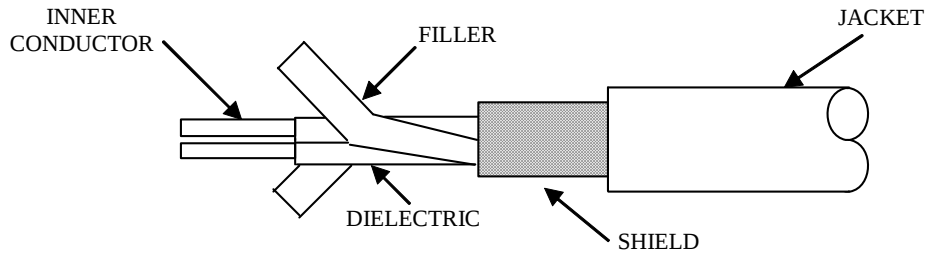


TROMPETER SPECIFICATION SHEET

CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE

TWC-78-1



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
COND 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 $+80^{\circ}\text{C}$
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 $\pm$.002 DIA TYP
FILLERS	TWO EACH POLYETHYLENE PER L-P-390C, TYPE II C1.L GR.3
CABLE CORE	.085 $\pm$.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 $\pm$.005 O.D.

CCS TROMPETER	DWN	M JOHNSON	3-12-08	MATERIAL	CODE IDENT	DRAWING NO.	REV
	CHK			_____	14949	TWC-78-1	L
	ENG						
	APPR			SCALE -----	DATE 10-6-76	SHEET	