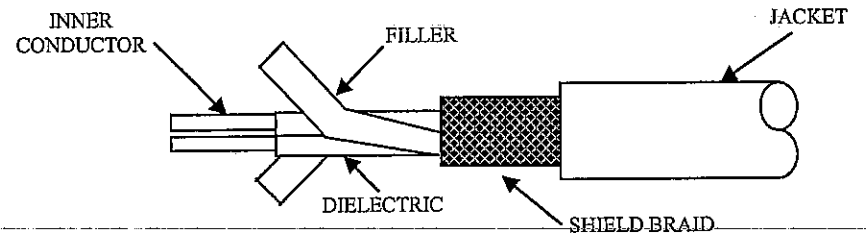
TSI SPECIFICATION SHEET
CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE (TWINAX)
HIGH TEMPERATURE
TWAC-78-1F2



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 ± .05 NS
7. VELOCITY OF PROPAGATION ---------- 69.5% NOM
8. OPERATING TEMPERATURE RANGE ---------- 55° C TO 200° C
9. ATTENTUATION:

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 "TROMPETER (14949) #TWAC-78-1F2 CABLE"
11. WEIGHT ---------- 10.5 LB/M FT MAX
12. MARK: TROMPETER 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 ± .002 DIA (.66 ± .051 MM)
FILLERS (TO ROUND)	TWO EACH FEP OR PTFE
CABLE CORE (TWISTED PAIR AND FILLERS)	.052 ± .004 OD (1.32 ± .102 MM) 16 ± 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 ± .004 (1.78 ± .051 MM) 16 CARRIERS, 4 ENDS 15.5 ± 10% PICKS PER IN. 20.1 NOM BRAID ANGLE
JACKET	PFA (PERFLUOROALKOXY) BLUE (PER EIA-359-A, MUNSELL COLOR CHART, SYMBOL CENTROID) .095 ± .005 O.D. (2.41 ± .127 MM)

* PER ASTM B-624

DATE 11/24/04
APPR
DWN
EO 70021
REV E

TSI	DWN	DKC	8-7-00	MATERIAL	CODE IDENT	DRAWING NO.	REV
	CHK	D Cleaver	11/24/04	———	14949	TWAC-78-1F2	E
	ENG		11-24-04	SCALE -------	DATE 10-3-83	SHEET	
	APPR	T Cla	11-24-04				