MIL-STD-348	PAGE 310.3

18 GHz SMA MALE TO SMA MALE RT < ON
620 JACKETED SEMI-FLEX® CABLE.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
SMA CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM D1457 PTFE	NONE
SMA BODY	ASTM A 582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GASKET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION		MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS							S21 AND S12 CHARACTERISTICS							NOM DELAY nS	LENGTH CM
PART NUMBER		LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)									
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18				
1-3637-620-5202		2.00	0.00	0.2	1.06	1.10	1.14	1.17	1.20	1.30	0.11	0.14	0.20	0.24	0.34	0.44	0.27	5.08		
1-3637-620-5203	D	3.00	0.05	0.2	1.06	1.10	1.14	1.17	1.20	1.30	0.13	0.17	0.24	0.29	0.42	0.54	0.38	7.62		
1-3637-620-5204	D	4.00	0.05	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.15	0.20	0.28	0.34	0.49	0.64	0.50	10.16		
1-3637-620-5205	D	5.00	0.05	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.17	0.22	0.32	0.39	0.57	0.74	0.62	12.70		
1-3637-620-5206	D	6.00	0.10	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.18	0.25	0.36	0.44	0.65	0.83	0.74	15.24		
1-3637-620-5207	D	7.00	0.10	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.20	0.28	0.40	0.49	0.72	0.93	0.86	17.78		
1-3637-620-5208	D	8.00	0.10	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.22	0.31	0.44	0.55	0.80	1.03	0.98	20.32		
1-3637-620-5209	D	9.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.24	0.34	0.48	0.60	0.87	1.12	1.10	22.86		
1-3637-620-5210	D	10.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.26	0.36	0.52	0.65	0.95	1.22	1.22	25.40		
1-3637-620-5211	D	11.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.28	0.39	0.57	0.70	1.03	1.32	1.34	27.94		
1-3637-620-5212	D	12.00	0.15	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.30	0.42	0.61	0.75	1.10	1.42	1.46	30.48		
1-3637-620-5213		13.00	0.15	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.32	0.45	0.65	0.80	1.18	1.51	1.58	33.02		
1-3637-620-5214		14.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.34	0.47	0.69	0.85	1.25	1.61	1.70	35.56		
1-3637-620-5215		15.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.36	0.50	0.73	0.90	1.33	1.71	1.82	38.10		
1-3637-620-5216		16.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.37	0.53	0.77	0.95	1.41	1.81	1.94	40.64		
1-3637-620-5217		17.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.39	0.56	0.81	1.00	1.48	1.90	2.06	43.18		
1-3637-620-5218	D	18.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.41	0.58	0.85	1.05	1.56	2.00	2.18	45.72		
1-3637-620-5219		19.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.43	0.61	0.89	1.10	1.64	2.10	2.30	48.26		
1-3637-620-5220		20.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.45	0.64	0.93	1.16	1.71	2.19	2.42	50.80		
1-3637-620-5221		21.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.47	0.67	0.97	1.21	1.79	2.29	2.54	53.34		
1-3637-620-5222		22.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.49	0.69	1.01	1.26	1.86	2.39	2.66	55.88		
1-3637-620-5223		23.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.51	0.72	1.05	1.31	1.94	2.49	2.78	58.42		
1-3637-620-5224	D	24.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.53	0.75	1.09	1.36	2.02	2.58	2.90	60.96		
1-3637-620-5225		25.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.55	0.78	1.13	1.41	2.09	2.68	3.02	63.50		
1-3637-620-5226		26.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.57	0.80	1.17	1.46	2.17	2.78	3.14	66.04		
1-3637-620-5227		27.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.58	0.83	1.21	1.51	2.24	2.87	3.26	68.58		
1-3637-620-5228		28.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.60	0.86	1.25	1.56	2.32	2.97	3.38	71.12		
1-3637-620-5229		29.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.62	0.89	1.29	1.61	2.40	3.07	3.50	73.66		
1-3637-620-5230		30.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.64	0.92	1.33	1.66	2.47	3.17	3.62	76.20		
1-3637-620-5231		31.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.66	0.94	1.37	1.72	2.55	3.26	3.74	78.74		
1-3637-620-5232		32.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.68	0.97	1.41	1.77	2.63	3.36	3.86	81.28		
1-3637-620-5233		33.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.70	1.00	1.46	1.82	2.70	3.46	3.98	83.82		
1-3637-620-5234		34.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.72	1.03	1.50	1.87	2.78	3.56	4.10	86.36		
1-3637-620-5235		35.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.74	1.05	1.54	1.92	2.85	3.65	4.22	88.90		
1-3637-620-5236		36.00	0.15	0.9	1.10	1.15	1.20	1.25	1.30	1.35	0.76	1.08	1.58	1.97	2.93	3.75	4.34	91.44		
1-3637-620-5237		37.00	0.20	0.9	1.10	1.15	1.20	1.25	1.30	1.35	0.77	1.11	1.62	2.02	3.01	3.85	4.46	93.98		
1-3637-620-5238		38.00	0.20	0.9	1.10	1.15	1.20	1.25	1.30	1.35	0.79	1.14	1.66	2.07	3.08	3.94	4.58	96.52		
1-3637-620-5239		39.37	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.82	1.17	1.71	2.14	3.19	4.08	4.74	100.00		
1-3637-620-5240		40.00	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.83	1.19	1.74	2.17	3.23	4.14	4.82	101.60		
1-3637-620-5241		41.00	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.85	1.22	1.78	2.22	3.31	4.24	4.94	104.14		
1-3637-620-5242		42.00	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.87	1.25	1.82	2.27	3.39	4.33	5.06	106.68		
1-3637-620-5243		43.00	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.89	1.27	1.86	2.33	3.46	4.43	5.18	109.22		
1-3637-620-5244		44.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.91	1.30	1.90	2.38	3.54	4.53	5.30	111.76		
1-3637-620-5245		45.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.93	1.33	1.94	2.43	3.62	4.62	5.42	114.30		
1-3637-620-5246		46.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.95	1.36	1.98	2.48	3.69	4.72	5.54	116.84		
1-3637-620-5247		47.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.96	1.38	2.02	2.53	3.77	4.82	5.66	119.38		
1-3637-620-5248		48.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.98	1.41	2.06	2.58	3.84	4.92	5.78	121.92		

D = DISTRIBUTOR ITEM MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM PLUS MEASURING SYSTEM UNCERTAINTY.

NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.

PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.

SEMI-FLEX IS A REGISTERED TRADEMARK OF TENSOLITE CO.

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ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS:

CABLE MAX. DIAMETER:	0.112	INCHES
MIN. BEND RAD _{lv} S:	0.15	INCHES
PREFERRED BEND RAD _{lv} S:	0.40	INCHES
CONNECTOR RETENTION:	30	PO _v NDS MIN.
TEMPERAT _{lv} RE RANGE:	-50 / + 85	DEGREES C
MATING TORQ _v E:	7-10	INCH PO _v NDS
SMA CONNECTOR INTERFACE:	MIL-STD-348	PAGE 310.3

[illegible]

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACK: ET (SEE NOTE):	POLYURETHANE	CLEAR
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARINER:	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
SMA CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM D1457 PTFE	NONE
SMA BODY:	ASTM A 582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GAS: ET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

NOTES:

DATA SHEET 1-3737-600-5248 DESCRIBES THE μ N-JAC_K ETED VERSION
A - 4.2pS DELA_K /PHASE MATCHED VERSION IS DESCRIBED ON 1-3737-600-P248 DATA SHEET
A 75 OHM μ N-JAC_K ETED VERSION IS DESCRIBED ON 1-3737-670-5248 DATA SHEET

