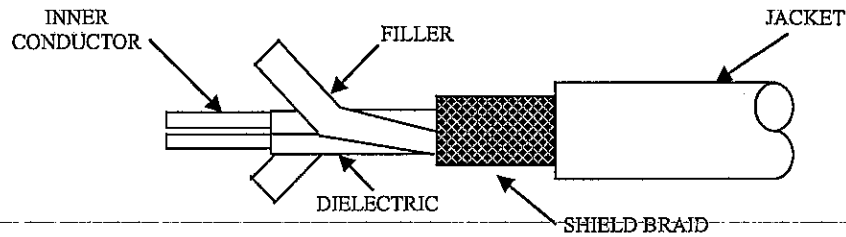


TSI SPECIFICATION SHEET
CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE
TWC-124-1A

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° C | | |

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 ± .002 DIA TYP
FILLERS	TWO EACH POLYETHYLENE PER L-P-390C, TYPE II C1.L GR.3 .028 DIA NOM
CABLE CORE	.085 ± .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 ± .005 O.D.

DATE 11/24/04
 APPR [Signature]
 DWN DAR
 EO 13677
 REV J

TSI	DWN	DAR	10-17-00	MATERIAL	CODE IDENT	DRAWING NO.	REV
	CHK	[Signature]	11/24/04				
	ENG	[Signature]	11-24-04				
	APPR	[Signature]	11-24-04				
	SCALE	DATE	5-15-79		SHEET		