## TSISPECIFICATION SHEET CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE TWC-78-2

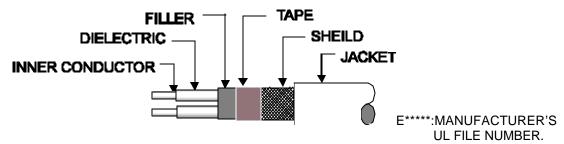
MARK: TROMPETER ELECTRONICS TWINAX, TWC-78-2 E\*\*\*\*\* AWM STYLE 2092 (\*)

\*(VENDOR 4 DIGIT NUMBER TO BE ASSIGNED BY TEI PURCHASING DEPT.)

PKC

DWN

REV J



## REQUIREMENTS:

1	IMPEDENCE (OF DAIR)	78 ± 3 OHMS
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- 2. OPERATING VOLTAGÉ ------ 1 KVRMS MAX/2 KVDC
- 3. BEND RADIUS ------ 1.25 INCH MIN
- 5. CONDUCTOR LOOP RESISTANCE ------ 20.0 OHMS/M FT MAX
- 6. VELOCITY OF PROPAGATION ----- 66% NOM

Ο.	VELOCITY OF TROPAGATION	00 /0 INOIVI		
7.	ATTENTUATION: FREQUENCY	dB/100 FT NOM	FREQUENCY	dB/100 FT NOM
	1 MHz	0.70	40 MHz	4.50
	3 MHz	1.10	50 MHz	5.10
	4 MHz	1.40	100 MHz	7.50
	5 MHz	1.55	200 MHz	10.50
	7 MHz	1.80	500 MHz	16.00
	10 MHz	2.20	700 MHz	18.60
	20 MHz	3.10	1000 MHz	22.50
	30 MHz	3.90		

- 8. HEAT AGING ATTENUATION TEST: SUBJECT A 180 FOOT SAMPLE TO 80°C IN AIR CIRCULATING OVEN FOR 72 HRS. REMOVE CABLE FROM THE OVEN AND LET STABILIZE TO ROOM TEMP (4 HRS MIN). THE ATTENTUATION AT 7 MHZ SHALL NOT INCREASE MORE THAN .48 dB/100 FT FROM ITS UNAGED VALUE
- 9. WEIGHT ----- .0353 LB/ FT
- 10. INSULATION RESISTANCE (MIN) ----- 20 MEGOHMS/1000 FT

DESCRIPTION	CONSTRUCTIONAL DETAILS			
INNER CONDUCTORS	TWO CONDUCTORS, EACH 7 STRANDS OF AWG SIZE 28 TINNED COPPER WIRE. NOM DIA .037 (AWG 20)			
DIELECTRICS	TWO EACH POLYETHY LENE, ONE BLUE, ONE NATURAL. NOM DIA .076			
FILLERS	TWO EACH POLYETHYLENE. NOM DIA .052			
	.154 NOM O.D., .160 MAX DIELECTRICS AND FILLERS TO HAVE A			
CABLE CORE	2.92 ± .25 RIGHT-HAND OR LEFT-HAND LAY, 4 TWISTS PER FOOT. A NYLON THREAD WRAP SHALL 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.D195			
JACKET	BLUE (PER EIA-359-A, MUNSELL COLOR CHART, SYMBOL CENTROID) POLYVINYLCHLORIDE .242 ± .005 O.D.			

	DWN	DKC	10-6-98	MATERIAL	CODE IDENT	DRAWING NO.	REV
TSI	СНК	D. CORNMAN	11-24-04		14949	TWC-78-2	ı
131	ENG	R. THIELE	11-24-04		14949	100-70-2	J
	APPR	T. CLARE	11-24-04	SCALE	DATE 9-27-70	SHEET	