

SEMI-FLEX® SERIES

Assembly Cable Code	Bulk Cable P/N	OD
604	7-1114-604-18	.047"
600	7-1114-600-18	.087"
601	7-1114-601-18	.141"
606	7-1114-606-18	.250"



DESCRIPTION

SEMI-FLEX® is a unique ALTERNATIVE to the use of semi-rigid coax. A tin filled wire braid outer conductor allows easy flexing and re-bending by hand. A solid copper secondary outer conductor and semi-rigid style core ensure electrical performance comparable to semi-rigid.

No significant electrical degradation occurs when SEMI-FLEX® is formed! The cable retains its' shape, making installations simple. The malleable outer jacket virtually eliminates solder joint failures. Specifying Tensolite's high performance anti-torque SMA remarkably extends the cables' useful life.

Now you can meet deadlines, reduce costs, eliminate tooling, ease design, drafting, purchasing and manufacturing problems all at once with SEMI-FLEX®.

APPLICATIONS

- Replacement for OEM semi-rigid
- RFI and leakage sensitive areas
- Low cost, temporary port extensions
- Breadboarding and design phase
- Emergency field replacement
- Replacement for many flexible cables

FEATURES

- 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 same day to 24 hour delivery
- Equipped with Tensolite's anti-torque SMA for long life

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

A CARLISLE Company

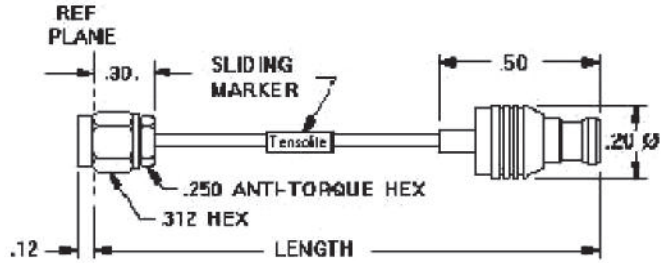
Website: www.tensolite.com

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.40 pF/FOOT
RELATIVE SHIELDING:	70.7 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	-100 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	1 2 4 6
MAX. CW WATTS ---->	32 22 15 13

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.047 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	20 POUNDS MIN.
TEMPERATURE RANGE:	-65 / +105 DEGREES C
SMA MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 CECC 2220

SMA MALE TO MCX MALE ON 604 SEMI-FLEX® CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
OUTER CONDUCTOR:	HIGH STRENGTH WIRE BRAID	TIN FILLED
MARKER:	MIL-I-23053/5	GRAY
BOOTS:	NONE	BLACK
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
MCX BODY:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
SMA BODY:	ASTM-A-582, 303 STAINLESS STEEL	QQ-9-35, PASSIVATED
SMA NUT:	ASTM-A-582, 303 STAINLESS STEEL	QQ-P-35, PASSIVATED
SMA CONTACT:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SMA GASKET:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS LENGTH INCHES + / - LENGTH WEIGHT OUNCES			S11 AND S22 CHARACTERISTICS MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						S21 AND S12 CHARACTERISTICS MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						NOM DELAY nS	LENGTH CM
				UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
				1-36M6-604- 5202	2.0	0.05	0.2	1.13	1.17	1.21	1.23	1.30	0.18	0.24	0.29		
1-36M6-604- 5203	3.0	0.05	0.2	1.13	1.17	1.21	1.23	1.30	0.21	0.28	0.35	0.40	0.50	0.36	7.6		
1-36M6-604- 5204	4.0	0.05	0.2	1.13	1.17	1.21	1.23	1.30	0.24	0.33	0.41	0.47	0.58	0.48	10.2		
1-36M6-604- 5205	5.0	0.05	0.3	1.13	1.17	1.21	1.23	1.30	0.27	0.38	0.47	0.54	0.66	0.60	12.7		
1-36M6-604- 5206	6.0	0.05	0.3	1.13	1.17	1.21	1.23	1.30	0.31	0.43	0.53	0.60	0.74	0.72	15.2		
1-36M6-604- 5207	7.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.34	0.47	0.58	0.67	0.83	0.84	17.8		
1-36M6-604- 5208	8.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.37	0.52	0.64	0.74	0.91	0.96	20.3		
1-36M6-604- 5209	9.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.41	0.57	0.70	0.81	0.99	1.08	22.9		
1-36M6-604- 5210	10.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.44	0.61	0.76	0.87	1.08	1.20	25.4		
1-36M6-604- 5211	11.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.47	0.66	0.82	0.94	1.16	1.32	27.9		
1-36M6-604- 5212	12.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.51	0.71	0.87	1.01	1.24	1.44	30.5		
1-36M6-604- 5213	13.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.54	0.75	0.93	1.07	1.33	1.56	33.0		
1-36M6-604- 5214	14.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.57	0.80	0.99	1.14	1.41	1.68	35.6		
1-36M6-604- 5215	15.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.60	0.85	1.05	1.21	1.49	1.80	38.1		
1-36M6-604- 5216	16.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.64	0.90	1.11	1.28	1.58	1.92	40.6		
1-36M6-604- 5217	17.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.67	0.94	1.16	1.34	1.66	2.04	43.2		
1-36M6-604- 5218	18.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.70	0.99	1.22	1.41	1.74	2.16	45.7		
1-36M6-604- 5219	19.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.74	1.04	1.28	1.48	1.83	2.28	48.3		
1-36M6-604- 5220	20.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.77	1.08	1.34	1.55	1.91	2.40	50.8		
1-36M6-604- 5221	21.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.80	1.13	1.40	1.61	1.99	2.52	53.3		
1-36M6-604- 5222	22.0	0.15	0.3	1.13	1.17	1.21	1.23	1.30	0.83	1.18	1.45	1.68	2.08	2.64	55.9		
1-36M6-604- 5223	23.0	0.15	0.4	1.13	1.17	1.21	1.23	1.30	0.87	1.22	1.51	1.75	2.16	2.76	58.4		
1-36M6-604- 5224	24.0	0.20	0.4	1.13	1.17	1.21	1.23	1.30	0.90	1.27	1.57	1.81	2.24	2.88	61.0		
1-36M6-604- 5227	27.0	0.20	0.4	1.13	1.17	1.21	1.23	1.30	1.00	1.41	1.74	2.02	2.49	3.24	68.6		
1-36M6-604- 5230	30.0	0.20	0.4	1.13	1.17	1.21	1.23	1.30	1.10	1.55	1.92	2.22	2.74	3.60	76.2		
1-36M6-604- 5233	33.0	0.20	0.4	1.13	1.17	1.21	1.23	1.30	1.20	1.69	2.09	2.42	2.99	3.95	83.8		
1-36M6-604- 5236	36.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	1.30	1.83	2.26	2.62	3.24	4.31	91.4		
1-36M6-604- 5239	39.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	1.39	1.98	2.44	2.82	3.49	4.67	99.1		
1-36M6-604- 5242	42.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	1.49	2.12	2.61	3.03	3.74	5.03	106.7		
1-36M6-604- 5245	45.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	1.59	2.26	2.79	3.23	3.99	5.39	114.3		
1-36M6-604- 5248	48.0	0.30	0.5	1.13	1.17	1.21	1.23	1.30	1.69	2.40	2.96	3.43	4.24	5.75	121.9		