ITEM INFORMATION		MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS						S21 AND S12 CHARACTERISTICS							
PART NO.	MBER	LENGTH INCHES	OD INCHES	WEIGHT OZ NCES	MAXIMUM VSWR @ 1:1 AT FREQ. (IN GHz.)						MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						DELTA nS -4%	LENGTH CM
					0 TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	0 TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18		
1-3737-620-3203	D	3.00	0.05	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.14	0.18	0.26	0.32	0.45	0.58	0.41	7.62
1-3737-620-3204	D	4.00	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.16	0.21	0.30	0.37	0.53	0.68	0.53	10.16
1-3737-620-3205	D	5.00	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.18	0.24	0.34	0.42	0.60	0.78	0.65	12.70
1-3737-620-3206	D	6.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.19	0.27	0.38	0.47	0.68	0.88	0.77	15.24
1-3737-620-3207	D	7.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.21	0.29	0.42	0.52	0.76	0.97	0.89	17.78
1-3737-620-3208	D	8.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.23	0.32	0.46	0.57	0.83	1.07	1.01	20.32
1-3737-620-3209	D	9.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.25	0.35	0.50	0.62	0.91	1.17	1.13	22.86
1-3737-620-3210	D	10.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.27	0.38	0.54	0.67	0.98	1.26	1.25	25.40
1-3737-620-3211	D	11.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.29	0.40	0.59	0.72	1.06	1.36	1.37	27.94
1-3737-620-3212	D	12.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.31	0.43	0.63	0.77	1.14	1.46	1.49	30.48
1-3737-620-3213	D	13.00	0.15	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.33	0.46	0.67	0.82	1.21	1.56	1.61	33.02
1-3737-620-3214	D	14.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.35	0.49	0.71	0.87	1.29	1.65	1.73	35.56
1-3737-620-3215	D	15.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.37	0.52	0.75	0.93	1.37	1.75	1.85	38.10
1-3737-620-3216	D	16.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.38	0.54	0.79	0.98	1.44	1.85	1.97	40.64
1-3737-620-3217	D	17.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.40	0.57	0.83	1.03	1.52	1.94	2.09	43.18
1-3737-620-3218	D	18.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.42	0.60	0.87	1.08	1.59	2.04	2.21	45.72
1-3737-620-3219	D	19.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.44	0.63	0.91	1.13	1.67	2.14	2.33	48.26
1-3737-620-3220	D	20.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.46	0.65	0.95	1.18	1.75	2.24	2.45	50.80
1-3737-620-3221	D	21.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.48	0.68	0.99	1.23	1.82	2.33	2.57	53.34
1-3737-620-3222	D	22.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.50	0.71	1.03	1.28	1.90	2.43	2.69	55.88
1-3737-620-3223	D	23.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.52	0.74	1.07	1.33	1.97	2.53	2.81	58.42
1-3737-620-3224	D	24.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.54	0.76	1.11	1.38	2.05	2.63	2.93	60.96
1-3737-620-3225		25.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.56	0.79	1.15	1.43	2.13	2.72	3.05	63.50
1-3737-620-3226		26.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.58	0.82	1.19	1.49	2.20	2.82	3.17	66.04
1-3737-620-3227		27.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.59	0.85	1.23	1.54	2.28	2.92	3.29	68.58
1-3737-620-3228		28.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.61	0.87	1.27	1.59	2.36	3.01	3.41	71.12
1-3737-620-3229		29.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.63	0.90	1.31	1.64	2.43	3.11	3.53	73.66
1-3737-620-3230	D	30.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.65	0.93	1.35	1.69	2.51	3.21	3.65	76.20
1-3737-620-3231		31.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.67	0.96	1.39	1.74	2.58	3.31	3.77	78.74
1-3737-620-3232		32.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.69	0.98	1.43	1.79	2.66	3.40	3.89	81.28
1-3737-620-3233		33.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.71	1.01	1.48	1.84	2.74	3.50	4.01	83.82
1-3737-620-3234		34.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.73	1.04	1.52	1.89	2.81	3.60	4.13	86.36
1-3737-620-3235		35.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.35	0.75	1.07	1.56	1.94	2.89	3.69	4.25	88.90
1-3737-620-3236	D	36.00	0.15	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.77	1.10	1.60	1.99	2.96	3.79	4.36	91.44
1-3737-620-3237		37.00	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.78	1.12	1.64	2.04	3.04	3.89	4.48	93.98
1-3737-620-3238		38.00	0.20	1.0	1.10	1.15	1.20	1.25	1.30	1.35	0.80	1.15	1.68	2.10	3.12	3.99	4.60	96.52
1-3737-620-3239		39.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.82	1.18	1.72	2.15	3.19	4.08	4.72	99.06
1-3737-620-3240		40.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.84	1.21	1.76	2.20	3.27	4.18	4.84	101.60
1-3737-620-3241		41.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.86	1.23	1.80	2.25	3.35	4.28	4.96	104.14
1-3737-620-3242		42.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.88	1.26	1.84	2.30	3.42	4.38	5.08	106.68
1-3737-620-3243		43.00	0.20	1.1	1.10	1.15	1.20	1.25	1.30	1.35	0.90	1.29	1.88	2.35	3.50	4.47	5.20	109.22
1-3737-620-3244		44.00	0.20	1.2	1.10	1.15	1.20	1.25	1.30	1.35	0.92	1.32	1.92	2.40	3.57	4.57	5.32	111.76
1-3737-620-3245		45.00	0.20	1.2	1.10	1.15	1.20	1.25	1.30	1.35	0.94	1.34	1.96	2.45	3.65	4.67	5.44	114.30
1-3737-620-3246		46.00	0.20	1.2	1.10	1.15	1.20	1.25	1.30	1.35	0.96	1.37	2.00	2.50	3.73	4.76	5.56	116.84
1-3737-620-3247		47.00	0.20	1.2	1.10	1.15	1.20	1.25	1.30	1.35	0.97	1.40	2.04	2.55	3.80	4.86	5.68	119.38
1-3737-620-3248	D	48.00	0.20	1.2	1.10	1.15	1.20	1.25	1.30	1.35	0.99	1.43	2.08	2.60	3.88	4.96	5.80	121.92
D = DISTRIBUTOR ITEM					MAXIMUM SPECIFICATIONS ARE PRODUCTION MAXIMUM PLUS MEASURED RING SIZE STEMM UNCERTAINTY.													
NOTE: ALL SPECIFICATIONS APPLY AT 73 DEG. F. SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.																		

NOTE: ALL SPECIFICATIONS APPLY AT 73 DEG. F. SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.

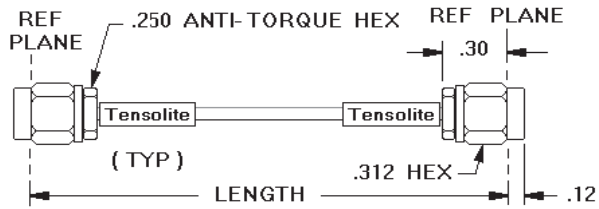
Handformable, Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:		50 OHMS				
CAPACITANCE NOMINAL:		29.40 pf/FOOT				
VELOCITY OF PROPAGATION, NOMINAL:		70.7 %				
RELATIVE SHIELDING:		-100 dB MIN.				
INSULATION RESISTANCE:		1000 MEGOHMS MIN.				
DIELECTRIC WITHSTANDING VOLTAGE:		1000 VRMS MIN.				
ELECTRICAL DELAY:		1.44 ns/FOOT				
ELECTRICAL DELAY:		120 ps/INCH				
MAX. PULSE RF POWER:		1250 WATTS				
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ----->	1	2	4	6	12	18
MAX. CW WATTS ---->	50	35	22	17	12	8
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .55 INCH RADIUS						

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.180 INCHES
MIN. BEND RADIUS:	0.18 INCHES
PREFERRED BEND RADIUS:	0.55 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
SMA CONNECTOR INTERFACE:	MIL-STD-348 PAGE 310.3

18 GHz SMA MALE TO SMA MALE ON 621 SEMI-FLEX® PLUS CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
INSULATORS:	ASTM D1457 PTFE	NONE
SMA BODY	ASTM A 582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GASKET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION		MECHANICAL CHARACTERISTICS				S11 AND S22 CHARACTERISTICS							S21 AND S12 CHARACTERISTICS								LENGTH CM
PART NUMBER		LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)							MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)							NOM DELAY nS		
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18					
1-3636-621- 5203		3.0	0.05	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.09	0.12	0.17	0.20	0.29	0.39	0.36	7.62			
1-3636-621- 5204	D	4.0	0.05	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.10	0.14	0.20	0.23	0.34	0.45	0.48	10.2			
1-3636-621- 5205	D	5.0	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.11	0.15	0.22	0.27	0.39	0.51	0.60	12.7			
1-3636-621- 5206	D	6.0	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.13	0.17	0.24	0.30	0.43	0.57	0.72	15.2			
1-3636-621- 5207	D	7.0	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.14	0.18	0.27	0.33	0.48	0.63	0.84	17.8			
1-3636-621- 5208	D	8.0	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.15	0.20	0.29	0.36	0.53	0.69	0.96	20.3			
1-3636-621- 5209	D	9.0	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.16	0.22	0.31	0.39	0.57	0.75	1.08	22.9			
1-3636-621- 5210	D	10.0	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.17	0.23	0.34	0.42	0.62	0.82	1.20	25.4			
1-3636-621- 5211	D	11.0	0.10	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.18	0.25	0.36	0.45	0.67	0.88	1.32	27.9			
1-3636-621- 5212	D	12.0	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.19	0.26	0.39	0.48	0.71	0.94	1.44	30.5			
1-3636-621- 5213		13.0	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.20	0.28	0.41	0.51	0.76	1.00	1.56	33.0			
1-3636-621- 5214		14.0	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.21	0.30	0.43	0.54	0.81	1.06	1.68	35.6			
1-3636-621- 5215		15.0	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.22	0.31	0.46	0.57	0.86	1.12	1.80	38.1			
1-3636-621- 5216		16.0	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.23	0.33	0.48	0.60	0.90	1.18	1.92	40.6			
1-3636-621- 5217		17.0	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.24	0.34	0.51	0.63	0.95	1.24	2.04	43.2			
1-3636-621- 5218	D	18.0	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.26	0.36	0.53	0.66	1.00	1.30	2.16	45.7			
1-3636-621- 5219		19.0	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.27	0.38	0.55	0.69	1.04	1.36	2.28	48.3			
1-3636-621- 5220		20.0	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.28	0.39	0.58	0.72	1.09	1.42	2.40	50.8			
1-3636-621- 5221		21.0	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.29	0.41	0.60	0.75	1.14	1.48	2.52	53.3			
1-3636-621- 5222		22.0	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.30	0.42	0.62	0.78	1.18	1.54	2.64	55.9			
1-3636-621- 5223		23.0	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.31	0.44	0.65	0.81	1.23	1.61	2.76	58.4			
1-3636-621- 5224	D	24.0	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.32	0.46	0.67	0.84	1.28	1.67	2.88	61.0			
1-3636-621- 5225		25.0	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.33	0.47	0.70	0.87	1.32	1.73	3.00	63.5			
1-3636-621- 5226		26.0	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.34	0.49	0.72	0.90	1.37	1.79	3.12	66.0			
1-3636-621- 5227		27.0	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.35	0.50	0.74	0.93	1.42	1.85	3.24	68.6			
1-3636-621- 5228		28.0	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.36	0.52	0.77	0.96	1.46	1.91	3.36	71.1			
1-3636-621- 5229		29.0	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.37	0.54	0.79	0.99	1.51	1.97	3.48	73.7			
1-3636-621- 5230		30.0	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.39	0.55	0.82	1.02	1.56	2.03	3.60	76.2			
1-3636-621- 5232		32.0	0.15	1.3	1.06	1.10	1.14	1.17	1.20	1.30	0.41	0.58	0.86	1.09	1.65	2.15	3.83	81.3			
1-3636-621- 5234		34.0	0.15	1.3	1.06	1.10	1.14	1.17	1.20	1.30	0.43	0.62	0.91	1.15	1.74	2.27	4.07	86.4			
1-3636-621- 5236		36.0	0.15	1.4	1.06	1.10	1.14	1.17	1.20	1.30	0.45	0.65	0.96	1.21	1.84	2.40	4.31	91.4			
1-3636-621- 5239		39.0	0.15	1.5	1.06	1.10	1.14	1.17	1.20	1.30	0.48	0.70	1.03	1.30	1.98	2.58	4.67	99.1			
1-3636-621- 5242		42.0	0.15	1.6	1.06	1.10	1.14	1.17	1.20	1.30	0.52	0.74	1.10	1.39	2.12	2.76	5.03	106.7			
1-3636-621- 5245		45.0	0.15	1.7	1.10	1.15	1.20	1.25	1.30	1.35	0.55	0.79	1.17	1.48	2.26	2.94	5.39	114.3			
1-3636-621- 5248		48.0	0.20	1.8	1.10	1.15	1.20	1.25	1.30	1.35	0.58	0.84	1.24	1.57	2.40	3.13	5.75	121.9			
1-3636-621- 5254		54.0	0.20	2.0	1.10	1.15	1.20	1.25	1.30	1.35	0.65	0.93	1.39	1.75	2.68	3.49	6.47	137			
1-3636-621- 5260		60.4	0.20	2.3	1.10	1.15	1.20	1.25	1.30	1.35	0.71	1.04	1.54	1.95	2.98	3.88	7.23	153			
1-3636-621- 5266		66.0	0.20	2.5	1.10	1.15	1.20	1.25	1.30	1.35	0.78	1.13	1.67	2.12	3.24	4.22	7.91	168			
1-3636-621- 5272		72.0	0.20	2.7	1.10	1.15	1.20	1.25	1.30	1.35	0.84	1.22	1.82	2.30	3.52	4.59	8.63	183			
1-3636-621- 5284		84.0	0.20	3.1	1.10	1.15	1.20	1.25	1.30	1.35	0.97	1.41	2.10	2.67	4.08	5.31	10.07	213			
1-3636-621- 5288		88.0	0.20	3.2	1.10	1.15	1.20	1.25	1.30	1.35	1.01	1.48	2.20	2.79	4.27	5.56	10.55	224			
1-3636-621- 5292		92.0	0.20	3.3	1.10	1.15	1.20	1.25	1.30	1.35	1.06	1.54	2.29	2.91	4.45	5.80	11.03	234			
1-3636-621- 5296		96.0	0.20	3.5	1.10	1.15	1.20	1.25	1.30	1.35	1.10	1.60	2.39	3.03	4.64	6.04	11.50	244			
1-3636-621- 5299		99.0	0.20	3.6	1.10	1.15	1.20	1.25	1.30	1.35	1.13	1.65	2.46	3.12	4.78	6.23	11.86	251			
2-3636-621- 5209		108.0	0.20	3.9	1.10	1.15	1.20	1.25	1.30	1.35	1.23	1.80	2.67	3.39	5.20	6.77	12.94	274			
2-3636-621- 5210		120.0	0.20	4.3	1.10	1.15	1.20	1.25	1.30	1.35	1.36	1.99	2.96	3.76	5.76	7.50	14.38	305			
2-3636-621- 5212		144.0	0.20	5.1	1.10	1.15	1.20	1.25	1.30	1.35	1.62	2.37	3.53	4.49	6.89	8.96	17.26	366			
2-3636-621- 5215		180.0	0.20	6.4	1.10	1.15	1.20	1.25	1.30	1.35	2.01	2.95	4.39	5.58	8.57	11.15	21.57	457			

