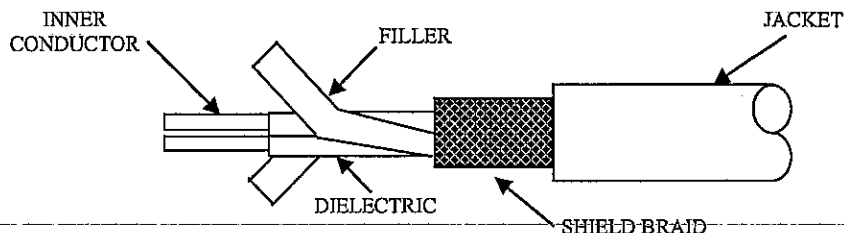


TSI SPECIFICATION SHEET
CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE
TWC-124-1A

MARK: TROMPETER ELECTRONICS TWINAX, TWC-124-1A (*)

(*) VENDOR ID LETTER



REQUIREMENTS:

1. IMPEDENCE (OF PAIR) ----- 124 ± 5 OHMS
2. OPERATING VOLTAGE ----- 0.3 KVRMS MAX/0.6 KVDC
3. BEND RADIUS ----- 1.5 INCH MIN
4. CAPACITANCE ----- 12.4 PF/FT
5. CONDUCTOR LOOP RESISTANCE ----- 570.6 OHMS/1000 FT MAX
6. VELOCITY OF PROPAGATION ----- 66% NOM
7. ATTENUATION:

FREQUENCY	dB/100 FT NOM	FREQUENCY	dB/100 FT NOM
1 MHz	3.25	40 MHz	11.80
3 MHz	4.40	50 MHz	13.20
4 MHz	4.80	100 MHz	18.70
5 MHz	5.20	200 MHz	26.40
7 MHz	5.60	500 MHz	41.70
10 MHz	5.90	700 MHz	49.40
20 MHz	8.30	1000 MHz	59.00
30 MHz	10.20		
8. WEIGHT ----- 16.1 LB/1000 FT
9. OPERATING TEMPERATURE RANGE ----- -40° C TO $+80^{\circ}$ C

DATE 11/24/04

M Schuch

DESCRIPTION	CONSTRUCTIONAL DETAILS
INNER CONDUCTORS	TWO CONDUCTORS, EACH 7 STRANDS OF AWG SIZE 38 TINNED COPPER WIRE. NOM DIA .012
DIELECTRICS	TWO EACH POLYETHYLENE PER L-P-390C, TYPE II, C1.H, 1 EA GR.3, NATURAL, 1 EA GR.2, BLUE. $.043 \pm .002$ DIA TYP
FILLERS	TWO EACH POLYETHYLENE PER L-P-390C, TYPE II C1.L GR.3 .028 DIA NOM
CABLE CORE	$.085 \pm .003$ OD DIELECTRICS AND FILLERS TO HAVE A RIGHT HAND OR LEFT HAND LAY, 8 TWISTS PER FOOT. A NYLON-THREAD WRAP SHALL THEN BE APPLIED WITH SUFFICIENT COVERAGE TO MAINTAIN THE POSITION OF THE COMPONENTS.
SHIELD	SINGLE BRAID, AWG SIZE 36 TINNED COPPER WIRE SHIELD COVERAGE 93%. $.105$ O.D.
JACKET	BLUE (PER EIA-359-A, MUNSELL COLOR CHART, SYMBOL CENTROID) POLYVINYLCHLORIDE $.150 \pm .005$ O.D.

APPR

DWN DAR

EO 13677

REV J

TSI	DWN	DAR	10-17-00	MATERIAL	CODE IDENT	DRAWING NO.	REV				
	CHK	<i>D. Curran</i>	<i>11/24/04</i>					14949	TWC-124-1A	J	
	ENG	<i>Rylee</i>	<i>11-24-04</i>					SCALE -----	DATE	5-15-79	SHEET
	APPR	<i>T. Cla</i>	<i>11-24-04</i>								