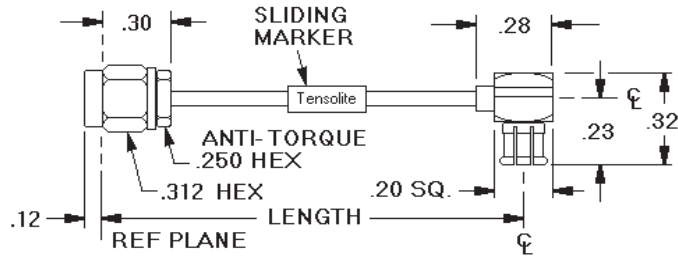
MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM PLUS MEASURING SYSTEM UNCERTAINTY.
 NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.
 PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT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

Handformable, Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

SMA MALE TO MCX MALE RT.< ON 604 SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.40 pF/FOOT
RELATIVE SHIELDING:	70.7 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	-100 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	1 2 4 6
MAX. CW WATTS ---->	32 22 15 13



MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.047 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	20 POUNDS MIN.
TEMPERATURE RANGE:	-65 / +105 DEGREES C
SMA MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 CECC 2220

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
OUTER CONDUCTOR:	HIGH STRENGTH WIRE BRAID	TIN FILLED
MARKER:	MIL-I-23053/5	GRAY
BOOTS:	NONE	BLACK
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
MCX BODY:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
SMA BODY:	ASTM-A-582, 303 STAINLESS STEEL	QQ-9-35, PASSIVATED
SMA NUT:	ASTM-A-582, 303 STAINLESS STEEL	QQ-P-35, PASSIVATED
CONTACTS:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SMA GASKET:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS						S21 AND S12 CHARACTERISTICS						NOM DELAY nS	LENGTH CM
				MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)							
				UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
1-36M7-604- 5202	2.0	0.05	0.2	1.15	1.20	1.25	1.30	1.35	0.18	0.24	0.29	0.33	0.41	0.24	5.1		
1-36M7-604- 5203	3.0	0.05	0.2	1.15	1.20	1.25	1.30	1.35	0.21	0.28	0.35	0.40	0.50	0.36	7.6		
1-36M7-604- 5204	4.0	0.05	0.2	1.15	1.20	1.25	1.30	1.35	0.24	0.33	0.41	0.47	0.58	0.48	10.2		
1-36M7-604- 5205	5.0	0.05	0.3	1.15	1.20	1.25	1.30	1.35	0.27	0.38	0.47	0.54	0.66	0.60	12.7		
1-36M7-604- 5206	6.0	0.05	0.3	1.15	1.20	1.25	1.30	1.35	0.31	0.43	0.53	0.60	0.74	0.72	15.2		
1-36M7-604- 5207	7.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.34	0.47	0.58	0.67	0.83	0.84	17.8		
1-36M7-604- 5208	8.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.37	0.52	0.64	0.74	0.91	0.96	20.3		
1-36M7-604- 5209	9.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.41	0.57	0.70	0.81	0.99	1.08	22.9		
1-36M7-604- 5210	10.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.44	0.61	0.76	0.87	1.08	1.20	25.4		
1-36M7-604- 5211	11.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.47	0.66	0.82	0.94	1.16	1.32	27.9		
1-36M7-604- 5212	12.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.51	0.71	0.87	1.01	1.24	1.44	30.5		
1-36M7-604- 5213	13.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.54	0.75	0.93	1.07	1.33	1.56	33.0		
1-36M7-604- 5214	14.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.57	0.80	0.99	1.14	1.41	1.68	35.6		
1-36M7-604- 5215	15.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.60	0.85	1.05	1.21	1.49	1.80	38.1		
1-36M7-604- 5216	16.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.64	0.90	1.11	1.28	1.58	1.92	40.6		
1-36M7-604- 5217	17.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.67	0.94	1.16	1.34	1.66	2.04	43.2		
1-36M7-604- 5218	18.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.70	0.99	1.22	1.41	1.74	2.16	45.7		
1-36M7-604- 5219	19.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.74	1.04	1.28	1.48	1.83	2.28	48.3		
1-36M7-604- 5220	20.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.77	1.08	1.34	1.55	1.91	2.40	50.8		
1-36M7-604- 5221	21.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.80	1.13	1.40	1.61	1.99	2.52	53.3		
1-36M7-604- 5222	22.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.83	1.18	1.45	1.68	2.08	2.64	55.9		
1-36M7-604- 5223	23.0	0.15	0.4	1.15	1.20	1.25	1.30	1.35	0.87	1.22	1.51	1.75	2.16	2.76	58.4		
1-36M7-604- 5224	24.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	0.90	1.27	1.57	1.81	2.24	2.88	61.0		
1-36M7-604- 5227	27.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	1.00	1.41	1.74	2.02	2.49	3.24	68.6		
1-36M7-604- 5230	30.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	1.10	1.55	1.92	2.22	2.74	3.60	76.2		
1-36M7-604- 5233	33.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	1.20	1.69	2.09	2.42	2.99	3.95	83.8		
1-36M7-604- 5236	36.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	1.30	1.83	2.26	2.62	3.24	4.31	91.4		
1-36M7-604- 5239	39.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	1.39	1.98	2.44	2.82	3.49	4.67	99.1		
1-36M7-604- 5242	42.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	1.49	2.12	2.61	3.03	3.74	5.03	106.7		
1-36M7-604- 5245	45.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	1.59	2.26	2.79	3.23	3.99	5.39	114.3		
1-36M7-604- 5248	48.0	0.30	0.5	1.15	1.20	1.25	1.30	1.35	1.69	2.40	2.96	3.43	4.24	5.75	121.9		

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.

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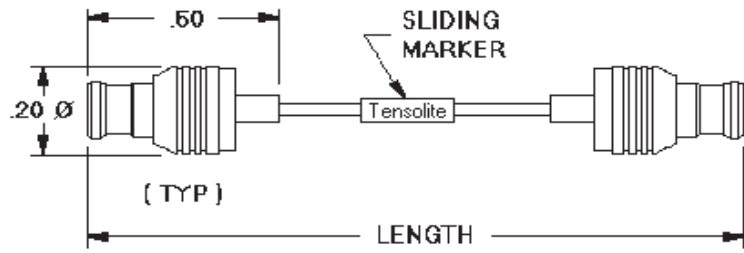
Handformable,
Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.7 pf/FOOT
RELATIVE SHIELDING:	> -100 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	0.5 1 2 4 6
MAX. CW WATTS ---->	45 33 20 17 13

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.047 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	30 POUNDS MIN.
TEMPERATURE RANGE:	-55/+105 DEGREES C
MATING TORQUE:	N/A INCH POUNDS
CONNECTOR INTERFACES:	CECC 2220

