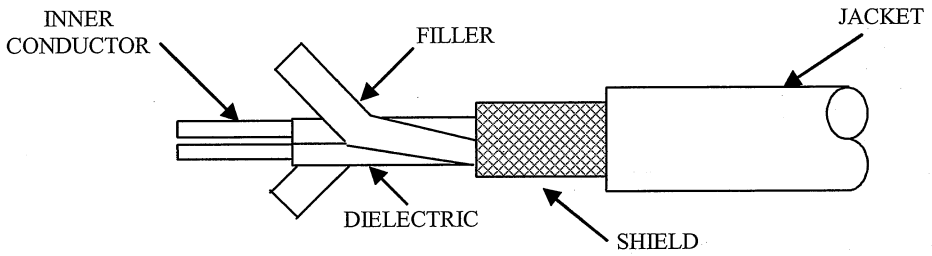
TROMPETER SPECIFICATION SHEET
CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE
TWC-78-1

RED INDICATES ORIGINAL



REQUIREMENTS:

1. IMPEDENCE (OF PAIR) ---------- 78 ± 3 OHMS
2. OPERATING VOLTAGE ---------- 0.3 KVRMS MAX/0.6 KVDC MAX
3. BEND RADIUS ---------- 1.5 INCH MIN
4. CAPACITANCE ---------- COND TO COND ---------- 20.3 PF/FT MAX
   CONDS TO SHIELD ------- 36.5 PF/FT
5. CONDUCTOR LOOP RESISTANCE ----------179 OHMS/M FT MAX
6. VELOCITY OF PROPAGATION ---------- 66% NOM
7. ATTENTUATION:

FREQUENCY	dB/100 FT NOM	FREQUENCY	dB/100 FT NOM
1 MHz	2.00	40 MHz	10.60
3 MHz	3.00	50 MHz	11.90
4 MHz	3.50	100 MHz	16.80
5 MHz	4.00	200 MHz	23.70
7 MHz	4.50	500 MHz	37.50
10 MHz	5.30	700 MHz	44.30
20 MHz	7.50	1000 MHz	53.00
30 MHz	9.20		

8. WEIGHT ---------- 15.7 LB/1000 FT
9. OPERATING TEMPERATURE RANGE ---------- -40° C TO +80° C
10. MARK: TROMPETER ELECTRONICS TWINAX TWC-78-1 (*)
    (*) VENDOR I.D. CODE

DESCRIPTION	CONSTRUCTIONAL DETAILS
INNER CONDUCTORS	TWO CONDUCTORS, EACH 7 STRANDS OF AWG SIZE 33 TINNED COPPER WIRE PER ASTM-B-33. NOM DIA .022
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
CABLE CORE	.085 ± .003 O.D. DIELECTRICS AND FILLERS TO HAVE A RIGHT HAND OR LEFT HAND LAY, 8 TWISTS PER FOOT. AN OPTIONAL NYLON-THREAD WRAP MAY 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%. .108 NOM O.D.
JACKET	BLUE (PER EIA-359-A, MUNSELL COLOR CHART, SYMBOL CENTROID) POLYVINYLCHLORIDE .150 ± .005 O.D.

REV L | ECO 16590 | DWN MWJ | APPR | DATE 7-1-2008

TSI				MATERIAL	CODE IDENT	DRAWING NO.	REV
	DWN	M JOHNSON	3-12-08				
	CHK	JM	6-26-08		14949	TWC-78-1	L
	ENG						
	APPR	LM	6-30-08	SCALE -------	DATE 10-6-76	SHEET	