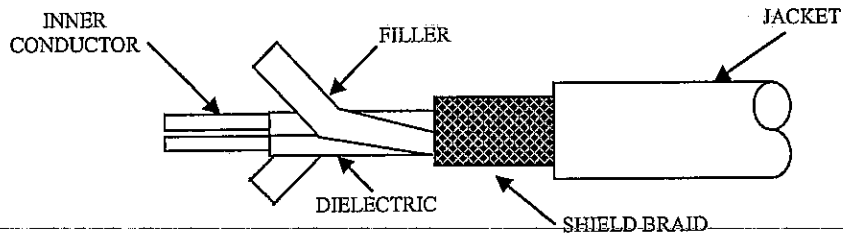


TSI SPECIFICATION SHEET
CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE (TWINAX)
HIGH TEMPERATURE
TWAC-78-1F2



REQUIREMENTS:

1. IMPEDENCE (OF PAIR) ----- 77 ± 7 OHMS AT 1 MHz
2. OPERATING VOLTAGE ----- 250 VRMS (PER FED-STD-228, METHOD 6111)
3. BEND RADIUS ----- 1.25 INCH MIN
4. CAPACITANCE ----- 23 ± 4 PF/FT
5. CONDUCTOR LOOP RESISTANCE ----- 146 OHMS/M FT
6. PROPAGATION DELAY ----- 1.46 NS/FT $\pm .05$ NS
7. VELOCITY OF PROPAGATION ----- 69.5% NOM
8. OPERATING TEMPERATURE RANGE ----- 55° C TO 200° C
9. ATTENUATION: FREQUENCY db/100 FT NOM
 1 MHz 2.0
 10 MHz 6.5
10. MARKING ----- IDENTIFICATION ON SPOOL OR TAG TO READ AT A MINIMUM
 "TRUMPETER (14949) #TWAC-78-1F2 CABLE"
11. WEIGHT ----- 10.5 LB/M FT MAX
12. MARK: TRUMPETER ELECTRONICS TWINAX TWAC-78-1F2 (*)

(*) VENDOR I.D. CODE

DESCRIPTION	CONSTRUCTIONAL DETAILS
INNER CONDUCTORS	TWO CONDUCTORS, EACH 19 STRANDS OF AWG SIZE 40 SILVER COATED PER ASTM B-298, HIGH STRENGTH COPPER ALLOY WIRE. * NOM DIA .0149 (3.78 MM) 7.1 OHMS/100 FT D.C. RESISTANCE MAX AT 20° C
DIELECTRICS	TWO EACH FEP OR PTFE, ONE BLUE AND ONE WHITE .026 \pm .002 DIA (.66 \pm .051 MM)
FILLERS (TO ROUND)	TWO EACH FEP OR PTFE
CABLE CORE (TWISTED PAIR AND FILLERS)	.052 \pm .004 OD (1.32 \pm .102 MM) 16 \pm 4 TWISTS PER FOOT
SHIELD BRAID	SINGLE BRAID, AWG SIZE 38 (.102 MM DIA) SILVER COATED PER ASTM B-298 HIGH STRENGTH COPPER ALLOY WIRE * SHIELD COVERAGE: 90% MIN OD .070 \pm .004 (1.78 \pm .051 MM) 16 CARRIERS, 4 ENDS 15.5 \pm 10% PICKS PER IN. 20.1 NOM BRAID ANGLE
JACKET	PFA (PERFLUOROALKOXY) BLUE (PER EIA-359-A, MUNSELL COLOR CHART, SYMBOL CENTROID) .095 \pm .005 O.D. (2.41 \pm .127 MM)

* PER ASTM B-624

TSI	DWN	DKC	8-7-00	MATERIAL	CODE IDENT	DRAWING NO.	REV
	CHK	<i>D. Cramer</i>	<i>11/24/04</i>				
	ENG	<i>R. J. ...</i>	<i>11-24-04</i>	SCALE -----	DATE	10-3-83	SHEET
	APPR	<i>T. Cl...</i>	<i>11-24-04</i>				

DATE 11/24/04

APPR *M. Sch...*

DWN

EO 70021

REV E