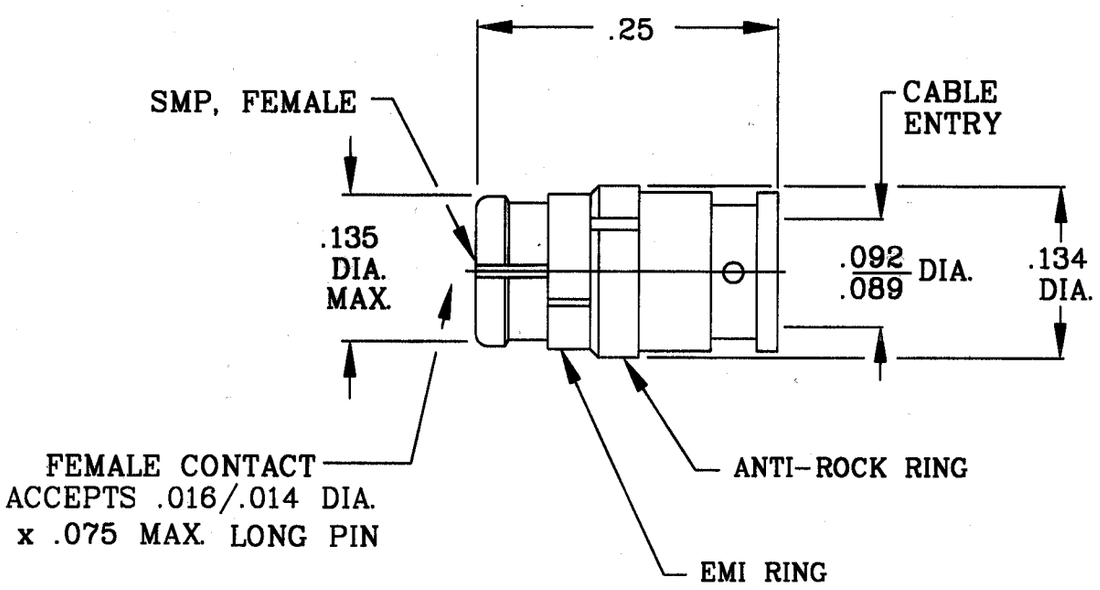
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-20-8 AND MIL-STD 348, Fig. 326-1.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX.) *	DC TO 18.0 GHz., 1.20 MAX.
	18.0 TO 26.5 GHz., 1.35 MAX.
	26.5 TO 40.0 GHz., 1.50 MAX.
INSERTION LOSS (dB MAX.) *	.12 dB x $\sqrt{FGHz.}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	3.0 GHz.,-80 dB - FGHz.
	26.5 GHz., -65 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
–	1032	11/93	M.B.
AA	97-0641	11/16/97	DGG
AB	98-0004	1/12/98	DGG
AC	02-0235	3/29/02	JS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	±1/16"	X°±1° 0' X° X' ±15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN M.B. DATE 11/93

APPROVED T.S. DATE 11/93

TITLE
SMP, FEMALE
DIRECT SOLDER
TO .085 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2000-8520-5425

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	N/A
● MIN. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCES	
● INSERTION (MAX. LBS.)	15.0 (FULL DETENT)
● WITHDRAWAL (MIN. LBS.)	5.0 (FULL DETENT)
CONNECTOR DURABILITY (MIN. MATING)	100 (FULL DETENT)
CABLE RETENSION (SOLDER)	50.0 LBS. MIN.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 165 °c)
SHOCK	MIL–STD–202, METHOD 213, COND. I (100 G's)
VIBRATION (HIGH FREQUENCY)	MIL–STD–202, METHOD 204, COND. D (20 G's)
VIBRATION (RANDOM)	MIL–STD–202, METHOD 214, TEST COND. F.
THERMAL SHOCK	MIL–STD–202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.
MOISTURE RESISTANCE	MIL–STD–202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).
CORROSION	MIL–STD–202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (190 VRMS MIN.)
CORONA LEVEL	70,000 FEET.

5. MATERIAL

CONNECTOR BODY, CENTER CONTACT, ANTI–ROCK RING AND EMI RING	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER D 4894.