D = DISTRIBUTOR ITEM MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM PLUS MEASURING SYSTEM UNCERTAINTY

NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.

PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.

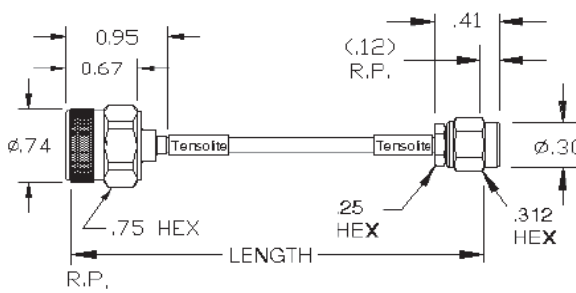
SEMI-FLEX IS A REGISTERED TRADEMARK OF TENSOLITE CO.

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TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

18 GHz TYPE N MALE TO SMA MALE ON 621 JACKETED SEMI FLEX® CABLE.

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50 OHMS					
CAPACITANCE NOMINAL:	29.40 pF/FOOT					
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %					
RELATIVE SHIELDING:	-100 dB MIN.					
INSULATION RESISTANCE:	1000 MEGOHMS MIN.					
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.					
ELECTRICAL DELAY:	1.44 ns/FOOT					
ELECTRICAL DELAY:	120 ps/INCH					
MAX. PULSE RF POWER:	1250 WATTS					
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ----->	1	2	4	6	12	18
MAX. CW WATTS -->	50	35	22	17	12	8
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS						



MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.180 INCHES
MIN. BEND RADIUS:	0.18 INCHES
PREFERRED BEND RADIUS:	0.55 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
TYPE N CONNECTOR INTERFACE:	MIL-STD-348 (WITH SOLID OUTER)

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH WIRE BRAID	TIN FILLED
MARKER:	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM D1457 PTFE	NONE
TYPE N BODY	ASTM B16 BRASS	QQ-S-365 SILVER PLATE
TYPE N NUT	ASTM B16 BRASS	QQ-N-290 NICKLE PLATE
SMA BODY:	ASTM A582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT:	ASTM A582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GASKET:	ZZ-R-765 SILICON RUBBER	RED
AVAILABLE N GASKET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