MCX MALE TO MCX MALE ON 604 SEMI-FLEX® CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
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
BODIES:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
CONTACTS:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS						S21 AND S12 CHARACTERISTICS						LENGTH CM	
	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 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
1-M6M6-604- 3202	2.0	0.05	0.3	1.13	1.17	1.21	1.23	1.30	0.20	0.27	0.33	0.37	0.46	0.24	5.1		
1-M6M6-604- 3203	3.0	0.05	0.3	1.13	1.17	1.21	1.23	1.30	0.23	0.31	0.39	0.44	0.54	0.36	7.6		
1-M6M6-604- 3204	4.0	0.05	0.3	1.13	1.17	1.21	1.23	1.30	0.26	0.36	0.44	0.51	0.63	0.48	10.2		
1-M6M6-604- 3205	5.0	0.05	0.3	1.13	1.17	1.21	1.23	1.30	0.29	0.41	0.50	0.58	0.71	0.60	12.7		
1-M6M6-604- 3206	6.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.33	0.45	0.56	0.64	0.79	0.72	15.2		
1-M6M6-604- 3207	7.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.36	0.50	0.62	0.71	0.88	0.84	17.8		
1-M6M6-604- 3208	8.0	0.10	0.3	1.13	1.17	1.21	1.23	1.30	0.39	0.55	0.68	0.78	0.96	0.96	20.3		
1-M6M6-604- 3209	9.0	0.10	0.4	1.13	1.17	1.21	1.23	1.30	0.43	0.59	0.73	0.85	1.04	1.08	22.9		
1-M6M6-604- 3210	10.0	0.10	0.4	1.13	1.17	1.21	1.23	1.30	0.46	0.64	0.79	0.91	1.13	1.20	25.4		
1-M6M6-604- 3211	11.0	0.10	0.4	1.13	1.17	1.21	1.23	1.30	0.49	0.69	0.85	0.98	1.21	1.32	27.9		
1-M6M6-604- 3212	12.0	0.15	0.4	1.13	1.17	1.21	1.23	1.30	0.53	0.74	0.91	1.05	1.29	1.44	30.5		
1-M6M6-604- 3213	13.0	0.15	0.4	1.13	1.17	1.21	1.23	1.30	0.56	0.78	0.97	1.11	1.38	1.56	33.0		
1-M6M6-604- 3214	14.0	0.15	0.4	1.13	1.17	1.21	1.23	1.30	0.59	0.83	1.02	1.18	1.46	1.68	35.6		
1-M6M6-604- 3215	15.0	0.15	0.4	1.13	1.17	1.21	1.23	1.30	0.62	0.88	1.08	1.25	1.54	1.80	38.1		
1-M6M6-604- 3216	16.0	0.15	0.5	1.13	1.17	1.21	1.23	1.30	0.66	0.92	1.14	1.32	1.63	1.92	40.6		
1-M6M6-604- 3217	17.0	0.15	0.5	1.13	1.17	1.21	1.23	1.30	0.69	0.97	1.20	1.38	1.71	2.04	43.2		
1-M6M6-604- 3218	18.0	0.15	0.5	1.13	1.17	1.21	1.23	1.30	0.72	1.02	1.26	1.45	1.79	2.16	45.7		
1-M6M6-604- 3219	19.0	0.15	0.5	1.13	1.17	1.21	1.23	1.30	0.76	1.06	1.31	1.52	1.87	2.28	48.3		
1-M6M6-604- 3220	20.0	0.15	0.5	1.13	1.17	1.21	1.23	1.30	0.79	1.11	1.37	1.59	1.96	2.40	50.8		
1-M6M6-604- 3221	21.0	0.15	0.5	1.13	1.17	1.21	1.23	1.30	0.82	1.16	1.43	1.65	2.04	2.52	53.3		
1-M6M6-604- 3222	22.0	0.15	0.6	1.13	1.17	1.21	1.23	1.30	0.85	1.21	1.49	1.72	2.12	2.64	55.9		
1-M6M6-604- 3223	23.0	0.15	0.6	1.13	1.17	1.21	1.23	1.30	0.89	1.25	1.55	1.79	2.21	2.76	58.4		
1-M6M6-604- 3224	24.0	0.20	0.6	1.13	1.17	1.21	1.23	1.30	0.92	1.30	1.60	1.85	2.29	2.88	61.0		
1-M6M6-604- 3227	27.0	0.20	0.6	1.13	1.17	1.21	1.23	1.30	1.02	1.44	1.78	2.06	2.54	3.24	68.6		
1-M6M6-604- 3230	30.0	0.20	0.7	1.13	1.17	1.21	1.23	1.30	1.12	1.58	1.95	2.26	2.79	3.60	76.2		
1-M6M6-604- 3233	33.0	0.20	0.7	1.13	1.17	1.21	1.23	1.30	1.22	1.72	2.13	2.46	3.04	3.95	83.8		
1-M6M6-604- 3236	36.0	0.25	0.8	1.13	1.17	1.21	1.23	1.30	1.32	1.86	2.30	2.66	3.29	4.31	91.4		
1-M6M6-604- 3239	39.0	0.25	0.8	1.13	1.17	1.21	1.23	1.30	1.41	2.00	2.47	2.86	3.54	4.67	99.1		
1-M6M6-604- 3242	42.0	0.25	0.8	1.13	1.17	1.21	1.23	1.30	1.51	2.15	2.65	3.07	3.79	5.03	106.7		
1-M6M6-604- 3245	45.0	0.25	0.9	1.13	1.17	1.21	1.23	1.30	1.61	2.29	2.82	3.27	4.04	5.39	114.3		
1-M6M6-604- 3248	48.0	0.30	0.9	1.13	1.17	1.21	1.23	1.30	1.71	2.43	2.99	3.47	4.29	5.75	121.9		

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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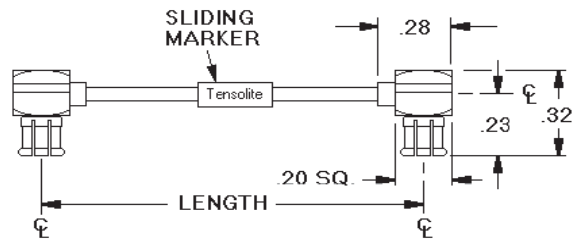
Handformable,
Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.40 pf/FOOT
RELATIVE SHIELDING:	70.7 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	-100 %
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:	500 WATTS (INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)
F (IN GHz) ----->	1 2 4 6
MAX. CW WATTS ---->	32 22 15 13

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.047 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	20 POUNDS MIN.
TEMPERATURE RANGE:	-65 / +105 DEGREES C
SMA MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	CECC 2220

