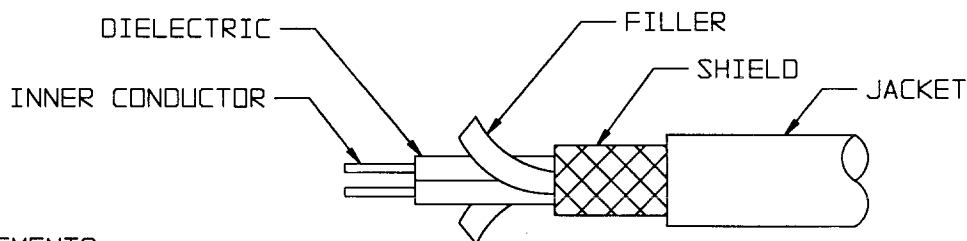


RED INDICATES ORIGINAL

TROMPETER SPECIFICATION SHEET CABLE, RADIO FREQUENCY, TWIN CONDUCTOR, BALANCED LINE



REQUIREMENTS:

1. IMPEDANCE (OF PAIR) - - - - - 78 \pm 3 ohms
2. OPERATING VOLTAGE - - - - - 0.3 KVRMS MAX/0.6 KVDC MAX
3. BEND RADIUS - - - - - 1.5 in. max
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 TWC-78-1 (*)

(*) VENDOR I.D.
CODE

TABLE 1

DESCRIPTION	CONSTRUCTION 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 EACH GR.3, NATURAL, 1 EACH 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 POLYVINYLCHLORIDE, .150 \pm .005 O.D.

**TROMPETER
ELECTRONICS, INC.**

DWN	DKC	3-15-99
CHK	NOM.	3/22/99
ENGR		
APPR		3-23-99

MATERIAL	CODE IDENT	DRAWING NO.	REV
	14949	TWC-78-1	K
SCALE	DATE 10-6-76	SHEET	

DATE 3/23/99

NOM.

APPR

DWN DKC

REV K E D 12779

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