NOTES: ORDER GASKET PART NUMBER 5-1368-100-17 IF REQUIRED

ITEM INFORMATION		MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS							S21 AND S12 CHARACTERISTICS							LENGTH CM
PART NUMBER		LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)								
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	NOM DELAY nS		
1-1836-621- 5204	D	4.00	0.05	1.5	1.15	1.20	1.25	1.30	1.35	1.40	0.12	0.16	0.24	0.28	0.41	0.54	0.47	10.2	
1-1836-621- 5205	D	5.00	0.05	1.6	1.15	1.20	1.25	1.30	1.35	1.40	0.13	0.18	0.26	0.31	0.46	0.60	0.59	12.7	
1-1836-621- 5206	D	6.00	0.05	1.6	1.15	1.20	1.25	1.30	1.35	1.40	0.15	0.20	0.28	0.34	0.50	0.66	0.71	15.2	
1-1836-621- 5207	D	7.0	0.10	1.6	1.15	1.20	1.25	1.30	1.35	1.40	0.16	0.21	0.31	0.38	0.55	0.72	0.83	17.8	
1-1836-621- 5208	D	8.0	0.10	1.7	1.15	1.20	1.25	1.30	1.35	1.40	0.17	0.23	0.33	0.41	0.60	0.78	0.95	20.3	
1-1836-621- 5209	D	9.0	0.10	1.7	1.15	1.20	1.25	1.30	1.35	1.40	0.18	0.24	0.35	0.44	0.64	0.84	1.07	22.9	
1-1836-621- 5210	D	10.0	0.10	1.7	1.15	1.20	1.25	1.30	1.35	1.40	0.19	0.26	0.38	0.47	0.69	0.90	1.19	25.4	
1-1836-621- 5211	D	11.0	0.10	1.8	1.15	1.20	1.25	1.30	1.35	1.40	0.20	0.28	0.40	0.50	0.74	0.96	1.31	27.9	
1-1836-621- 5212	D	12.0	0.10	1.8	1.15	1.20	1.25	1.30	1.35	1.40	0.21	0.29	0.43	0.53	0.78	1.02	1.43	30.5	
1-1836-621- 5213		13.0	0.15	1.8	1.15	1.20	1.25	1.30	1.35	1.40	0.22	0.31	0.45	0.56	0.83	1.08	1.55	33.0	
1-1836-621- 5214		14.0	0.15	1.9	1.15	1.20	1.25	1.30	1.35	1.40	0.23	0.32	0.47	0.59	0.88	1.14	1.67	35.6	
1-1836-621- 5215		15.0	0.15	1.9	1.15	1.20	1.25	1.30	1.35	1.40	0.24	0.34	0.50	0.62	0.92	1.20	1.79	38.1	
1-1836-621- 5216		16.0	0.15	1.9	1.15	1.20	1.25	1.30	1.35	1.40	0.25	0.36	0.52	0.65	0.97	1.27	1.91	40.6	
1-1836-621- 5217		17.0	0.15	2.0	1.15	1.20	1.25	1.30	1.35	1.40	0.26	0.37	0.55	0.68	1.02	1.33	2.03	43.2	
1-1836-621- 5218	D	18.0	0.15	2.0	1.15	1.20	1.25	1.30	1.35	1.40	0.28	0.39	0.57	0.71	1.06	1.39	2.15	45.7	
1-1836-621- 5219		19.0	0.15	2.0	1.15	1.20	1.25	1.30	1.35	1.40	0.29	0.40	0.59	0.74	1.11	1.45	2.27	48.3	
1-1836-621- 5220		20.0	0.15	2.1	1.15	1.20	1.25	1.30	1.35	1.40	0.30	0.42	0.62	0.77	1.16	1.51	2.39	50.8	
1-1836-621- 5221		21.0	0.15	2.1	1.15	1.20	1.25	1.30	1.35	1.40	0.31	0.44	0.64	0.80	1.20	1.57	2.51	53.3	
1-1836-621- 5222		22.0	0.15	2.1	1.15	1.20	1.25	1.30	1.35	1.40	0.32	0.45	0.66	0.83	1.25	1.63	2.63	55.9	
1-1836-621- 5223		23.0	0.15	2.2	1.15	1.20	1.25	1.30	1.35	1.40	0.33	0.47	0.69	0.86	1.30	1.69	2.75	58.4	
1-1836-621- 5224	D	24.0	0.15	2.2	1.15	1.20	1.25	1.30	1.35	1.40	0.34	0.48	0.71	0.89	1.35	1.75	2.87	61.0	
1-1836-621- 5227		27.0	0.15	2.3	1.15	1.20	1.25	1.30	1.35	1.40	0.37	0.53	0.78	0.98	1.49	1.93	3.23	68.6	
1-1836-621- 5230		30.0	0.15	2.4	1.15	1.20	1.25	1.30	1.35	1.40	0.41	0.58	0.86	1.07	1.63	2.12	3.59	76.2	
1-1836-621- 5233		33.0	0.15	2.5	1.15	1.20	1.25	1.30	1.35	1.40	0.44	0.63	0.93	1.16	1.77	2.30	3.95	83.8	
1-1836-621- 5236		36.0	0.20	2.6	1.15	1.20	1.25	1.30	1.35	1.40	0.47	0.68	1.00	1.26	1.91	2.48	4.31	91.4	
1-1836-621- 5239		39.0	0.20	2.7	1.15	1.20	1.25	1.30	1.35	1.40	0.50	0.72	1.07	1.35	2.05	2.66	4.67	99.1	
1-1836-621- 5242		42.0	0.20	2.8	1.15	1.20	1.25	1.30	1.35	1.40	0.54	0.77	1.14	1.44	2.19	2.85	5.03	107	
1-1836-621- 5245		45.0	0.20	2.9	1.15	1.20	1.25	1.30	1.35	1.40	0.57	0.82	1.21	1.53	2.33	3.03	5.39	114	
1-1836-621- 5248		48.0	0.20	3.0	1.15	1.20	1.25	1.30	1.35	1.40	0.60	0.87	1.28	1.62	2.47	3.21	5.75	122	
1-1836-621- 5254		54.0	0.5	3.2	1.15	1.20	1.25	1.30	1.35	1.40	0.67	0.96	1.43	1.80	2.75	3.58	6.47	137	
1-1836-621- 5260		60.0	0.6	3.5	1.15	1.20	1.25	1.30	1.35	1.40	0.73	1.06	1.57	1.99	3.03	3.94	7.18	152	
1-1836-621- 5266		66.0	0.7	3.7	1.15	1.20	1.25	1.30	1.35	1.40	0.80	1.15	1.71	2.17	3.31	4.31	7.90	168	
1-1836-621- 5272		72.0	0.7	3.9	1.15	1.20	1.25	1.30	1.35	1.40	0.86	1.25	1.86	2.35	3.59	4.67	8.62	183	
1-1836-621- 5284		84.0	0.8	4.3	1.15	1.20	1.25	1.30	1.35	1.40	0.99	1.44	2.14	2.71	4.15	5.40	10.06	213	
1-1836-621- 5296		96.0	1.0	4.7	1.15	1.20	1.25	1.30	1.35	1.40	1.12	1.63	2.43	3.08	4.71	6.13	11.50	244	
1-1836-621- 5209		108	1.1	5.1	1.15	1.20	1.25	1.30	1.35	1.40	1.25	1.82	2.71	3.44	5.27	6.86	12.94	274	
2-1836-621- 5210		120	1.2	5.5	1.15	1.20	1.25	1.30	1.35	1.40	1.38	2.02	3.00	3.81	5.83	7.59	14.37	305	
2-1836-621- 5212		144	1.4	6.3	1.10	1.15	1.20	1.25	1.30	1.35	1.64	2.40	3.57	4.54	6.95	9.05	17.25	366	
2-1836-621- 5215		180	1.8	7.6	1.10	1.15	1.20	1.25	1.30	1.35	2.03	2.97	4.43	5.63	8.64	11.24	21.57	457	
2-1836-621- 5220		240	2.4	9.6	1.10	1.15	1.20	1.25	1.30	1.35	2.68	3.93	5.86	7.45	11.44	14.89	28.76	610	
2-1836-621- 5225		300	3.0	11.7	1.10	1.15	1.20	1.25	1.30	1.35	3.33	4.89	7.29	9.28	14.25	18.53	35.95	762	
2-1836-621- 5230		360	3.6	13.8	1.10	1.15	1.20	1.25	1.30	1.35	3.98	5.85	8.72	11.10	17.05	22.18	43.14	914	
2-1836-621- 5240		480	4.8	17.9	1.10	1.15	1.20	1.25	1.30	1.35	5.28	7.76	11.58	14.74	22.66	29.48	57.52	1219	
2-1836-621- 5250		600	6.0	22.0	1.10	1.15	1.20	1.25	1.30	1.35	6.59	9.68	14.44	18.39	28.27	36.78	71.90	1524	

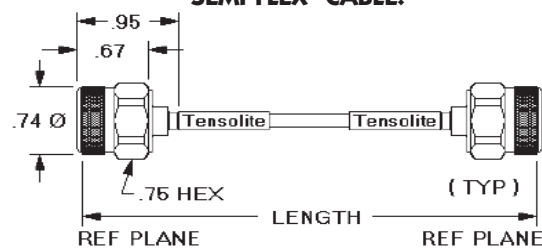
D = DISTRIBUTOR ITEM
 NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.
 PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.
 SEMI-FLEX IS A REGISTERED TRADEMARK OF TENSOLITE CO.
 VISIT OUR WEB SITE AT <http://www.tensolite.com>

Handformable,
Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

18 GHz TYPE N MALE TO TYPE N MALE ON 621 JACKETED
SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50 OHMS					
CAPACITANCE NOMINAL:	29.40 pF/FOOT					
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %					
RELATIVE SHIELDING:	-100 dB MIN.					
INSULATION RESISTANCE:	1000 MEGOHMS MIN.					
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.					
ELECTRICAL DELAY:	1.44 ns/FOOT					
ELECTRICAL DELAY:	120 ps/INCH					
MAX. PULSE RF POWER:	1250 WATTS					
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ----->	1	2	4	6	12	18
MAX. CW WATTS -->	50	35	22	17	12	8
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS						



MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM D1457 PTFE	NONE
TYPE N BODY	ASTM B16 BRASS	QQ-S-365 SILVER PLATE
TYPE N NUT	ASTM B16 BRASS	QQ-N-290 NICKLE PLATE
AVAILABLE GASKET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

NOTES: ORDER GASKET PART NUMBER 5-1368-100-17 IF REQUIRED

MECHANICAL SPECIFICATIONS:

CABLE MAX. DIAMETER:	0.180 INCHES
MIN. BEND RADIUS:	0.18 INCHES
PREFERRED BEND RADIUS:	0.55 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
TYPE N CONNECTOR INTERFACE:	MIL-STD-348 (WITH SOLID OUTER)