6. FINISH

CONNECTOR BODY, CENTER CONTACT, ANTI–ROCK RING AND EMI RING	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1 (.00005–.0001 THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00005–.0001 THK.).
INSULATOR	N/A

REV.	DCN NUMBER	DATE	APP.
CA	97-0641	11/6/97	DGG
CB	98-0580	7/7/98	DGG
CC	98-1053	11/5/98	GL
CD	00-1277	10/10/00	DGG
CE	02-0235	4/1/02	DGG

CABLE/CONNECTOR ASSEMBLY INSTRUCTIONS

CONNECTOR TYPE: SMP, FEMALE DIRECT SOLDER ATTACHMENT

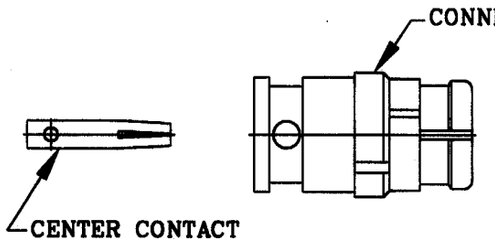
CABLE TYPE: STD. .085 SEMI-RIGID

DRAWING No. 2000-8520-5425

Approved T.S.

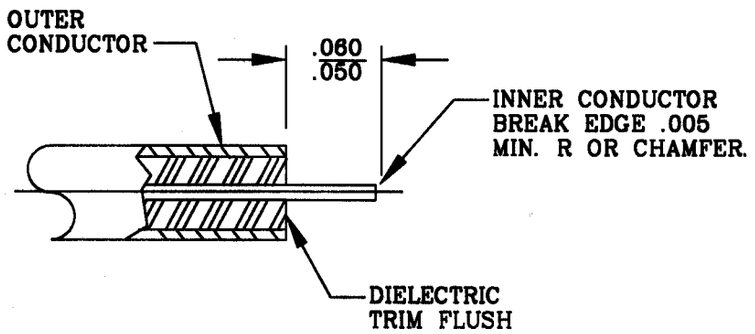
Drawn C.T.

PARTS SUPPLIED



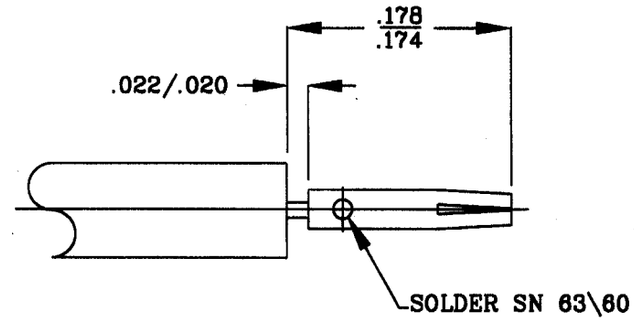
STEP 1: CABLE PREPARATION

TRIM OUTER CONDUCTOR AND DIELECTRIC TO DIMENSIONS SHOWN EXPOSING INNER CONDUCTOR. DO NOT EXCESSIVELY NICK INNER CONDUCTOR.



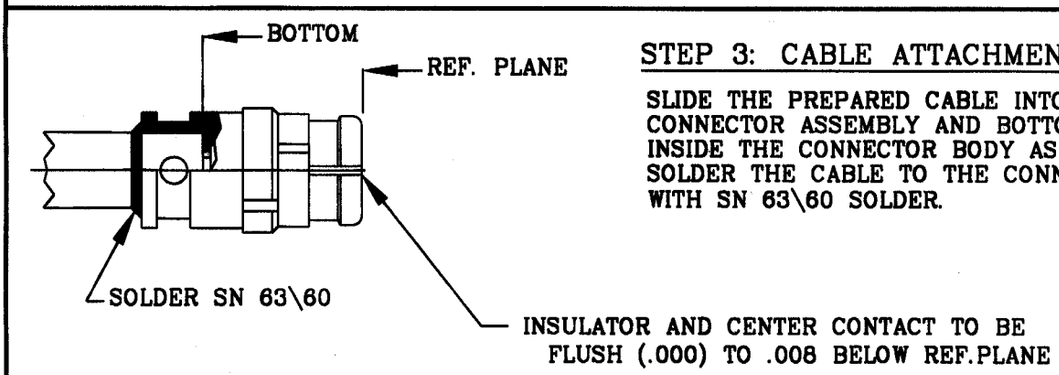
STEP 2: CONTACT ATTACHMENT

SLIDE THE CENTER CONTACT OVER THE CENTER CONDUCTOR OF THE CABLE. SET GAP AS SHOWN AND SOLDER TO DIMENSION SHOWN WITH SN 63\60 SOLDER.



STEP 3: CABLE ATTACHMENT

SLIDE THE PREPARED CABLE INTO THE CONNECTOR ASSEMBLY AND BOTTOM CABLE INSIDE THE CONNECTOR BODY AS SHOWN SOLDER THE CABLE TO THE CONNECTOR WITH SN 63\60 SOLDER.



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