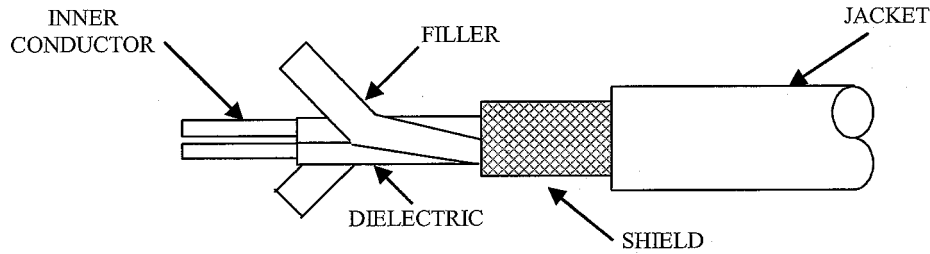


**TROMPETER SPECIFICATION SHEET**  
**CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE**  
**TWC-78-1**

**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. ATTENUATION: 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.

DATE **7-1-2008**  
 APPR *[Signature]*  
 DWN MWJ  
 ECO 16590  
 REV L

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