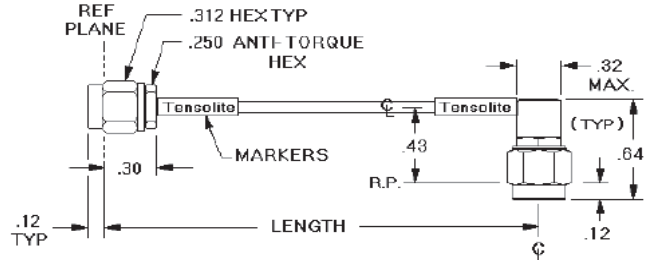
ITEM INFORMATION		MECHANICAL CHARACTERISTICS				S11 AND S22 CHARACTERISTICS						S21 AND S12 CHARACTERISTICS										NOM DELAY nS	LENGTH CM
PART NUMBER		LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)												
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18							
1-1818-621- 3204	D	4.00	0.05	2.2	1.15	1.20	1.25	1.30	1.35	1.40	0.12	0.16	0.24	0.28	0.41	0.54	0.47	10.2					
1-1818-621- 3205	D	5.00	0.05	2.2	1.15	1.20	1.25	1.30	1.35	1.40	0.13	0.18	0.26	0.31	0.46	0.60	0.59	12.7					
1-1818-621- 3206	D	6.00	0.05	2.3	1.15	1.20	1.25	1.30	1.35	1.40	0.15	0.20	0.28	0.34	0.50	0.66	0.71	15.2					
1-1818-621- 3207	D	7.00	0.10	2.3	1.15	1.20	1.25	1.30	1.35	1.40	0.16	0.21	0.31	0.38	0.55	0.72	0.83	17.8					
1-1818-621- 3208	D	8.00	0.10	2.4	1.15	1.20	1.25	1.30	1.35	1.40	0.17	0.23	0.33	0.41	0.60	0.78	0.95	20.3					
1-1818-621- 3209	D	9.00	0.10	2.4	1.15	1.20	1.25	1.30	1.35	1.40	0.18	0.24	0.35	0.44	0.64	0.84	1.07	22.9					
1-1818-621- 3210	D	10.00	0.10	2.4	1.15	1.20	1.25	1.30	1.35	1.40	0.19	0.26	0.38	0.47	0.69	0.90	1.19	25.4					
1-1818-621- 3211	D	11.00	0.10	2.5	1.15	1.20	1.25	1.30	1.35	1.40	0.20	0.28	0.40	0.50	0.74	0.96	1.31	27.9					
1-1818-621- 3212	D	12.00	0.10	2.5	1.15	1.20	1.25	1.30	1.35	1.40	0.21	0.29	0.43	0.53	0.78	1.02	1.43	30.5					
1-1818-621- 3213		13.00	0.15	2.5	1.15	1.20	1.25	1.30	1.35	1.40	0.22	0.31	0.45	0.56	0.83	1.08	1.55	33.0					
1-1818-621- 3214		14.00	0.15	2.6	1.15	1.20	1.25	1.30	1.35	1.40	0.23	0.32	0.47	0.59	0.88	1.14	1.67	35.6					
1-1818-621- 3215		15.00	0.15	2.6	1.15	1.20	1.25	1.30	1.35	1.40	0.24	0.34	0.50	0.62	0.92	1.20	1.79	38.1					
1-1818-621- 3216		16.00	0.15	2.6	1.15	1.20	1.25	1.30	1.35	1.40	0.25	0.36	0.52	0.65	0.97	1.27	1.91	40.6					
1-1818-621- 3217		17.00	0.15	2.7	1.15	1.20	1.25	1.30	1.35	1.40	0.26	0.37	0.55	0.68	1.02	1.33	2.03	43.2					
1-1818-621- 3218	D	18.00	0.15	2.7	1.15	1.20	1.25	1.30	1.35	1.40	0.28	0.39	0.57	0.71	1.06	1.39	2.15	45.7					
1-1818-621- 3219		19.00	0.15	2.7	1.15	1.20	1.25	1.30	1.35	1.40	0.29	0.40	0.59	0.74	1.11	1.45	2.27	48.3					
1-1818-621- 3220		20.00	0.15	2.8	1.15	1.20	1.25	1.30	1.35	1.40	0.30	0.42	0.62	0.77	1.16	1.51	2.39	50.8					
1-1818-621- 3221		21.00	0.15	2.8	1.15	1.20	1.25	1.30	1.35	1.40	0.31	0.44	0.64	0.80	1.20	1.57	2.51	53.3					
1-1818-621- 3222		22.00	0.15	2.8	1.15	1.20	1.25	1.30	1.35	1.40	0.32	0.45	0.66	0.83	1.25	1.63	2.63	55.9					
1-1818-621- 3223		23.00	0.15	2.9	1.15	1.20	1.25	1.30	1.35	1.40	0.33	0.47	0.69	0.86	1.30	1.69	2.75	58.4					
1-1818-621- 3224	D	24.00	0.15	2.9	1.15	1.20	1.25	1.30	1.35	1.40	0.34	0.48	0.71	0.89	1.35	1.75	2.86	61.0					
1-1818-621- 3225		25.00	0.15	2.9	1.15	1.20	1.25	1.30	1.35	1.40	0.35	0.50	0.74	0.92	1.39	1.81	2.98	63.5					
1-1818-621- 3226		26.00	0.15	3.0	1.15	1.20	1.25	1.30	1.35	1.40	0.36	0.52	0.76	0.95	1.44	1.87	3.10	66.0					
1-1818-621- 3227		27.00	0.15	3.0	1.15	1.20	1.25	1.30	1.35	1.40	0.37	0.53	0.78	0.98	1.49	1.93	3.22	68.6					
1-1818-621- 3228		28.00	0.15	3.0	1.15	1.20	1.25	1.30	1.35	1.40	0.38	0.55	0.81	1.01	1.53	1.99	3.34	71.1					
1-1818-621- 3229		29.00	0.15	3.1	1.15	1.20	1.25	1.30	1.35	1.40	0.39	0.56	0.83	1.04	1.58	2.06	3.46	73.7					
1-1818-621- 3230		30.00	0.15	3.1	1.15	1.20	1.25	1.30	1.35	1.40	0.41	0.58	0.86	1.07	1.63	2.12	3.58	76.2					
1-1818-621- 3231		31.00	0.15	3.1	1.15	1.20	1.25	1.30	1.35	1.40	0.42	0.60	0.88	1.10	1.67	2.18	3.70	78.7					
1-1818-621- 3232		32.00	0.15	3.2	1.15	1.20	1.25	1.30	1.35	1.40	0.43	0.61	0.90	1.13	1.72	2.24	3.82	81.3					
1-1818-621- 3233		33.00	0.15	3.2	1.15	1.20	1.25	1.30	1.35	1.40	0.44	0.63	0.93	1.16	1.77	2.30	3.94	83.8					
1-1818-621- 3234		34.00	0.15	3.2	1.15	1.20	1.25	1.30	1.35	1.40	0.45	0.64	0.95	1.20	1.81	2.36	4.06	86.4					
1-1818-621- 3235		35.00	0.15	3.3	1.15	1.20	1.25	1.30	1.35	1.40	0.46	0.66	0.97	1.23	1.86	2.42	4.18	88.9					
1-1818-621- 3236		36.00	0.15	3.3	1.15	1.20	1.25	1.30	1.35	1.40	0.47	0.68	1.00	1.26	1.91	2.48	4.30	91.4					
1-1818-621- 3237		37.00	0.15	3.3	1.15	1.20	1.25	1.30	1.35	1.40	0.48	0.69	1.02	1.29	1.95	2.54	4.42	94.0					
1-1818-621- 3238		38.00	0.20	3.4	1.15	1.20	1.25	1.30	1.35	1.40	0.49	0.71	1.05	1.32	2.00	2.60	4.54	96.5					
1-1818-621- 3239		39.37	0.20	3.4	1.15	1.20	1.25	1.30	1.35	1.40	0.51	0.73	1.08	1.36	2.06	2.69	4.71	100.0					
1-1818-621- 3240		40.00	0.20	3.5	1.15	1.20	1.25	1.30	1.35	1.40	0.51	0.74	1.09	1.38	2.09	2.72	4.78	101.6					
1-1818-621- 3241		41.00	0.20	3.5	1.20	1.25	1.30	1.35	1.40	1.45	0.52	0.76	1.12	1.41	2.14	2.79	4.90	104.1					
1-1818-621- 3242		42.00	0.20	3.5	1.20	1.25	1.30	1.35	1.40	1.45	0.54	0.77	1.14	1.44	2.19	2.85	5.02	106.7					
1-1818-621- 3243		43.00	0.20	3.6	1.20	1.25	1.30	1.35	1.40	1.45	0.55	0.79	1.16	1.47	2.23	2.91	5.14	109.2					
1-1818-621- 3244		44.00	0.20	3.6	1.20	1.25	1.30	1.35	1.40	1.45	0.56	0.80	1.19	1.50	2.28	2.97	5.26	111.8					
1-1818-621- 3245		45.00	0.20	3.6	1.20	1.25	1.30	1.35	1.40	1.45	0.57	0.82	1.21	1.53	2.33	3.03	5.38	114.3					
1-1818-621- 3246		46.00	0.20	3.7	1.20	1.25	1.30	1.35	1.40	1.45	0.58	0.84	1.24	1.56	2.37	3.09	5.50	116.8					
1-1818-621- 3247		47.00	0.20	3.7	1.20	1.25	1.30	1.35	1.40	1.45	0.59	0.85	1.26	1.59	2.42	3.15	5.62	119.4					
1-1818-621- 3248		48.00	0.20	3.7	1.20	1.25	1.30	1.35	1.40	1.45	0.60	0.87	1.28	1.62	2.47	3.21	5.74	121.9					
1-1818-621- 3260		60.00	0.20	4.1	1.20	1.25	1.30	1.35	1.40	1.45	0.73	1.06	1.57	1.99	3.03	3.94	7.18	152.4					
1-1818-621- 3272		72.00	0.20	4.6	1.20	1.25	1.30	1.35	1.40	1.45	0.86	1.25	1.86	2.35	3.59	4.67	8.62	182.4					

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50 OHMS					
CAPACITANCE NOMINAL:	28.80 pF/FOOT					
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %					
RELATIVE SHIELDING:	-100 dB MIN.					
INSULATION RESISTANCE:	1000 MEGOHMS MIN.					
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.					
ELECTRICAL DELAY:	1.44 ns/FOOT					
ELECTRICAL DELAY:	120 ps/INCH					
MAX. PULSE RF POWER:	1250 WATTS					
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ---->	1	2	4	6	12	18
MAX. CW WATTS ---->	50	35	22	17	12	8
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS						

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.180 INCHES
MIN. BEND RADIUS:	0.18 INCHES
PREFERRED BEND RADIUS:	0.55 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
SMA CONNECTOR INTERFACE:	MIL-STD-348 PAGE 310.3