MCX MALE RT.< TO MCX MALE RT.< ON 604 SEMI-FLEX® CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
OUTER CONDUCTOR:	HIGH STRENGTH WIRE BRAID	TIN FILLED
MARKER:	MIL-I-23053/5	GRAY
BOOTS:	NONE	BLACK
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
MCX BODY:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
CONTACTS:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SMA GASKET:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						S21 AND S12 CHARACTERISTICS MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						NOM DELAY nS	LENGTH CM
	LENGTH INCHES	+ / - LENGTH	WEIGHT OUNCES	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
1-M7M7-604- 3202	2.0	0.05	0.2	1.15	1.20	1.25	1.30	1.35	0.18	0.24	0.29	0.33	0.41	0.24	5.1		
1-M7M7-604- 3203	3.0	0.05	0.2	1.15	1.20	1.25	1.30	1.35	0.21	0.28	0.35	0.40	0.50	0.36	7.6		
1-M7M7-604- 3204	4.0	0.05	0.2	1.15	1.20	1.25	1.30	1.35	0.24	0.33	0.41	0.47	0.58	0.48	10.2		
1-M7M7-604- 3205	5.0	0.05	0.3	1.15	1.20	1.25	1.30	1.35	0.27	0.38	0.47	0.54	0.66	0.60	12.7		
1-M7M7-604- 3206	6.0	0.05	0.3	1.15	1.20	1.25	1.30	1.35	0.31	0.43	0.53	0.60	0.74	0.72	15.2		
1-M7M7-604- 3207	7.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.34	0.47	0.58	0.67	0.83	0.84	17.8		
1-M7M7-604- 3208	8.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.37	0.52	0.64	0.74	0.91	0.96	20.3		
1-M7M7-604- 3209	9.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.41	0.57	0.70	0.81	0.99	1.08	22.9		
1-M7M7-604- 3210	10.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.44	0.61	0.76	0.87	1.08	1.20	25.4		
1-M7M7-604- 3211	11.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.47	0.66	0.82	0.94	1.16	1.32	27.9		
1-M7M7-604- 3212	12.0	0.10	0.3	1.15	1.20	1.25	1.30	1.35	0.51	0.71	0.87	1.01	1.24	1.44	30.5		
1-M7M7-604- 3213	13.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.54	0.75	0.93	1.07	1.33	1.56	33.0		
1-M7M7-604- 3214	14.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.57	0.80	0.99	1.14	1.41	1.68	35.6		
1-M7M7-604- 3215	15.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.60	0.85	1.05	1.21	1.49	1.80	38.1		
1-M7M7-604- 3216	16.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.64	0.90	1.11	1.28	1.58	1.92	40.6		
1-M7M7-604- 3217	17.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.67	0.94	1.16	1.34	1.66	2.04	43.2		
1-M7M7-604- 3218	18.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.70	0.99	1.22	1.41	1.74	2.16	45.7		
1-M7M7-604- 3219	19.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.74	1.04	1.28	1.48	1.83	2.28	48.3		
1-M7M7-604- 3220	20.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.77	1.08	1.34	1.55	1.91	2.40	50.8		
1-M7M7-604- 3221	21.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.80	1.13	1.40	1.61	1.99	2.52	53.3		
1-M7M7-604- 3222	22.0	0.15	0.3	1.15	1.20	1.25	1.30	1.35	0.83	1.18	1.45	1.68	2.08	2.64	55.9		
1-M7M7-604- 3223	23.0	0.15	0.4	1.15	1.20	1.25	1.30	1.35	0.87	1.22	1.51	1.75	2.16	2.76	58.4		
1-M7M7-604- 3224	24.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	0.90	1.27	1.57	1.81	2.24	2.88	61.0		
1-M7M7-604- 3227	27.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	1.00	1.41	1.74	2.02	2.49	3.24	68.6		
1-M7M7-604- 3230	30.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	1.10	1.55	1.92	2.22	2.74	3.60	76.2		
1-M7M7-604- 3233	33.0	0.20	0.4	1.15	1.20	1.25	1.30	1.35	1.20	1.69	2.09	2.42	2.99	3.95	83.8		
1-M7M7-604- 3236	36.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	1.30	1.83	2.26	2.62	3.24	4.31	91.4		
1-M7M7-604- 3239	39.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	1.39	1.98	2.44	2.82	3.49	4.67	99.1		
1-M7M7-604- 3242	42.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	1.49	2.12	2.61	3.03	3.74	5.03	106.7		
1-M7M7-604- 3245	45.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	1.59	2.26	2.79	3.23	3.99	5.39	114.3		
1-M7M7-604- 3248	48.0	0.30	0.5	1.15	1.20	1.25	1.30	1.35	1.69	2.40	2.96	3.43	4.24	5.75	121.9		

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.

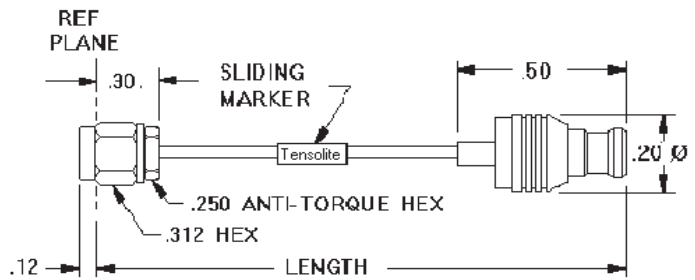
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Handformable,
Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

SMA MALE TO MCX MALE ON 600 SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.4 pF/FOOT
RELATIVE SHIELDING:	> -100 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	0.5 1 2 4 6
MAX. CW WATTS ---->	114 79 54 37 30



MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.088 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	30 POUNDS MIN.
TEMPERATURE RANGE:	-55/+105 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 CECC 2220

