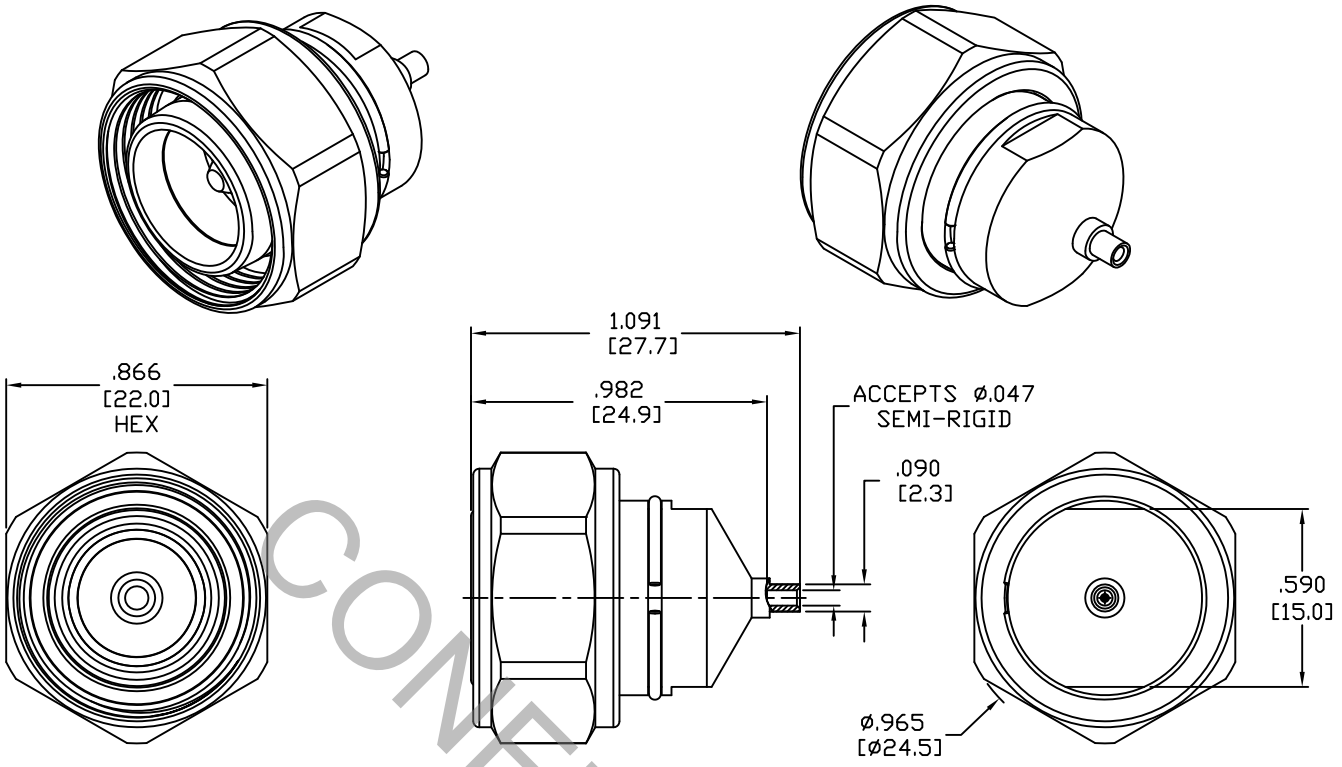
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS Per IEC61169-54

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz
VSWR (MAX.) ❋	1.05 + .017 x FGHz
INSERTION LOSS (dB MAX.) ❋	.10 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	167
RF LEAKAGE (MIN. dB DOWN)	−100 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

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	17-1828	6/29/17	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1°0' X°X' ± 15'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN DC DATE 6/29/17

APPROVED DC DATE 6/29/17

TITLE
4.3-10 PLUG,
DIRECT SOLDER TO
ø.047 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 5800-4721-2100

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)	INTERFACE 48.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	18 – 22 IN. LBS.

CONFIDENTIAL

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, COND. C (–65° c TO + 165° 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.) (125 VRMS)

5. MATERIAL

BODY	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
CONTACT	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710, TYPE 1, GRADE 1, CLASS B.
RETAINING RING	302 SERIES STAINLESS STEEL.
O–RING	SILICONE RUBBER PER ZZ–R–765E CLASS 1, OR ASM 3304.

6. FINISH

BODY & CONTACT	SILVER PER QQ–S–365, TYPE 2, GRADE A (.000150 MIN. THK.) OVER COPPER PER AMS–2418, CLASS 4 (.000100 MIN. THK.).
INSULATOR & O–RING	N/A
RETAINING RING	PASSIVATED PER AMS–2700, TYPE 2, CLASS 4.