18 GHz SMA MALE TO SMA MALE RT < ON 621 JACKETED SEMI-FLEX® CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
INSULATORS:	ASTM D1457 PTFE	NONE
SMA BODY	ASTM A 582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GASKET	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION		MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS								S21 AND S12 CHARACTERISTICS								LENGTH CM
PART NUMBER		LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)								MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)								
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	NOM DELAY ns				
1-3637-621- 5203	D	3.00	0.05	0.3	1.06	1.10	1.14	1.17	1.20	1.30	0.11	0.14	0.20	0.24	0.35	0.46	0.41	7.62			
1-3637-621- 5204	D	4.00	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.12	0.16	0.23	0.27	0.40	0.52	0.53	10.16			
1-3637-621- 5205	D	5.00	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.13	0.17	0.25	0.30	0.44	0.58	0.65	12.70			
1-3637-621- 5206	D	6.00	0.10	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.14	0.19	0.27	0.33	0.49	0.64	0.77	15.24			
1-3637-621- 5207	D	7.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.15	0.21	0.30	0.36	0.54	0.70	0.89	17.78			
1-3637-621- 5208	D	8.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.16	0.22	0.32	0.39	0.58	0.76	1.01	20.32			
1-3637-621- 5209	D	9.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.17	0.24	0.34	0.42	0.63	0.82	1.13	22.86			
1-3637-621- 5210	D	10.00	0.10	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.18	0.25	0.37	0.45	0.68	0.88	1.25	25.40			
1-3637-621- 5211	D	11.00	0.10	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.19	0.27	0.39	0.48	0.72	0.94	1.37	27.94			
1-3637-621- 5212	D	12.00	0.15	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.20	0.28	0.42	0.52	0.77	1.00	1.49	30.48			
1-3637-621- 5213		13.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.22	0.30	0.44	0.55	0.82	1.07	1.61	33.02			
1-3637-621- 5214		14.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.23	0.32	0.46	0.58	0.86	1.13	1.73	35.56			
1-3637-621- 5215		15.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.24	0.33	0.49	0.61	0.91	1.19	1.85	38.10			
1-3637-621- 5216		16.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.25	0.35	0.51	0.64	0.96	1.25	1.97	40.64			
1-3637-621- 5217		17.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.26	0.36	0.54	0.67	1.00	1.31	2.09	43.18			
1-3637-621- 5218	D	18.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.27	0.38	0.56	0.70	1.05	1.37	2.21	45.72			
1-3637-621- 5219		19.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.28	0.40	0.58	0.73	1.10	1.43	2.33	48.26			
1-3637-621- 5220		20.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.29	0.41	0.61	0.76	1.14	1.49	2.45	50.80			
1-3637-621- 5221		21.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.30	0.43	0.63	0.79	1.19	1.55	2.57	53.34			
1-3637-621- 5222		22.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.31	0.44	0.65	0.82	1.24	1.61	2.69	55.88			
1-3637-621- 5223		23.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.32	0.46	0.68	0.85	1.28	1.67	2.81	58.42			
1-3637-621- 5224	D	24.00	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.33	0.48	0.70	0.88	1.33	1.73	2.93	60.96			
1-3637-621- 5225		25.00	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.35	0.49	0.73	0.91	1.38	1.80	3.05	63.50			
1-3637-621- 5226		26.00	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.36	0.51	0.75	0.94	1.42	1.86	3.17	66.04			
1-3637-621- 5227		27.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.37	0.52	0.77	0.97	1.47	1.92	3.29	68.58			
1-3637-621- 5228		28.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.38	0.54	0.80	1.00	1.52	1.98	3.41	71.12			
1-3637-621- 5229		29.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.39	0.56	0.82	1.03	1.56	2.04	3.53	73.66			
1-3637-621- 5230		30.00	0.15	1.3	1.06	1.10	1.14	1.17	1.20	1.30	0.40	0.57	0.85	1.06	1.61	2.10	3.65	76.20			
1-3637-621- 5233		33.00	0.15	1.4	1.06	1.10	1.14	1.17	1.20	1.30	0.43	0.62	0.92	1.15	1.75	2.28	4.00	83.82			
1-3637-621- 5236		36.00	0.15	1.5	1.06	1.10	1.14	1.17	1.20	1.30	0.46	0.67	0.99	1.24	1.89	2.46	4.36	91.44			
1-3637-621- 5239		39.00	0.15	1.6	1.06	1.10	1.14	1.17	1.20	1.30	0.50	0.72	1.06	1.34	2.03	2.65	4.72	99.06			
1-3637-621- 5242		42.00	0.15	1.7	1.06	1.10	1.14	1.17	1.20	1.30	0.53	0.76	1.13	1.43	2.17	2.83	5.08	106.68			
1-3637-621- 5245		45.00	0.15	1.8	1.06	1.10	1.14	1.17	1.20	1.30	0.56	0.81	1.20	1.52	2.31	3.01	5.44	114.30			
1-3637-621- 5248		48.00	0.15	1.9	1.06	1.10	1.14	1.17	1.20	1.30	0.59	0.86	1.27	1.61	2.45	3.19	5.80	121.92			
1-3637-621- 5254		54.00	0.15	2.1	1.06	1.10	1.14	1.17	1.20	1.30	0.66	0.96	1.42	1.79	2.73	3.56	6.52	137.16			
1-3637-621- 5260		60.00	0.15	2.3	1.06	1.10	1.14	1.17	1.20	1.30	0.73	1.05	1.56	1.97	3.01	3.92	7.24	152.40			
1-3637-621- 5262		62.00	0.15	2.4	1.06	1.10	1.14	1.17	1.20	1.30	0.75	1.08	1.61	2.03	3.11	4.05	7.48	157.48			
1-3637-621- 5264		64.00	0.15	2.4	1.06	1.10	1.14	1.17	1.20	1.30	0.77	1.11	1.66	2.09	3.20	4.17	7.72	162.56			
1-3637-621- 5266		66.00	0.15	2.5	1.06	1.10	1.14	1.17	1.20	1.30	0.79	1.15	1.70	2.16	3.29	4.29	7.96	167.64			
1-3637-621- 5272		72.00	0.15	2.7	1.10	1.15	1.20	1.25	1.30	1.35	0.86	1.24	1.85	2.34	3.57	4.65	8.68	182.88			
1-3637-621- 5284		84.00	0.20	3.1	1.10	1.15	1.20	1.25	1.30	1.35	0.99	1.43	2.13	2.70	4.13	5.38	10.12	213.36			
1-3637-621- 5296		96.00	0.20	3.5	1.10	1.15	1.20	1.25	1.30	1.35	1.12	1.63	2.42	3.07	4.70	6.11	11.55	243.84			
1-3637-621- 5299		99.37	0.20	3.6	1.10	1.15	1.20	1.25	1.30	1.35	1.15	1.68	2.50	3.17	4.85	6.32	11.96	252.40			
2-3637-621- 5209		108.0	0.20	3.9	1.10	1.15	1.20	1.25	1.30	1.35	1.25	1.82	2.70	3.43	5.26	6.84	12.99	274.32			
2-3637-621- 5210		120.0	0.20	4.4	1.10	1.15	1.20	1.25	1.30	1.35	1.38	2.01	2.99	3.80	5.82	7.57	14.43	304.80			
2-3637-621- 5212		144.0	0.20	5.2	1.10	1.15	1.20	1.25	1.30	1.35	1.64	2.39	3.56	4.53	6.94	9.03	17.31	365.76			
2-3637-621- 5215		180.0	0.20	6.4	1.10	1.15	1.20	1.25	1.30	1.35	2.03	2.97	4.42	5.62	8.62	11.22	21.62	457.20			
2-3637-621- 5220		240.0	0.20	8.5	1.10	1.15	1.20	1.25	1.30	1.35	2.68	3.92	5.85	7.44	11.43	14.87	28.81	609.60			
2-3637-621- 5225		300.0	0.20	10.6	1.10	1.15	1.20	1.25	1.30	1.35	3.33	4.88	7.28	9.26	14.23	18.52	36.00	762.00			
2-3637-621- 5230		360.0	0.20	12.6	1.10	1.15	1.20	1.25	1.30	1.35	3.98	5.84	8.71	11.09	17.04	22.17	43.19	914.40			
2-3637-621- 5240		480.0	0.20	16.7	1.10	1.15	1.20	1.25	1.30	1.35	5.28	7.76	11.57	14.73	22.65	29.46	57.57	#####			
2-3637-621- 5250		600.0	0.20	20.9	1.10	1.15	1.20	1.25	1.30	1.35	6.58	9.67	14.43	18.38	28.26	36.76	71.95	#####			

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50	OHMS
CAPACITANCE NOMINAL:	29.40	pt/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.7	%
RELATIVE SHIELDING	-100	db MIN.
INSULATION RESISTANCE:	1000	MEG OHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1000	VRMS MIN.
ELECTRICAL DELAY:	1.44	ns /FOOT
ELECTRICAL DELAY:	120	ps /INCH
MAX. P ₀ LSE RF POWER:	1250	WATTS

(INTO A 50 OHM S-STEM, WITH D₀ T₀ C₀ CLE LESS THAN CW RATING)

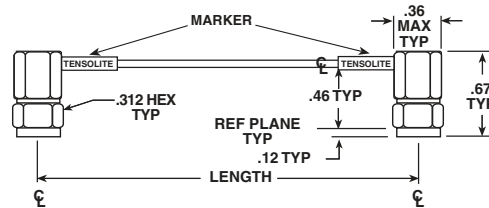
F (IN GHz)→	1	2	4	6	12	18
MAX. CW WATTS →	50	35	22	17	12	8
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05

CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS

MECHANICAL SPECIFICATIONS:

CABLE MAX. DIAMETER:	0.180	INCHES
MIN. BEND RADIUS:	0.18	INCHES
PREFERRED BEND RADIUS:	0.55	INCHES
CONNECTOR RETENTION:	50	POUNDS MIN.
TEMPERATURE RANGE:	-50 / + 85	DEGREES C
MATING TORQUE:	7-10	INCH POUNDS
SMA CONNECTOR INTERFACE:	MIL-STD-348	PAGE 310.3

SMA MALE RIGHT ANGLES ON 621 SEMI FLEX® "PLUS" CABLE



MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	CLEAR
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER:	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
INSULATION:	ASTM D1457 PTFE	NONE
SMA BODY:	ASTM A582 303 STAINLESS STEEL	MIL-G-45204 GOLD PLATED
SMA NUT:	ASTM A582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GAS:	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

NOTES:

