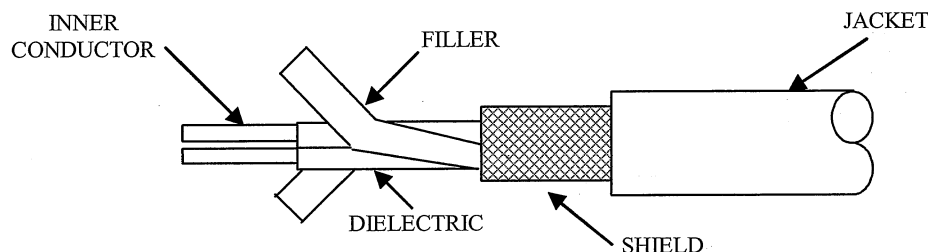


TROMPETER SPECIFICATION SHEET

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
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
- | | 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.

TSI	DWN	M JOHNSON	3-12-08	MATERIAL	CODE IDENT	DRAWING NO.	REV
	CHK	<i>jm</i>	6-26-08		14949	TWC-78-1	L
	ENG			SCALE	DATE	10-6-76	SHEET
	APPR	<i>zm</i>	4-30-08				

DATE 7-1-2008

William W. Johnson

APPR

DWN MWJ

ECO 16590

REV L