



ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50 OHMS					
CAPACITANCE NOMINAL:	28.8 pf/FOOT					
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %					
RELATIVE SHIELDING:	-100.0 dB MIN.					
INSULATION RESISTANCE:	1000 MEGOHMS MIN.					
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.					
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT					
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH					
PULSE RF POWER:	1250 WATTS MAX. (INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)					
F (IN GHz) ----->	1	2	4	6	12.4	18
MAX. CW WATTS ----->	50	33	22	17.3	11.4	8.50
PHASE STABILITY DEG.	0.3	0.6	1.2	1.8	3.6	5.4
LOSS STABILITY dB----->	0.01	0.01	0.01	0.015	0.031	0.045
CABLE FORMED AND STRAIGHTENED 90 DEGREES ON A 4" RADIUS						

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.222 INCHES
MINIMUM BEND RADIUS:	4.00 INCHES
CONNECTOR RETENTION:	100 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +85 DEGREES C
MATING TORQUE:	7-10 SMA, 10-15 N INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 N=SOLID OUTER

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE:	7-1112-524-11	SEE DATA SHEET
CABLE JACKET:	POLYURETHANE	BLACK
MARKER:	MIL-I-23053	WHITE/BLACK MARKING
BOOTS:	MIL-I-23053	BLACK
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 A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
TYPE N NUT:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA BODY:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA NUT:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
SMA GASKET:	ZZ-R-765 SILICON RUBBER	RED
THE TYPE N CONNECTOR DOES NOT HAVE A WEATHER SEALING GASKET. A USER INSTALLED TYPE N GASKET IS AVAILABLE. ORDER GASKET, PART NUMBER 5-1368-100-17 (PKG OF 100).		
SOLVENTS: NO OZONE DEPLETING MATERIALS ARE USED		

PART NUMBER		LENGTH INCHES	+ - LENGTH	MAX. WEIGHT OUNCES	MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)								MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						LENGTH CM
					UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12.4	12 TO 18	UP TO 1	1 TO 2	2 TO 4	4 TO 6	6 TO 12.4	12 TO 18			
1-1836-524-WH 24	S	24.0	0.25	5.4	1.07	1.12	1.18	1.23	1.28	1.30	0.33	0.44	0.68	0.86	1.32	1.69	61.0		
1-1836-524-WH 30	S	30.0	0.30	5.8	1.07	1.12	1.18	1.23	1.28	1.30	0.39	0.53	0.83	1.04	1.60	2.05	76.2		
1-1836-524-WH 36	S	36.0	0.36	6.1	1.07	1.12	1.18	1.23	1.28	1.30	0.46	0.62	0.97	1.22	1.89	2.41	91.4		
1-1836-524-WH 39	M	39.4	0.39	6.3	1.07	1.12	1.18	1.23	1.28	1.30	0.49	0.68	1.05	1.32	2.05	2.61	100.1		
1-1836-524-WH 48	S	48.0	0.48	6.9	1.07	1.12	1.18	1.23	1.28	1.30	0.58	0.81	1.25	1.58	2.45	3.13	121.9		
1-1836-524-WH 59	M	59.1	0.59	7.6	1.07	1.12	1.18	1.23	1.28	1.30	0.70	0.99	1.51	1.91	2.97	3.79	150.0		
1-1836-524-WH 60	S	60.0	0.60	7.6	1.10	1.15	1.20	1.25	1.30	1.35	0.71	1.00	1.53	1.94	3.01	3.85	152.4		
1-1836-524-WH 72	S	72.0	0.72	8.4	1.10	1.15	1.20	1.25	1.30	1.35	0.84	1.19	1.81	2.30	3.58	4.57	182.9		
1-1836-524-WH 79	M	78.8	0.79	8.8	1.10	1.15	1.20	1.25	1.30	1.35	0.91	1.30	1.97	2.50	3.90	4.98	200.2		
1-1836-524-WH 84	S	84.0	0.84	9.1	1.10	1.15	1.20	1.25	1.30	1.35	0.97	1.38	2.10	2.66	4.14	5.29	213.4		
1-1836-524-WH 96	S	96.0	0.96	9.9	1.10	1.15	1.20	1.25	1.30	1.35	1.10	1.57	2.38	3.02	4.71	6.01	243.8		
2-1836-524-WH 10		120.0	1.20	11.4	1.12	1.18	1.23	1.28	1.35	1.38	1.36	1.95	2.94	3.74	5.84	7.45	304.8		
2-1836-524-WH 12		144.0	1.44	12.9	1.12	1.18	1.23	1.28	1.35	1.38	1.61	2.33	3.51	4.45	6.97	8.89	365.8		
2-1836-524-WH 15	D	180.0	1.80	15.2	1.12	1.18	1.23	1.28	1.35	1.38	2.00	2.90	4.36	5.53	8.66	11.05	457.2		
2-1836-524-WH 20	D	240.0	2.40	18.9	1.12	1.18	1.23	1.28	1.35	1.38	2.64	3.84	5.77	7.33	11.49	14.65	609.6		
2-1836-524-WH 25	D	300.0	3.00	22.7	1.12	1.18	1.23	1.28	1.35	1.38	3.29	4.79	7.18	9.13	14.31	18.25	762.0		
2-1836-524-WH 30	D	360.0	3.60	26.4	1.12	1.18	1.23	1.28	1.35	1.38	3.93	5.73	8.59	10.93	17.13	21.85	914.4		
1 = INCHES		S = STANDARD ITEM		MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM INCLUDING MEASURING SYSTEM UNCERTAINTY.															
2 = FEET		M = METRIC EQUIVALENT LENGTH																	
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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