DATA SHEET 1-3737-601-3248 DESCRIBES THE POLYURETHANE JACKETED VERSION

A - 4.2ps DELAY /PHASE MATCHED VERSION IS DESCRIBED ON 1-3737-601-P248 DATA SHEET

A 75 OHM POLYURETHANE JACKETED VERSION IS DESCRIBED ON 1-3737-671-3248 DATA SHEET

ITEM INFORMATION		MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS							S21 AND S12 CHARACTERISTICS							DELTA _V nS -4%	LENGTH CM
PART NO.	MBER	LENGTH INCHES	WEIGHT O _U NCES	MAXIM _U M VSWR :1 AT FREQ _U ENC _V (IN GHz.)							MAXIM _U M INSERTION LOSS IN dB AT FREQ. (IN GHz.)									
				0 P TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	0 P TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18					
1-3737-621- 3203	D	3.00	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.11	0.15	0.21	0.25	0.36	0.47	0.42	7.62		
1-3737-621- 3204	D	4.00	0.05	0.4	1.06	1.10	1.14	1.17	1.20	1.30	0.12	0.16	0.24	0.28	0.41	0.54	0.54	10.16		
1-3737-621- 3205	D	5.00	0.05	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.13	0.18	0.26	0.31	0.46	0.60	0.66	12.70		
1-3737-621- 3206	D	6.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.15	0.20	0.28	0.34	0.50	0.66	0.78	15.24		
1-3737-621- 3207	D	7.00	0.10	0.5	1.06	1.10	1.14	1.17	1.20	1.30	0.16	0.21	0.31	0.38	0.55	0.72	0.90	17.78		
1-3737-621- 3208	D	8.00	0.10	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.17	0.23	0.33	0.41	0.60	0.78	1.02	20.32		
1-3737-621- 3209	D	9.00	0.10	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.18	0.24	0.35	0.44	0.64	0.84	1.14	22.86		
1-3737-621- 3210	D	10.00	0.10	0.6	1.06	1.10	1.14	1.17	1.20	1.30	0.19	0.26	0.38	0.47	0.69	0.90	1.26	25.40		
1-3737-621- 3211	D	11.00	0.10	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.20	0.28	0.40	0.50	0.74	0.96	1.38	27.94		
1-3737-621- 3212	D	12.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.21	0.29	0.43	0.53	0.78	1.02	1.50	30.48		
1-3737-621- 3213		13.00	0.15	0.7	1.06	1.10	1.14	1.17	1.20	1.30	0.22	0.31	0.45	0.56	0.83	1.08	1.62	33.02		
1-3737-621- 3214		14.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.23	0.32	0.47	0.59	0.88	1.14	1.74	35.56		
1-3737-621- 3215	D	15.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.24	0.34	0.50	0.62	0.92	1.20	1.86	38.10		
1-3737-621- 3216		16.00	0.15	0.8	1.06	1.10	1.14	1.17	1.20	1.30	0.25	0.36	0.52	0.65	0.97	1.27	1.98	40.64		
1-3737-621- 3217		17.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.26	0.37	0.55	0.68	1.02	1.33	2.10	43.18		
1-3737-621- 3218	D	18.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.28	0.39	0.57	0.71	1.06	1.39	2.22	45.72		
1-3737-621- 3219		19.00	0.15	0.9	1.06	1.10	1.14	1.17	1.20	1.30	0.29	0.40	0.59	0.74	1.11	1.45	2.34	48.26		
1-3737-621- 3220		20.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.30	0.42	0.62	0.77	1.16	1.51	2.46	50.80		
1-3737-621- 3221		21.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.31	0.44	0.64	0.80	1.20	1.57	2.58	53.34		
1-3737-621- 3222		22.00	0.15	1.0	1.06	1.10	1.14	1.17	1.20	1.30	0.32	0.45	0.66	0.83	1.25	1.63	2.70	55.88		
1-3737-621- 3223		23.00	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.33	0.47	0.69	0.86	1.30	1.69	2.82	58.42		
1-3737-621- 3224	D	24.00	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.34	0.48	0.71	0.89	1.35	1.75	2.94	60.96		
1-3737-621- 3225		25.00	0.15	1.1	1.06	1.10	1.14	1.17	1.20	1.30	0.35	0.50	0.74	0.92	1.39	1.81	3.06	63.50		
1-3737-621- 3226		26.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.36	0.52	0.76	0.95	1.44	1.87	3.18	66.04		
1-3737-621- 3227		27.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.37	0.53	0.78	0.98	1.49	1.93	3.30	68.58		
1-3737-621- 3228		28.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.38	0.55	0.81	1.01	1.53	1.99	3.42	71.12		
1-3737-621- 3229		29.00	0.15	1.3	1.06	1.10	1.14	1.17	1.20	1.30	0.39	0.56	0.83	1.04	1.58	2.06	3.54	73.66		
1-3737-621- 3230		30.00	0.15	1.3	1.06	1.10	1.14	1.17	1.20	1.30	0.41	0.58	0.86	1.07	1.63	2.12	3.66	76.20		
1-3737-621- 3231		31.00	0.15	1.3	1.06	1.10	1.14	1.17	1.20	1.30	0.42	0.60	0.88	1.10	1.67	2.18	3.78	78.74		
1-3737-621- 3232		32.00	0.15	1.4	1.06	1.10	1.14	1.17	1.20	1.30	0.43	0.61	0.90	1.13	1.72	2.24	3.90	81.28		
1-3737-621- 3233		33.00	0.15	1.4	1.06	1.10	1.14	1.17	1.20	1.30	0.44	0.63	0.93	1.16	1.77	2.30	4.02	83.82		
1-3737-621- 3234		34.00	0.15	1.4	1.06	1.10	1.14	1.17	1.20	1.30	0.45	0.64	0.95	1.20	1.81	2.36	4.14	86.36		
1-3737-621- 3235		35.00	0.15	1.5	1.06	1.10	1.14	1.17	1.20	1.30	0.46	0.66	0.97	1.23	1.86	2.42	4.26	88.90		
1-3737-621- 3236		36.00	0.15	1.5	1.10	1.15	1.20	1.25	1.30	1.35	0.47	0.68	1.00	1.26	1.91	2.48	4.38	91.44		
1-3737-621- 3237		37.00	0.20	1.6	1.10	1.15	1.20	1.25	1.30	1.35	0.48	0.69	1.02	1.29	1.95	2.54	4.50	93.98		
1-3737-621- 3238		38.00	0.20	1.6	1.10	1.15	1.20	1.25	1.30	1.35	0.49	0.71	1.05	1.32	2.00	2.60	4.62	96.52		
1-3737-621- 3239		39.00	0.20	1.6	1.10	1.15	1.20	1.25	1.30	1.35	0.50	0.72	1.07	1.35	2.05	2.66	4.74	99.06		
1-3737-621- 3240		40.00	0.20	1.7	1.10	1.15	1.20	1.25	1.30	1.35	0.51	0.74	1.09	1.38	2.09	2.72	4.86	101.60		
1-3737-621- 3241		41.00	0.20	1.7	1.10	1.15	1.20	1.25	1.30	1.35	0.52	0.76	1.12	1.41	2.14	2.79	4.98	104.14		
1-3737-621- 3242		42.00	0.20	1.7	1.10	1.15	1.20	1.25	1.30	1.35	0.54	0.77	1.14	1.44	2.19	2.85	5.10	106.68		
1-3737-621- 3243		43.00	0.20	1.8	1.10	1.15	1.20	1.25	1.30	1.35	0.55	0.79	1.16	1.47	2.23	2.91	5.22	109.22		
1-3737-621- 3244		44.00	0.20	1.8	1.10	1.15	1.20	1.25	1.30	1.35	0.56	0.80	1.19	1.50	2.28	2.97	5.34	111.76		
1-3737-621- 3245		45.00	0.20	1.8	1.10	1.15	1.20	1.25	1.30	1.35	0.57	0.82	1.21	1.53	2.33	3.03	5.46	114.30		
1-3737-621- 3246		46.00	0.20	1.9	1.10	1.15	1.20	1.25	1.30	1.35	0.58	0.84	1.24	1.56	2.37	3.09	5.58	116.84		
1-3737-621- 3247		47.00	0.20	1.9	1.10	1.15	1.20	1.25	1.30	1.35	0.59	0.85	1.26	1.59	2.42	3.15	5.70	119.38		
1-3737-621- 3248		48.00	0.20	1.9	1.10	1.15	1.20	1.25	1.30	1.35	0.60	0.87	1.28	1.62	2.47	3.21	5.81	121.92		
D = DISTRIB _U TOR ITEM				MAXIM _U M SPECIFICATIONS ARE PROD _U CT MAXIM _U M PL _U S MEAS _U RING S _U STEM _U NCERTAINT _V .																

D - DISTRIBUTOR ITEM

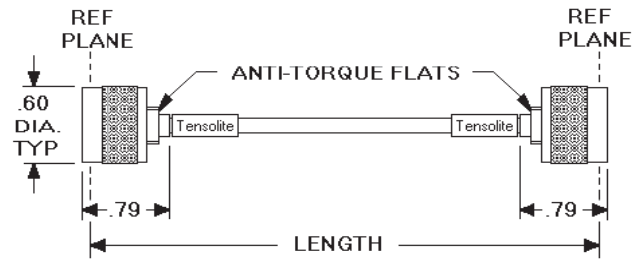
MAXIMUM M SPECIFICATIONS ARE PRODUCTION MAXIMUM M PLACEMENT MEASUREMENT RING SIZE TOLERANCE.

