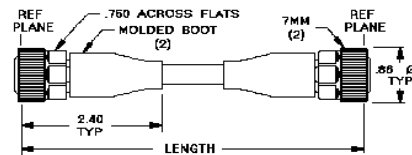
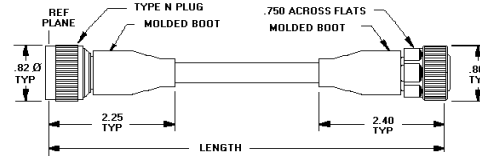


TS1818 CONFIGURATION

TS7878 CONFIGURATION
NOTE: 2 CAUTION MARKERS (1 EACH END)

TS1878 CONFIGURATION

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:	50 OHMS					
CAPACITANCE NOMINAL:	28.7 pF/FOOT					
VELOCITY OF PROPAGATION, NOMINAL:	70.7 %					
RELATIVE SHIELDING PARALLEL TOUCHING 24 IN:	-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	18
MAX. CW WATTS	213	145	97	76	49	38
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	0.03	0.05
CABLE FORMED AND STRAIGHTENED 90 DEGREES ON A 4" RADIUS						
Cables are manufactured as matched sets or matched to laboratory standards.						
Cables maintain network analyzer compatible characteristics during product life when formed up to 180 degrees at a 4 inch (2.5 inch for TS1818-07) or greater radius.						

MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	PVC	GRAY
MARKING:	-	BLACK
BOOTS:	RUBBER COMPOUND	GRAY
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
N INSULATORS:	ASTM D1457 PTFE	NONE
7 MM INSULATORS:	PTFE COMPOSITE	NONE
N CONNECTOR BODY:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
7 MM CONNECTOR BODY:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
NUTS:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
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	

MECHANICAL SPECIFICATIONS:	
CABLE MAX. DIAMETER:	0.220 INCHES
MIN. ONE TIME BEND RADIUS:	1.17 INCHES
FLEXED BEND RADIUS:	3.90 INCHES
CONNECTOR RETENTION:	100 POUNDS MIN.
TEMPERATURE RANGE:	-55 TO +85 DEGREES C
MATING TORQUE:	7-10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 (N) IEEE 287 (7MM)

OTHER AVAILABLE CONFIGURATIONS:				
CONN. 1	CONN. 2	LENGTH	PART NUMBER	PRODUCT SPECIFICATIONS
N MALE	7 MM	12	TS1878-12	SEE TS1818-12 ABOVE
N MALE	7MM	24	TS1878-24	SEE TS1818-24 ABOVE
N MALE	7 MM	34	TS1878-34	SEE TS1818-34 ABOVE
7MM	7MM	34	TS7878-34	SEE TS1818-34 ABOVE

PART NUMBER	CONN.	LENGTH INCHES	+ - LENGTH	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 3	3 TO 6	6 TO 12 REF.	12 TO 18 REF.	UP TO 1	1 TO 2	2 TO 3	3 TO 6	6 TO 12 REF.	12 TO 18 REF.					
TS1818- 07	N	7.5	0.38	4.3	1.07	1.10	1.13	1.18	1.25			0.16	0.21	0.27	0.38	0.56		19.1			
TS1818- 07S	N	INCH CABLES																			
TS1818- 12	N	12.0	0.60	4.6	1.07	1.10	1.13	1.18	1.25			0.20	0.28	0.35	0.50	0.76		30.5			
TS1818- 24	N	24.0	1.20	5.3	1.07	1.10	1.13	1.18	1.25			0.32	0.46	0.58	0.85	1.29		61.0			
TS1818- 24V	N	24	1.20	5.3	1.06	1.06	1.06					0.32	0.46	0.58	0.85	1.29		61.0			
TS1818- 34	N	34.0	1.70	5.8	1.07	1.10	1.13	1.17	1.25			0.43	0.61	0.77	1.13	1.72		86.4			
TS1818- 36	N	36.0	1.80	5.9	1.07	1.10	1.13	1.18	1.25			0.45	0.64	0.81	1.19	1.81		91.4			
TS1818- STR	SET	AND 1 - 34 INCH																			
TS1818- 18	7MM	18.0	0.90	4.9	1.07	1.09	1.10	1.16	1.22	1.30		0.26	0.37	0.47	0.68	1.02	1.46	45.7			
TS7878- 18	7MM	18.0	0.90	4.9	1.07	1.09	1.10	1.16	1.22	1.30		0.26	0.37	0.47	0.68	1.02	1.46	45.7			
TS7878- 24	7MM	24.0	1.20	5.3	1.07	1.09	1.10	1.16	1.22	1.30		0.32	0.46	0.58	0.85	1.29	1.80	61.0			
TS7878- STS	7MM	INCH CABLES																			
MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM INCLUDING MEASURING SYSTEM UNCERTAINTY. SPECIFICATIONS FROM 6 THRU 18 GHZ ARE NOT VERIFIED AND ARE FOR REFERENCE ONLY.																					

HP PART NUMB	CONN.	LENGTH	ORDER QMI PART NUMBER
11851	N	24, 34	TS1818-STR (SET OF 3-24, 1-34)
NOTE11857 A + D	7MM	24	TS7878-ST5 (SET OF 2-7MM)
8120-4779	7MM	24	TS7878-24
8120-4780	N	34	TS1818-34
8120-4781	N	24	TS1818-24
8120-4782	N	8	TS1818-07
8120-4387	N	7.5	TS1818-07S (SET OF 4-7.5)
8120-5639	N	24	TS1818-24V

TYPICAL EQUIPMENT PROVIDED WITH THESE CABLES AS RF INTERCONNECTS:		
3577 ANA	8714 ANA	85046 S PAR
8502 T/R	8748 S PAR	85047 S PAR
8503 S PAR	8751 ANA	87511 S PAR
8505 ANA	8752 ANA	
8507 ANA	8753 ANA	ANA = AUTOMATIC NETWORK ANALYZER
8711 ANA	11850 PS	S PAR = S PARAMETER TEST SET
8712 ANA	35677 S PAR	T/R = TRANSMISSION REFLECTION TEST SET
8713 ANA	85044 T/R	PS = POWER SPLITTER

TS1818-STR IS A SET OF 3-24 INCH AND 1-34 INCH TYPE N CABLES USED TO INTERCONNECT TRANSMISSION REFLECTION TEST SETS AND POWER SPLITTERS

TS7878-ST5 IS A SET OF 2 MATCHED 24 INCH 7MM CABLES USED AS TEST PORT EXTENSION CABLES ON TRANSMISSION REFLECTION AND S PARAMETER TEST SETS.

TS1818-24V IS A LOW VSWR (<30 dB return loss) 24 INCH TYPE N CABLE FOR USE WITH 8752 SYSTEMS. CONSULT 8752 MANUAL FOR REPLACEMENT PROCEDURE

TS7878-18 IS PHASE MATCHED TO MASTER +/-2 DEGREES @ 2 GHZ.

NOTE: HP 11857 A AND 11857D ARE 50 OHM 7MM ASSEMBLIES 11857B IS A 75 OHM TYPE N ASSEMBLY

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.

PRODUCT INFORMATION AVAILABLE ON OUR WEB PAGE @ <http://www.tensolite.com>