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
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
MCX BODY:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
SMA BODY:	ASTM-A-582, 303 STAINLESS STEEL	QQ-9-35, PASSIVATED
SMA NUT:	ASTM-A-582, 303 STAINLESS STEEL	QQ-P-35, PASSIVATED
SMA CONTACT:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SMA GASKET:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS						S21 AND S12 CHARACTERISTICS						NOM DELAY nS	LENGTH CM
	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 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
1-36M6-600- 5202	2.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.15	0.20	0.25	0.28	0.35	0.24	5.1		
1-36M6-600- 5203	3.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.17	0.23	0.28	0.32	0.40	0.36	7.6		
1-36M6-600- 5204	4.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.19	0.25	0.32	0.36	0.45	0.48	10.2		
1-36M6-600- 5205	5.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.21	0.28	0.35	0.40	0.50	0.60	12.7		
1-36M6-600- 5206	6.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.22	0.31	0.39	0.44	0.55	0.72	15.2		
1-36M6-600- 5207	7.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.24	0.34	0.42	0.48	0.60	0.84	17.8		
1-36M6-600- 5208	8.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.26	0.36	0.45	0.52	0.65	0.96	20.3		
1-36M6-600- 5209	9.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.28	0.39	0.49	0.56	0.70	1.08	22.9		
1-36M6-600- 5210	10.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.30	0.42	0.52	0.60	0.75	1.20	25.4		
1-36M6-600- 5211	11.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.32	0.45	0.56	0.65	0.81	1.32	27.9		
1-36M6-600- 5212	12.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.34	0.47	0.59	0.69	0.86	1.44	30.5		
1-36M6-600- 5213	13.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.36	0.50	0.63	0.73	0.91	1.56	33.0		
1-36M6-600- 5214	14.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.38	0.53	0.66	0.77	0.96	1.68	35.6		
1-36M6-600- 5215	15.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.40	0.56	0.70	0.81	1.01	1.80	38.1		
1-36M6-600- 5216	16.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.41	0.59	0.73	0.85	1.06	1.92	40.6		
1-36M6-600- 5217	17.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.43	0.61	0.76	0.89	1.11	2.04	43.2		
1-36M6-600- 5218	18.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.45	0.64	0.80	0.93	1.16	2.16	45.7		
1-36M6-600- 5219	19.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.47	0.67	0.83	0.97	1.21	2.28	48.3		
1-36M6-600- 5220	20.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.49	0.70	0.87	1.01	1.26	2.40	50.8		
1-36M6-600- 5221	21.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.51	0.72	0.90	1.05	1.31	2.52	53.3		
1-36M6-600- 5222	22.0	0.25	0.6	1.13	1.17	1.21	1.23	1.30	0.53	0.75	0.94	1.09	1.37	2.64	55.9		
1-36M6-600- 5223	23.0	0.25	0.6	1.13	1.17	1.21	1.23	1.30	0.55	0.78	0.97	1.13	1.42	2.76	58.4		
1-36M6-600- 5224	24.0	0.24	0.6	1.13	1.17	1.21	1.23	1.30	0.57	0.81	1.01	1.17	1.47	2.88	61.0		
1-36M6-600- 5227	27.0	0.27	0.6	1.13	1.17	1.21	1.23	1.30	0.62	0.89	1.11	1.29	1.62	3.24	68.6		
1-36M6-600- 5230	30.0	0.30	0.7	1.13	1.17	1.21	1.23	1.30	0.68	0.97	1.21	1.41	1.77	3.60	76.2		
1-36M6-600- 5233	33.0	0.33	0.7	1.13	1.17	1.21	1.23	1.30	0.74	1.05	1.32	1.54	1.92	3.95	83.8		
1-36M6-600- 5236	36.0	0.36	0.8	1.13	1.17	1.21	1.23	1.30	0.80	1.14	1.42	1.66	2.08	4.31	91.4		
1-36M6-600- 5239	39.0	0.39	0.8	1.13	1.17	1.21	1.23	1.30	0.85	1.22	1.52	1.78	2.23	4.67	99.1		
1-36M6-600- 5242	42.0	0.42	0.8	1.13	1.17	1.21	1.23	1.30	0.91	1.30	1.63	1.90	2.38	5.03	106.7		
1-36M6-600- 5245	45.0	0.45	0.9	1.13	1.17	1.21	1.23	1.30	0.97	1.39	1.73	2.02	2.54	5.39	114.3		
1-36M6-600- 5248	48.0	0.48	0.9	1.13	1.17	1.21	1.23	1.30	1.02	1.47	1.83	2.14	2.69	5.75	121.9		

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.
 VISIT OUR WEB SITE AT <http://www.tensolite.com>

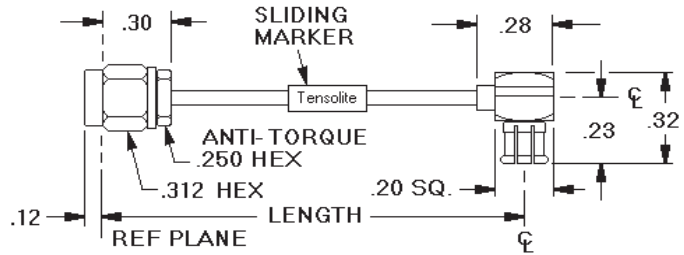
Handformable,
Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.4 pF/FOOT
RELATIVE SHIELDING:	> -100 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	0.5 1 2 4 6
MAX. CW WATTS ---->	114 79 54 37 30

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.088 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	30 POUNDS MIN.
TEMPERATURE RANGE:	-55/+105 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 CECC 2220

SMA MALE TO MCX MALE RT.< ON 600 SEMI-FLEX® CABLE.



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
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
MCX BODY:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
SMA BODY:	ASTM-A-582, 303 STAINLESS STEEL	QQ-9-35, PASSIVATED
SMA NUT:	ASTM-A-582, 303 STAINLESS STEEL	QQ-P-35, PASSIVATED
SMA CONTACT:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SMA GASKET:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS LENGTH INCHES +/- LENGTH WEIGHT OUNCES			S11 AND S22 CHARACTERISTICS MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						S21 AND S12 CHARACTERISTICS MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						NOM DELAY nS	LENGTH CM
				UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
				1-36M7-600- 5202	2.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.15	0.20	0.25		
1-36M7-600- 5203	3.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.17	0.23	0.28	0.32	0.40	0.36	7.6		
1-36M7-600- 5204	4.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.19	0.25	0.32	0.36	0.45	0.48	10.2		
1-36M7-600- 5205	5.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.21	0.28	0.35	0.40	0.50	0.60	12.7		
1-36M7-600- 5206	6.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.22	0.31	0.39	0.44	0.55	0.72	15.2		
1-36M7-600- 5207	7.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.24	0.34	0.42	0.48	0.60	0.84	17.8		
1-36M7-600- 5208	8.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.26	0.36	0.45	0.52	0.65	0.96	20.3		
1-36M7-600- 5209	9.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.28	0.39	0.49	0.56	0.70	1.08	22.9		
1-36M7-600- 5210	10.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.30	0.42	0.52	0.60	0.75	1.20	25.4		
1-36M7-600- 5211	11.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.32	0.45	0.56	0.65	0.81	1.32	27.9		
1-36M7-600- 5212	12.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.34	0.47	0.59	0.69	0.86	1.44	30.5		
1-36M7-600- 5213	13.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.36	0.50	0.63	0.73	0.91	1.56	33.0		
1-36M7-600- 5214	14.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.38	0.53	0.66	0.77	0.96	1.68	35.6		
1-36M7-600- 5215	15.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.40	0.56	0.70	0.81	1.01	1.80	38.1		
1-36M7-600- 5216	16.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.41	0.59	0.73	0.85	1.06	1.92	40.6		
1-36M7-600- 5217	17.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.43	0.61	0.76	0.89	1.11	2.04	43.2		
1-36M7-600- 5218	18.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.45	0.64	0.80	0.93	1.16	2.16	45.7		
1-36M7-600- 5219	19.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.47	0.67	0.83	0.97	1.21	2.28	48.3		
1-36M7-600- 5220	20.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.49	0.70	0.87	1.01	1.26	2.40	50.8		
1-36M7-600- 5221	21.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.51	0.72	0.90	1.05	1.31	2.52	53.3		
1-36M7-600- 5222	22.0	0.25	0.6	1.13	1.17	1.21	1.23	1.30	0.53	0.75	0.94	1.09	1.37	2.64	55.9		
1-36M7-600- 5223	23.0	0.25	0.6	1.13	1.17	1.21	1.23	1.30	0.55	0.78	0.97	1.13	1.42	2.76	58.4		
1-36M7-600- 5224	24.0	0.24	0.6	1.13	1.17	1.21	1.23	1.30	0.57	0.81	1.01	1.17	1.47	2.88	61.0		
1-36M7-600- 5227	27.0	0.27	0.6	1.13	1.17	1.21	1.23	1.30	0.62	0.89	1.11	1.29	1.62	3.24	68.6		
1-36M7-600- 5230	30.0	0.30	0.7	1.13	1.17	1.21	1.23	1.30	0.68	0.97	1.21	1.41	1.77	3.60	76.2		
1-36M7-600- 5233	33.0	0.33	0.7	1.13	1.17	1.21	1.23	1.30	0.74	1.05	1.32	1.54	1.92	3.95	83.8		
1-36M7-600- 5236	36.0	0.36	0.8	1.13	1.17	1.21	1.23	1.30	0.80	1.14	1.42	1.66	2.08	4.31	91.4		
1-36M7-600- 5239	39.0	0.39	0.8	1.13	1.17	1.21	1.23	1.30	0.85	1.22	1.52	1.78	2.23	4.67	99.1		
1-36M7-600- 5242	42.0	0.42	0.8	1.13	1.17	1.21	1.23	1.30	0.91	1.30	1.63	1.90	2.38	5.03	106.7		
1-36M7-600- 5245	45.0	0.45	0.9	1.13	1.17	1.21	1.23	1.30	0.97	1.39	1.73	2.02	2.54	5.39	114.3		
1-36M7-600- 5248	48.0	0.48	0.9	1.13	1.17	1.21	1.23	1.30	1.02	1.47	1.83	2.14	2.69	5.75	121.9		