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50 OHMS					
CAPACITANCE NOMINAL:	29.40 pF/FOOT					
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %					
RELATIVE SHIELDING:	-100 dB MIN.					
INSULATION RESISTANCE:	1000 MEGOHMS MIN.					
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.					
ELECTRICAL DELAY:	1.44 ns/FOOT					
ELECTRICAL DELAY:	120 ps/INCH					
MAX. PULSE RF POWER:	1250 WATTS					
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)						
F (IN GHz) ----->	1	2	4	6	12	18
MAX. CW WATTS ---->	50	35	22	17	12	8
PHASE STABILITY DEG	0.2	0.3	0.7	1	2	3
LOSS STABILITY dB	0.01	0.01	0.01	0.02	0.03	0.05
CABLE FORMED 90 DEGREES ON A .40 INCH RADIUS						

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.180 INCHES
MIN. BEND RADIUS:	0.18 INCHES
PREFERRED BEND RADIUS:	0.55 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-50 / +85 DEGREES C.
MATING TORQUE:	7-10 INCH POUNDS
TNC CONNECTOR INTERFACE:	MIL-STD-348 (WITH SOLID OUTER)

TNC MALES ON 621 CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET (SEE NOTE):	POLYURETHANE	GREY TINT
OUTER CONDUCTOR:	HIGH STRENGTH COPPER BRAID	TIN COATED
MARKER:	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTNM D1457 PTFE	NONE
TNC BODY:	ASTM B16 BRASS	QQ-S-365 SILVER PLATED
TNC NUT:	ASTM B16 BRASS	QQ-N-290 NICKEL PLATED
GASKET:	ZZ-R-765 SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION		MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS							S21 AND S12 CHARACTERISTICS								LENGTH CM
PART NUMBER		LENGTH INCHES	+ - LENGTH	WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						NOM DELAY nS			
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18				
1-3030-621- 3204		4.00	0.05	2.0	1.15	1.20	1.25	1.30	1.35	1.45	0.13	0.18	0.26	0.31	0.44	0.58	0.48	10.16		
1-3030-621- 3205		5.00	0.05	2.0	1.15	1.20	1.25	1.30	1.35	1.45	0.14	0.19	0.28	0.34	0.49	0.64	0.60	12.70		
1-3030-621- 3206		6.00	0.05	2.1	1.15	1.20	1.25	1.30	1.35	1.45	0.16	0.21	0.30	0.37	0.54	0.70	0.72	15.24		
1-3030-621- 3207		7.00	0.10	2.1	1.15	1.20	1.25	1.30	1.35	1.45	0.17	0.23	0.33	0.40	0.59	0.76	0.84	17.78		
1-3030-621- 3208		8.00	0.10	2.2	1.15	1.20	1.25	1.30	1.35	1.45	0.18	0.24	0.35	0.43	0.63	0.82	0.96	20.32		
1-3030-621- 3209		9.00	0.10	2.2	1.15	1.20	1.25	1.30	1.35	1.45	0.19	0.26	0.37	0.46	0.68	0.88	1.08	22.86		
1-3030-621- 3210		10.00	0.10	2.2	1.15	1.20	1.25	1.30	1.35	1.45	0.20	0.27	0.40	0.49	0.73	0.94	1.20	25.40		
1-3030-621- 3211		11.00	0.10	2.3	1.15	1.20	1.25	1.30	1.35	1.45	0.21	0.29	0.42	0.52	0.77	1.00	1.32	27.94		
1-3030-621- 3212		12.00	0.10	2.3	1.15	1.20	1.25	1.30	1.35	1.45	0.22	0.31	0.45	0.55	0.82	1.06	1.44	30.48		
1-3030-621- 3213		13.00	0.15	2.3	1.15	1.20	1.25	1.30	1.35	1.45	0.23	0.32	0.47	0.58	0.87	1.13	1.56	33.02		
1-3030-621- 3214		14.00	0.15	2.4	1.15	1.20	1.25	1.30	1.35	1.45	0.24	0.34	0.49	0.61	0.91	1.19	1.68	35.56		
1-3030-621- 3215		15.00	0.15	2.4	1.15	1.20	1.25	1.30	1.35	1.45	0.25	0.35	0.52	0.64	0.96	1.25	1.80	38.10		
1-3030-621- 3216		16.00	0.15	2.4	1.15	1.20	1.25	1.30	1.35	1.45	0.26	0.37	0.54	0.67	1.01	1.31	1.92	40.64		
1-3030-621- 3217		17.00	0.15	2.5	1.15	1.20	1.25	1.30	1.35	1.45	0.27	0.39	0.57	0.70	1.05	1.37	2.04	43.18		
1-3030-621- 3218		18.00	0.15	2.5	1.15	1.20	1.25	1.30	1.35	1.45	0.29	0.40	0.59	0.73	1.10	1.43	2.16	45.72		
1-3030-621- 3219		19.00	0.15	2.5	1.15	1.20	1.25	1.30	1.35	1.45	0.30	0.42	0.61	0.76	1.15	1.49	2.28	48.26		
1-3030-621- 3220		20.00	0.15	2.6	1.15	1.20	1.25	1.30	1.35	1.45	0.31	0.43	0.64	0.79	1.19	1.55	2.40	50.80		
1-3030-621- 3221		21.00	0.15	2.6	1.15	1.20	1.25	1.30	1.35	1.45	0.32	0.45	0.66	0.82	1.24	1.61	2.52	53.34		
1-3030-621- 3222		22.00	0.15	2.6	1.15	1.20	1.25	1.30	1.35	1.45	0.33	0.47	0.68	0.86	1.29	1.67	2.64	55.88		
1-3030-621- 3223		23.00	0.15	2.7	1.15	1.20	1.25	1.30	1.35	1.45	0.34	0.48	0.71	0.89	1.33	1.73	2.76	58.42		
1-3030-621- 3224		24.00	0.15	2.7	1.15	1.20	1.25	1.30	1.35	1.45	0.35	0.50	0.73	0.92	1.38	1.79	2.88	60.96		
1-3030-621- 3225		25.00	0.15	2.7	1.15	1.20	1.25	1.30	1.35	1.45	0.36	0.51	0.76	0.95	1.43	1.85	3.00	63.50		
1-3030-621- 3226		26.00	0.15	2.8	1.15	1.20	1.25	1.30	1.35	1.45	0.37	0.53	0.78	0.98	1.47	1.92	3.12	66.04		
1-3030-621- 3227		27.00	0.15	2.8	1.15	1.20	1.25	1.30	1.35	1.45	0.38	0.55	0.80	1.01	1.52	1.98	3.24	68.58		
1-3030-621- 3228		28.00	0.15	2.8	1.15	1.20	1.25	1.30	1.35	1.45	0.39	0.56	0.83	1.04	1.57	2.04	3.36	71.12		
1-3030-621- 3229		29.00	0.15	2.9	1.15	1.20	1.25	1.30	1.35	1.45	0.40	0.58	0.85	1.07	1.61	2.10	3.48	73.66		
1-3030-621- 3230		30.00	0.15	2.9	1.15	1.20	1.25	1.30	1.35	1.45	0.42	0.59	0.88	1.10	1.66	2.16	3.60	76.20		
1-3030-621- 3231		31.00	0.15	2.9	1.15	1.20	1.25	1.30	1.35	1.45	0.43	0.61	0.90	1.13	1.71	2.22	3.71	78.74		
1-3030-621- 3232		32.00	0.15	3.0	1.15	1.20	1.25	1.30	1.35	1.45	0.44	0.63	0.92	1.16	1.75	2.28	3.83	81.28		
1-3030-621- 3233		33.00	0.15	3.0	1.15	1.20	1.25	1.30	1.35	1.45	0.45	0.64	0.95	1.19	1.80	2.34	3.95	83.82		
1-3030-621- 3234		34.00	0.15	3.0	1.15	1.20	1.25	1.30	1.35	1.45	0.46	0.66	0.97	1.22	1.85	2.40	4.07	86.36		
1-3030-621- 3235		35.00	0.15	3.1	1.15	1.20	1.25	1.30	1.35	1.45	0.47	0.67	0.99	1.25	1.89	2.46	4.19	88.90		
1-3030-621- 3236		36.00	0.15	3.1	1.15	1.20	1.25	1.30	1.35	1.45	0.48	0.69	1.02	1.28	1.94	2.52	4.31	91.44		
1-3030-621- 3237		37.00	0.20	3.1	1.15	1.20	1.25	1.30	1.35	1.45	0.49	0.71	1.04	1.31	1.99	2.58	4.43	93.98		
1-3030-621- 3238		38.00	0.20	3.2	1.15	1.20	1.25	1.30	1.35	1.45	0.50	0.72	1.07	1.34	2.03	2.65	4.55	96.52		
1-3030-621- 3239		39.00	0.20	3.2	1.15	1.20	1.25	1.30	1.35	1.45	0.51	0.74	1.09	1.37	2.08	2.71	4.67	99.06		
1-3030-621- 3240		40.00	0.20	3.3	1.15	1.20	1.25	1.30	1.35	1.45	0.52	0.75	1.11	1.40	2.13	2.77	4.79	101.60		
1-3030-621- 3241		41.00	0.20	3.3	1.15	1.20	1.25	1.30	1.35	1.45	0.53	0.77	1.14	1.43	2.17	2.83	4.91	104.14		
1-3030-621- 3242		42.00	0.20	3.3	1.15	1.20	1.25	1.30	1.35	1.45	0.55	0.79	1.16	1.46	2.22	2.89	5.03	106.68		
1-3030-621- 3243		43.00	0.20	3.4	1.15	1.20	1.25	1.30	1.35	1.45	0.56	0.80	1.18	1.49	2.27	2.95	5.15	109.22		
1-3030-621- 3244		44.00	0.20	3.4	1.15	1.20	1.25	1.30	1.35	1.45	0.57	0.82	1.21	1.52	2.31	3.01	5.27	111.76		
1-3030-621- 3245		45.00	0.20	3.4	1.15	1.20	1.25	1.30	1.35	1.45	0.58	0.83	1.23	1.55	2.36	3.07	5.39	114.30		
1-3030-621- 3246		46.00	0.20	3.5	1.15	1.20	1.25	1.30	1.35	1.45	0.59	0.85	1.26	1.58	2.41	3.13	5.51	116.84		
1-3030-621- 3247		47.00	0.20	3.5	1.15	1.20	1.25	1.30	1.35	1.45	0.60	0.87	1.28	1.61	2.45	3.19	5.63	119.38		
1-3030-621- 3248		48.00	0.20	3.5	1.15	1.20	1.25	1.30	1.35	1.45	0.61	0.88	1.30	1.65	2.50	3.25	5.75	121.92		

MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM PLUS MEASURING SYSTEM UNCERTAINTY.

NOTE: ALL SPECIFICATIONS APPLY AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.

PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.

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