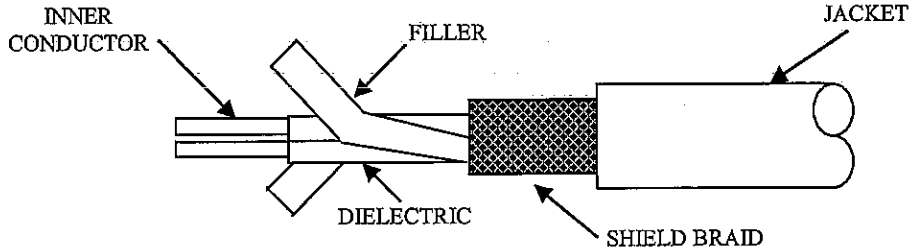


**TSI SPECIFICATION SHEET**  
**CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE**  
**TWC-124-2**



**REQUIREMENTS:**

1. IMPEDENCE (OF PAIR) ----- 124 ± 4 OHMS
2. OPERATING VOLTAGE ----- 1 KVRMS MAX/2 KVDC
3. BEND RADIUS ----- 1.25 INCH MIN
4. CAPACITANCE ----- COND TO COND ----- 12.3 PF/FT  
 ONE COND TO BRAID ----- 23 PF/FT  
 BOTH COND TO BRAID ----- 38 PF/FT
5. CONDUCTOR LOOP RESISTANCE ----- 56.8 OHMS/1000 FT MAX
6. VELOCITY OF PROPAGATION ----- 66% NOM
7. ATTENUATION: FREQUENCY                      dB/100 FT NOM                      FREQUENCY                      dB/100 FT NOM
 

1 MHz	0.54	40 MHz	3.20
3 MHz	0.92	50 MHz	3.60
4 MHz	1.06	100 MHz	5.10
5 MHz	1.18	200 MHz	7.20
7 MHz	1.40	500 MHz	11.40
10 MHz	1.65	700 MHz	13.50
20 MHz	2.30	1000 MHz	16.20
30 MHz	2.80		
8. WEIGHT ----- 32.87 LB/1000 FT
9. INSULATION RESISTANCE (MIN) ----- COND TO COND ----- 20 MEGOHMS/1000 FT
10. OPERATING TEMPERATURE RANGE ----- -40° C TO +80° C
11. MARK: TROMPETER ELECTRONICS TWINAX TWC-124-2 (\*)  
 (\*) VENDOR I.D. CODE

DESCRIPTION	CONSTRUCTIONAL DETAILS
INNER CONDUCTORS	TWO CONDUCTORS, EACH 7 STRANDS OF AWG SIZE 33 TINNED COPPER WIRE. NOM DIA .022
DIELECTRICS	TWO EACH POLYETHYLENE, ONE BLUE AND ONE NATURAL. NOM DIA .080
FILLERS	TWO EACH POLYETHYLENE. NOM DIA .050
CABLE CORE	.162 NOM O.D., .167 MAX DIELECTRICS AND FILLERS TO HAVE A 3.00 ± .25 RIGHT-HAND LAY, 4 TWISTS PER FOOT. A NYLON-THREAD WRAP SHALL THEN BE APPLIED WITH SUFFICIENT COVERAGE TO MAINTAIN THE POSITION OF THE COMPONENTS.
SHIELD	SINGLE BRAID, (128 STRANDS 16X8) AWG SIZE 36 TINNED COPPER WIRE 9.8 PICKS/IN, 32° BRAID ANGLE, 4.2 OHM/M FT D.C. RESISTANCE. SHIELD COVERAGE 93% NOM, MAX O.D. .195
JACKET	BLUE (PER EIA-359-A, MUNSELL COLOR CHART, SYMBOL CENTROID) POLYVINYLCHLORIDE .245 ± .005 O.D.

DATE 11/24/04  
 APPR M. Schmitt  
 DWN DKC  
 EO 11264  
 REV E

<b>TSI</b>	DWN	DKC	9-27-95	MATERIAL	CODE IDENT	DRAWING NO.	REV
	CHK	<i>D. Brown</i>	<i>11/24/04</i>	_____	14949	TWC-124-2	E
	ENG	<i>R. S.</i>	<i>11-24-04</i>				
	APPR	<i>TCL</i>	<i>11-24-04</i>	SCALE _____	DATE 10-31-77	SHEET	

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