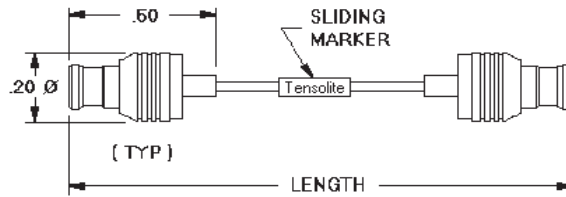
MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM PLUS MEASURING SYSTEM UNCERTAINTY.
 NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.
 PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.
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TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

MCX MALE TO MCX MALE ON 600 SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.4 pF/FOOT
RELATIVE SHIELDING:	> -100 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHZ) ----->	0.5 1 2 4 6
MAX. CW WATTS ---->	114 79 54 37 30

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.088 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	30 POUNDS MIN.
TEMPERATURE RANGE:	-55/+105 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	CECC 2220



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
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
BODIES:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
CONTACTS:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS MAXIMUM VSWR :1 AT FREQUENCY (IN GHZ.)						S21 AND S12 CHARACTERISTICS MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHZ.)						NOM DELAY nS	LENGTH CM
	LENGTH INCHES	+ / - LENGTH	WEIGHT OUNCES	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6				
1-M6M6-600- 3202	2.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.15	0.20	0.25	0.28	0.35	0.24	5.1		
1-M6M6-600- 3203	3.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.17	0.23	0.28	0.32	0.40	0.36	7.6		
1-M6M6-600- 3204	4.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.19	0.25	0.32	0.36	0.45	0.48	10.2		
1-M6M6-600- 3205	5.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.21	0.28	0.35	0.40	0.50	0.60	12.7		
1-M6M6-600- 3206	6.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.22	0.31	0.39	0.44	0.55	0.72	15.2		
1-M6M6-600- 3207	7.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.24	0.34	0.42	0.48	0.60	0.84	17.8		
1-M6M6-600- 3208	8.0	0.25	0.3	1.13	1.17	1.21	1.23	1.30	0.26	0.36	0.45	0.52	0.65	0.96	20.3		
1-M6M6-600- 3209	9.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.28	0.39	0.49	0.56	0.70	1.08	22.9		
1-M6M6-600- 3210	10.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.30	0.42	0.52	0.60	0.75	1.20	25.4		
1-M6M6-600- 3211	11.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.32	0.45	0.56	0.65	0.81	1.32	27.9		
1-M6M6-600- 3212	12.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.34	0.47	0.59	0.69	0.86	1.44	30.5		
1-M6M6-600- 3213	13.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.36	0.50	0.63	0.73	0.91	1.56	33.0		
1-M6M6-600- 3214	14.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.38	0.53	0.66	0.77	0.96	1.68	35.6		
1-M6M6-600- 3215	15.0	0.25	0.4	1.13	1.17	1.21	1.23	1.30	0.40	0.56	0.70	0.81	1.01	1.80	38.1		
1-M6M6-600- 3216	16.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.41	0.59	0.73	0.85	1.06	1.92	40.6		
1-M6M6-600- 3217	17.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.43	0.61	0.76	0.89	1.11	2.04	43.2		
1-M6M6-600- 3218	18.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.45	0.64	0.80	0.93	1.16	2.16	45.7		
1-M6M6-600- 3219	19.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.47	0.67	0.83	0.97	1.21	2.28	48.3		
1-M6M6-600- 3220	20.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.49	0.70	0.87	1.01	1.26	2.40	50.8		
1-M6M6-600- 3221	21.0	0.25	0.5	1.13	1.17	1.21	1.23	1.30	0.51	0.72	0.90	1.05	1.31	2.52	53.3		
1-M6M6-600- 3222	22.0	0.25	0.6	1.13	1.17	1.21	1.23	1.30	0.53	0.75	0.94	1.09	1.37	2.64	55.9		
1-M6M6-600- 3223	23.0	0.25	0.6	1.13	1.17	1.21	1.23	1.30	0.55	0.78	0.97	1.13	1.42	2.76	58.4		
1-M6M6-600- 3224	24.0	0.24	0.6	1.13	1.17	1.21	1.23	1.30	0.57	0.81	1.01	1.17	1.47	2.88	61.0		
1-M6M6-600- 3227	27.0	0.27	0.6	1.13	1.17	1.21	1.23	1.30	0.62	0.89	1.11	1.29	1.62	3.24	68.6		
1-M6M6-600- 3230	30.0	0.30	0.7	1.13	1.17	1.21	1.23	1.30	0.68	0.97	1.21	1.41	1.77	3.60	76.2		
1-M6M6-600- 3233	33.0	0.33	0.7	1.13	1.17	1.21	1.23	1.30	0.74	1.05	1.32	1.54	1.92	3.95	83.8		
1-M6M6-600- 3236	36.0	0.36	0.8	1.13	1.17	1.21	1.23	1.30	0.80	1.14	1.42	1.66	2.08	4.31	91.4		
1-M6M6-600- 3239	39.0	0.39	0.8	1.13	1.17	1.21	1.23	1.30	0.85	1.22	1.52	1.78	2.23	4.67	99.1		
1-M6M6-600- 3242	42.0	0.42	0.8	1.13	1.17	1.21	1.23	1.30	0.91	1.30	1.63	1.90	2.38	5.03	106.7		
1-M6M6-600- 3245	45.0	0.45	0.9	1.13	1.17	1.21	1.23	1.30	0.97	1.39	1.73	2.02	2.54	5.39	114.3		
1-M6M6-600- 3248	48.0	0.48	0.9	1.13	1.17	1.21	1.23	1.30	1.02	1.47	1.83	2.14	2.69	5.75	121.9		

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.

