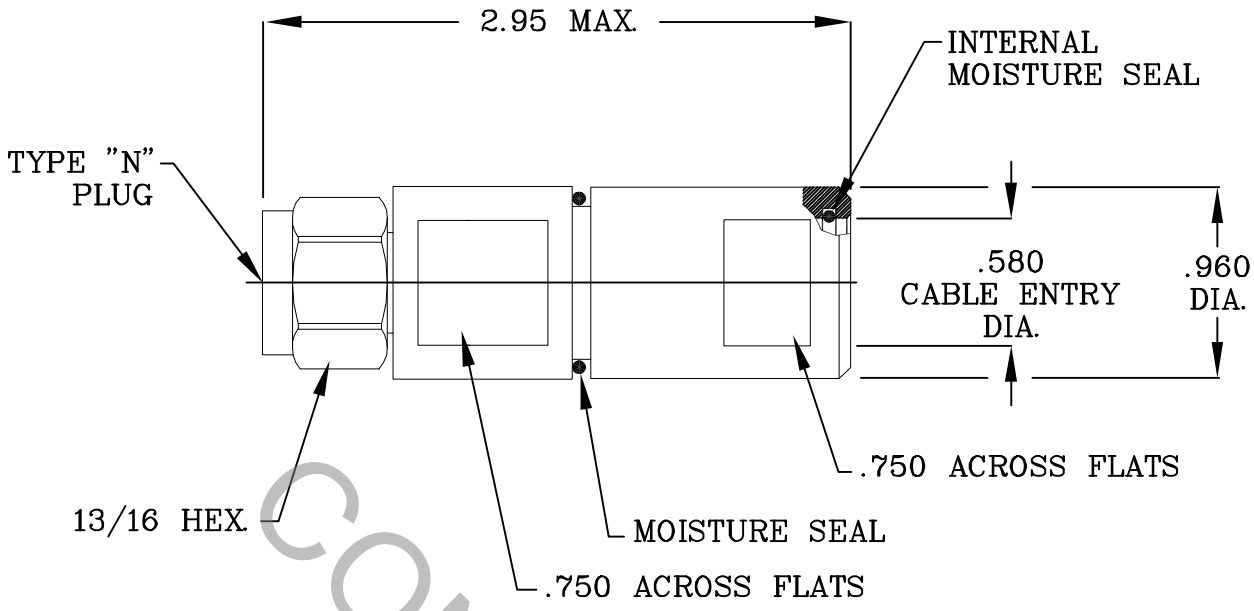
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 304-1, TYPE "N" PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 10.0 GHz.
VSWR (MAX.) ❋	1.10 + .010 FGHz.
INSERTION LOSS (dB MAX.) ❋	.04 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	750
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	2,500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• OUTER CONTACT (MAX. MILLIOHMS)	3.0

❋ TERMINATED IN A 50 OHM LOAD

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REV.	DCN NO.	DATE	APP.
–	1130	1/95	TS
AA	96-0001	8/96	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL ±1/64
ANGULAR X° ±1°, X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

DRAWN TS DATE 2/95

APPROVED TS DATE 2/95

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

TITLE TYPE "N", PLUG STRAIGHT TO .500 DIA. SUPERFLEX® FIRE RETARDANT CABLE P/N FSJ4RN-50B

DWG. NO. 7400-5501-6202

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) — N/A

CONNECTOR DURABILITY (MIN. CYCLES) — 1,000

RECOMMENDED MATING TORQUE

INTERFACE — 35/40 IN. LBS.

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4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 200 °c)
SHOCK	MIL–STD–202, METHOD 213, COND. I (100 G's)
VIBRATION	MIL–STD–202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL–STD–202, METHOD 106, LESS STEP 7b
CORROSION	MIL–STD–202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (625 VRMS)

5. MATERIAL

CLAMP NUT, COMPRESSION SLEEVE AND CLAMP SLEEVE	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000
CONNECTOR BODY, COUPLING NUT	STAINLESS STEEL PER ASTM A581, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91
MOISTURE SEALS	SILICONE
SHRINK SLEEVE	POLYOLEFIN, FLEXIBLE PER MIL–I–23053/5

6. FINISH

CLAMP NUT, COMPRESSION SLEEVE AND CLAMP SLEEVE	NICKEL PER QQ–N–290, CLASS 1 OVER WOODS OR WATTS NICKEL OVER COPPER PER MIL–C–14550
CONNECTOR BODY, COUPLING NUT	PASSIVATE PER QQ–P–35C, TYPE VI.
CENTER CONTACT	GOLD PER MIL–G–45204, TYPE I, GRADE A (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550, CLASS 4
INSULATOR AND MOISTURE SEALS SHRINK SLEEVE	N/A