

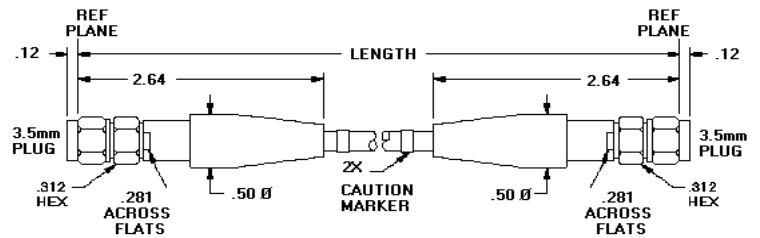
TENSOLITE CABLE ASSEMBLY

TECHNICAL DATA SHEET

3.5MM MALE TO 3.5 MM MALE
ON 504 FLEXIBLE CABLE

ELECTRICAL SPECIFICATIONS						
IMPEDANCE, NOMINAL:		50 OHMS				
CAPACITANCE NOMINAL:		28.7 pF/FOOT				
VELOCITY OF PROPAGATION, NOMINAL:		70.7 %				
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	12	18	26.5
MAX. CW WATTS -----	50	40	20	15	10	8

MECHANICAL SPECIFICATIONS:		
CABLE MAX. DIAMETER:	0.200	INCHES
MIN. ONE TIME BEND RADIUS:	1.17	INCHES
PREFERRED BEND RADIUS:	3.90	INCHES
CONNECTOR RETENTION:	60	POUNDS MIN.
TEMPERATURE RANGE:	-13 / +33	DEGREES C
MATING TORQUE:	7-10	INCH POUNDS
CONNECTOR INTERFACE:	3.5 MM	



MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	LP-389 FEP	BROWN TINT
CABLE SLEEVE:	POLYVINYLCHLORIDE	GREY OR BLACK
BOOTS:	NEOPRENE	GREY OR BLACK
CONTACTS:	ASTM B196 BeCu	MIL-G-45204 GOLD PLATED
INSULATORS:	ASTM D1710 PTFE	NONE
CONNECTOR BODIES:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
CONNECTOR NUTS:	ASTM A 582 303 STAINLESS STEEL	QQ-P-35 PASSIVATED
GASKET:	ZZ-R-765 SILICONE RUBBER	NONE
CAUTION LABEL MARKER	MIL-I-23053/5	YELLOW
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

PART NUMBER	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 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	18 TO 26.5	UP TO 2	2 TO 4	4 TO 6	6 TO 12	12 TO 18	18 TO 26.5	
K7272- 06	6.0	0.10	3.3	1.10	1.15	1.20	1.25	1.30	1.35	0.21	0.28	0.35	0.50	0.63	0.80	15.2
K7272- 12	12.0	0.15	3.7	1.10	1.15	1.20	1.25	1.30	1.35	0.30	0.42	0.52	0.76	0.98	1.24	30.5
K7272- 18	18.0	0.20	4.0	1.10	1.15	1.20	1.25	1.30	1.35	0.39	0.55	0.70	1.02	1.32	1.69	45.7
K7272- 24	24.0	0.24	4.4	1.10	1.15	1.20	1.25	1.30	1.35	0.48	0.69	0.87	1.29	1.66	2.13	61.0
K7272- 30	30.0	0.30	4.7	1.10	1.15	1.20	1.25	1.30	1.35	0.57	0.82	1.04	1.55	2.00	2.57	76.2
K7272- 36	36.0	0.36	5.0	1.10	1.15	1.20	1.25	1.30	1.35	0.66	0.96	1.21	1.81	2.35	3.02	91.4
K7272- 39	39.4	0.39	5.2	1.10	1.15	1.20	1.25	1.30	1.35	0.71	1.03	1.30	1.96	2.54	3.27	100.0
K7272- 40	40.0	0.40	5.3	1.10	1.15	1.20	1.25	1.30	1.35	0.72	1.04	1.32	1.99	2.57	3.31	101.6
K7272- 42	42.0	0.42	5.4	1.10	1.15	1.20	1.25	1.30	1.35	0.75	1.09	1.38	2.08	2.69	3.46	106.7
K7272- 48	48.0	0.48	5.7	1.10	1.15	1.20	1.25	1.30	1.35	0.84	1.22	1.55	2.34	3.03	3.91	121.9
K7272- 49	49.0	0.49	5.8	1.10	1.15	1.20	1.25	1.30	1.35	0.85	1.25	1.58	2.38	3.09	3.98	124.5
K7272- 52	52.0	0.52	6.0	1.10	1.15	1.20	1.25	1.30	1.35	0.90	1.31	1.66	2.51	3.26	4.20	132.1
K7272- 54	54.0	0.54	6.1	1.10	1.15	1.20	1.25	1.30	1.35	0.93	1.36	1.72	2.60	3.37	4.35	137.2
K7272- 59	59.0	0.59	6.4	1.10	1.15	1.20	1.25	1.30	1.35	1.00	1.47	1.86	2.82	3.66	4.72	149.9
K7272- 60	60.0	0.60	6.4	1.10	1.15	1.20	1.25	1.30	1.35	1.02	1.49	1.89	2.86	3.71	4.79	152.4
K7272- 72	72.0	0.72	7.1	1.10	1.15	1.20	1.25	1.30	1.35	1.20	1.76	2.23	3.39	4.40	5.68	182.9
K7272- 79	79.0	0.79	7.5	1.10	1.15	1.20	1.25	1.30	1.35	1.30	1.92	2.43	3.70	4.80	6.20	200.7
K7272- 84	84.0	0.84	7.8	1.10	1.15	1.20	1.25	1.30	1.35	1.38	2.03	2.58	3.92	5.08	6.57	213.4
K7272- 96	96.0	0.96	8.5	1.10	1.15	1.20	1.25	1.30	1.35	1.56	2.30	2.92	4.44	5.77	7.45	243.8
K7272- 108	108.0	1.08	9.2	1.10	1.15	1.20	1.25	1.30	1.35	1.74	2.57	3.26	4.97	6.45	8.34	274.3
K7272- 120	120.0	1.20	9.9	1.10	1.15	1.20	1.25	1.30	1.35	1.92	2.83	3.60	5.50	7.14	9.23	304.8
K7272- 144	144.0	1.44	11.2	1.15	1.20	1.25	1.30	1.35	1.45	2.28	3.37	4.29	6.55	8.51	11.00	365.8
K7272- 168	168.0	1.68	12.6	1.15	1.20	1.25	1.30	1.35	1.45	2.64	3.91	4.97	7.60	9.87	12.77	426.7
K7272- 180	180.4	1.80	13.3	1.15	1.20	1.25	1.30	1.35	1.45	2.82	4.18	5.32	8.14	10.58	13.69	458.1

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.

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