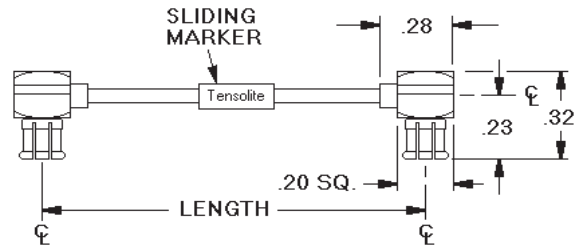
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Handformable,
Semi-Flex

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

MCX MALE RT.< TO MCX MALE RT.< ON 600 SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.4 pF/FOOT
RELATIVE SHIELDING:	> -100 db MIN. (1 FT)
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %
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:	500 WATTS
(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)	
F (IN GHz) ----->	0.5 1 2 4 6
MAX. CW WATTS ---->	114 79 54 37 30



MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.088 INCHES
MIN. BEND RADIUS:	0.13 INCHES
PREFERRED BEND RADIUS:	0.38 INCHES
CONNECTOR RETENTION:	30 POUNDS MIN.
TEMPERATURE RANGE:	-55/+105 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 CECC 2220

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
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
BODIES:	ASTM-B-16, BRASS	MIL-G-45204, GOLD PLATED
CONTACTS:	ASTM-B-196, BeCu	MIL-G-45204, GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS			S11 AND S22 CHARACTERISTICS					S21 AND S12 CHARACTERISTICS					NOM DELAY nS	LENGTH CM
	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 3	3 TO 4	4 TO 6	UP TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 6		
1-M7M7-600- 3202	2.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.15	0.20	0.25	0.28	0.35	0.24	5.1
1-M7M7-600- 3203	3.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.17	0.23	0.28	0.32	0.40	0.36	7.6
1-M7M7-600- 3204	4.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.19	0.25	0.32	0.36	0.45	0.48	10.2
1-M7M7-600- 3205	5.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.21	0.28	0.35	0.40	0.50	0.60	12.7
1-M7M7-600- 3206	6.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.22	0.31	0.39	0.44	0.55	0.72	15.2
1-M7M7-600- 3207	7.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.24	0.34	0.42	0.48	0.60	0.84	17.8
1-M7M7-600- 3208	8.0	0.25	0.3	1.15	1.20	1.25	1.30	1.35	0.26	0.36	0.45	0.52	0.65	0.96	20.3
1-M7M7-600- 3209	9.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.28	0.39	0.49	0.56	0.70	1.08	22.9
1-M7M7-600- 3210	10.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.30	0.42	0.52	0.60	0.75	1.20	25.4
1-M7M7-600- 3211	11.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.32	0.45	0.56	0.65	0.81	1.32	27.9
1-M7M7-600- 3212	12.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.34	0.47	0.59	0.69	0.86	1.44	30.5
1-M7M7-600- 3213	13.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.36	0.50	0.63	0.73	0.91	1.56	33.0
1-M7M7-600- 3214	14.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.38	0.53	0.66	0.77	0.96	1.68	35.6
1-M7M7-600- 3215	15.0	0.25	0.4	1.15	1.20	1.25	1.30	1.35	0.40	0.56	0.70	0.81	1.01	1.80	38.1
1-M7M7-600- 3216	16.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	0.41	0.59	0.73	0.85	1.06	1.92	40.6
1-M7M7-600- 3217	17.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	0.43	0.61	0.76	0.89	1.11	2.04	43.2
1-M7M7-600- 3218	18.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	0.45	0.64	0.80	0.93	1.16	2.16	45.7
1-M7M7-600- 3219	19.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	0.47	0.67	0.83	0.97	1.21	2.28	48.3
1-M7M7-600- 3220	20.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	0.49	0.70	0.87	1.01	1.26	2.40	50.8
1-M7M7-600- 3221	21.0	0.25	0.5	1.15	1.20	1.25	1.30	1.35	0.51	0.72	0.90	1.05	1.31	2.52	53.3
1-M7M7-600- 3222	22.0	0.25	0.6	1.15	1.20	1.25	1.30	1.35	0.53	0.75	0.94	1.09	1.37	2.64	55.9
1-M7M7-600- 3223	23.0	0.25	0.6	1.15	1.20	1.25	1.30	1.35	0.55	0.78	0.97	1.13	1.42	2.76	58.4
1-M7M7-600- 3224	24.0	0.24	0.6	1.15	1.20	1.25	1.30	1.35	0.57	0.81	1.01	1.17	1.47	2.88	61.0
1-M7M7-600- 3227	27.0	0.27	0.6	1.15	1.20	1.25	1.30	1.35	0.62	0.89	1.11	1.29	1.62	3.24	68.6
1-M7M7-600- 3230	30.0	0.30	0.7	1.15	1.20	1.25	1.30	1.35	0.68	0.97	1.21	1.41	1.77	3.60	76.2
1-M7M7-600- 3233	33.0	0.33	0.7	1.15	1.20	1.25	1.30	1.35	0.74	1.05	1.32	1.54	1.92	3.95	83.8
1-M7M7-600- 3236	36.0	0.36	0.8	1.15	1.20	1.25	1.30	1.35	0.80	1.14	1.42	1.66	2.08	4.31	91.4
1-M7M7-600- 3239	39.0	0.39	0.8	1.15	1.20	1.25	1.30	1.35	0.85	1.22	1.52	1.78	2.23	4.67	99.1
1-M7M7-600- 3242	42.0	0.42	0.8	1.15	1.20	1.25	1.30	1.35	0.91	1.30	1.63	1.90	2.38	5.03	106.7
1-M7M7-600- 3245	45.0	0.45	0.9	1.15	1.20	1.25	1.30	1.35	0.97	1.39	1.73	2.02	2.54	5.39	114.3
1-M7M7-600- 3248	48.0	0.48	0.9	1.15	1.20	1.25	1.30	1.35	1.02	1.47	1.83	2.14	2.69	5.75	121.9

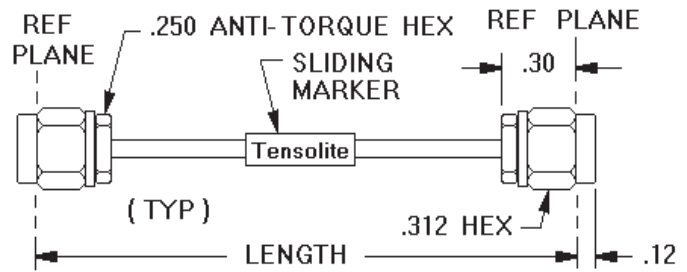
MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM PLUS MEASURING SYSTEM UNCERTAINTY.
 NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 73 DEG. F, SEA LEVEL AND 20 TO 80% RELATIVE HUMIDITY.
 PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.
 SEMI-FLEX IS A REGISTERED TRADEMARK OF TENSOLITE CO.
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TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

SMA MALE TO SMA MALE ON 601 SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.4 pf/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %
RELATIVE SHIELDING:	-100.0 db MIN.
INSULATION RESISTANCE:	1000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.
ELECTRICAL DELAY NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY NOMINAL:	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 --->	200 136 91 71 46 36
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:	0.145 INCHES
MIN. BEND RADIUS:	0.19 INCHES
PREFERRED BEND RADIUS:	0.50 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-65 / +105 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACE:	MIL-STD-348 PAGE 310.3

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	HIGH STRENGTH WIRE BRAID	TIN FILLED
MARKER:	MIL-I-23053/5	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
INSULATORS:	ASTM-D-1710, 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	

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ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS				S11 AND S22 CHARACTERISTICS							S12 AND S21 CHARACTERISTICS							LENGTH CM
	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				
1-3636-601- 5202	D	2.00	0.05	0.2	1.06	1.10	1.14	1.17	1.20	1.30	0.08	0.10	0.15	0.17	0.25	0.33	0.24	5.08	
1-3636-601- 5203	D	3.00	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	
1-3636-601- 5204	D	4.00	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	
1-3636-601- 5205	D	5.00	0.10	0.3	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	
1-3636-601- 5206	D	6.00	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	
1-3636-601- 5207		7.00	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	
1-3636-601- 5208	D	8.00	0.10	0.4	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	
1-3636-601- 5209		9.00	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	
1-3636-601- 5210		10.00	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	
1-3636-601- 5211		11.00	0.15	0.5	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	
1-3636-601- 5212	D	12.00	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	
1-3636-601- 5213		13.00	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	
1-3636-601- 5214		14.00	0.15	0.6	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	
1-3636-601- 5215		15.00	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	
1-3636-601- 5216		16.00	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	
1-3636-601- 5217		17.00	0.15	0.7	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	
1-3636-601- 5218	D	18.00	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	
1-3636-601- 5219		19.00	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	
1-3636-601- 5220		20.00	0.15	0.8	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	
1-3636-601- 5221		21.00	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	
1-3636-601- 5222		22.00	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	
1-3636-601- 5223		23.00	0.15	0.9	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	
1-3636-601- 5224	D	24.00	0.15	0.9	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	
1-3636-601- 5225		25.00	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	
1-3636-601- 5226		26.00	0.15	1.0	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	
1-3636-601- 5227		27.00	0.15	1.0	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	
1-3636-601- 5228		28.00	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	
1-3636-601- 5230		30.00	0.15	1.1	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	
1-3636-601- 5232		32.00	0.15	1.2	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	
1-3636-601- 5233		33.00	0.15	1.2	1.06	1.10	1.14	1.17	1.20	1.30	0.42	0.60	0.89	1.12	1.70	2.21	3.95	83.8	
1-3636-601- 5236		36.00	0.20	1.3	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	
1-3636-601- 5239		39.00	0.20	1.4	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	
1-3636-601- 5242		42.00	0.20	1.5	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	107	
1-3636-601- 5245		45.00	0.20	1.6	1.06	1.10	1.14	1.17	1.20	1.30	0.55	0.79	1.17	1.48	2.26	2.94	5.39	114	
1-3636-601- 5247		47.00	0.20	1.7	1.06	1.10	1.14	1.17	1.20	1.30	0.57	0.82	1.22	1.54	2.35	3.07	5.63	119	
1-3636-601- 5248		48.00	0.25	1.7	1.06	1.10	1.14	1.17	1.20	1.30	0.58	0.84	1.24	1.57	2.40	3.13	5.75	122	

D= DISTRIBUTOR ITEM MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM INCLUDING 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.

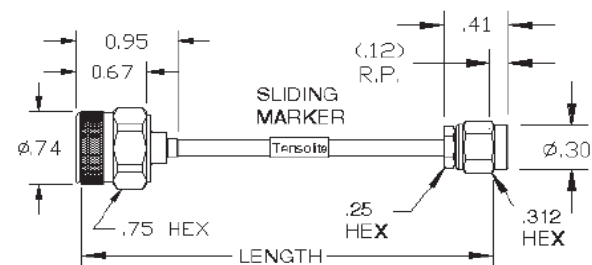
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TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

TYPE N MALE TO SMA MALE ON 601 SEMI-FLEX® CABLE.

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	29.4 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 --->	200 136 91 71 46 36
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:	0.145 INCHES
MIN. BEND RADIUS:	0.19 INCHES
PREFERRED BEND RADIUS:	0.50 INCHES
CONNECTOR RETENTION:	50 POUNDS MIN.
TEMPERATURE RANGE:	-65 to +105 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 N WITH SOLID OUTER

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	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-B-196, BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM-D-1710, PTFE	NONE
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
TYPE N BODY:	ASTM-B-36, BRASS	QQ-S-365 SILVER PLATED
TYPE N NUT:	ASTM-B-36, BRASS	QQ-N-290 NICKEL PLATED
AVAILABLE GASKET:	ZZ-R-765, SILICON RUBBER	RED
THIS 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.		
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

Handformable,
Semi-Flex

ITEM INFORMATION PART NUMBER	MECHANICAL CHARACTERISTICS LENGTH INCHES	+		WEIGHT OUNCES	S11 AND S22 CHARACTERISTICS MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.)						S12 AND S21 CHARACTERISTICS MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.)						NOM DELAY ns	LENGTH CM
		LENGTH	UNCI		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		
1-1836-601-5204	D 4.0	0.05	1.3	1.10	1.15	1.20	1.25	1.30	1.35	0.12	0.16	0.24	0.28	0.41	0.54	0.48	10.2	
1-1836-601-5248	D 48.0	0.20	2.7	1.15	1.20	1.25	1.30	1.35	1.45	0.60	0.87	1.28	1.62	2.47	3.22	5.75	121.9	

D = DISTRIBUTOR ITEM MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM INCLUDING 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.

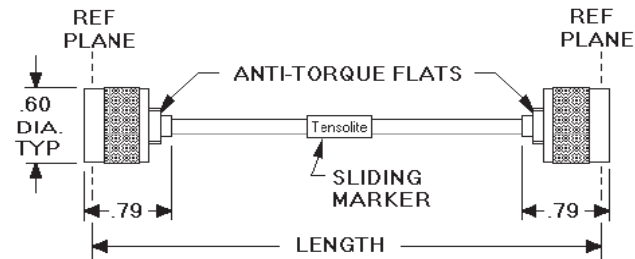
SEMI-FLEX IS A REGISTERED TRADEMARK OF TENSOLITE CO.
VISIT OUR WEB SITE AT <http://www.tensolite.com>

TENSOLITE CABLE ASSEMBLY TECHNICAL DATA

ELECTRICAL SPECIFICATIONS table with columns for impedance, capacitance, velocity of propagation, etc.

MECHANICAL SPECIFICATIONS table with columns for cable max. diameter, min. bend radius, etc.

TNC MALE TO TNC MALE ON 601 SEMI-FLEX® CABLE.



MATERIALS AND FINISHES table listing descriptions, materials, and finishes for cable jacket, marker, solder, etc.

Handformable, Semi-Flex

Main table with columns: ITEM INFORMATION, MECHANICAL CHARACTERISTICS, S11 AND S22 CHARACTERISTICS, S21 AND S12 CHARACTERISTICS, etc.

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...

