

NOTES:

1. ELECTRICAL

- 1.1 IMPEDANCE: 50 Ω
- 1.2 FREQUENCY RANGE: DC ~ 18 GHz
- 1.3 VSWR: 1.30 MAX @ 18 GHz
- 1.4 INSERTION LOSS: SEE TABLE 2 / "IL"
- 1.5 RF LEAKAGE: N/A
- 1.6 INSULATION RESISTANCE: 1000 MO MIN
- 1.7 DIELECTRIC WITHSTANDING VOLTAGE: 500VRMS MIN AT SEA LEVEL

2. VOLTAGE RATING: 335 VRMS

- MECHANICAL:
- 2.1 DURABILITY: ≥500 CYCLES
  - 2.2 MINIMUM BENDING RADIUS(STATIC): 39 MM
  - 2.3 MINIMUM BENDING RADIUS(REPEATED): 78 MM
  - 2.4 BENDING STABILITY: +/-2° @ 18 GHz(TYPICAL), +/-7° @ 18 GHz(MAX)
  - 2.5 CABLE RETENTION FORCE: 30 LBS MIN.
  - 2.6 RECOMMENDED COUPLING TORQUE: 7-8 IN-LBS
  - 2.7 COUPLING NUT RETENTION FORCE: ≥ 60 LBS

3. ENVIRONMENTAL:

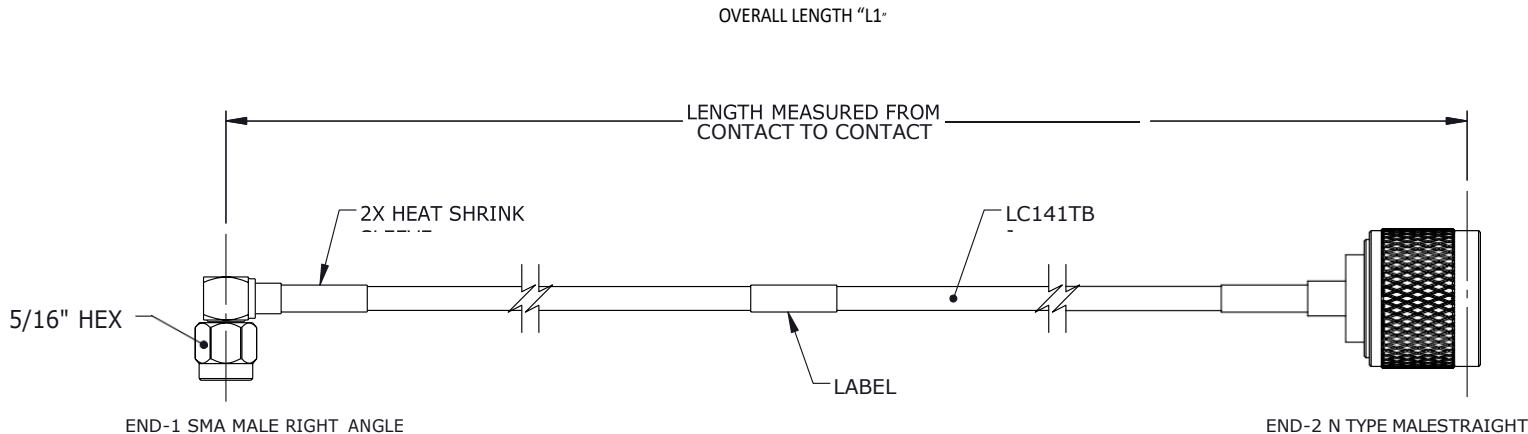
TEMPERATURE RANGE: -55°C TO +165°C

4. MATERIAL AND FINISH: RAW CABLE,

- 4.01 JACKET: FEP, BLUE
- 4.02 FEATURES: LOW LOSS, FLEXIBLE CONNECTORS(BOTH ENDS),
- 4.03 BODY: STAINLESS STEEL, PASSIVATED
- 4.04 COUPLING NUT: STAINLESS STEEL, PASSIVATED
- 4.05 CENTER CONTACT: BERYLLIUM COPPER, GOLD
- 4.06 DIELECTRIC: ENGINEERING PLASTIC

UNITS: MILLIMETERS[INCHES]

# ASSEMBLY DRAWING



TWO LABELS POSITIONED AT BOTH ENDS

## CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

**Attenuation (typical value@25°C & VSWR=1.0)**

**Average power (typical value@40°C & atmospheric pressure)**

Frequency MHz	100	300	500	1000	2400	3000	4000	6000	10000	12400	18000
Att. dB/1 m	0.04	0.08	0.1	0.14	0.23	0.25	0.3	0.37	0.48	0.54	0.66
Avg. Power kW	5.817	3.341	2.579	1.812	1.156	1.030	0.887	0.717	0.547	0.488	0.399
				K1=	0.4563000						
				K2=	0.0003200						
Calculate Attenuation=K1 * √ F.MHz+K2 * F.MHz											

**TABLE - 2** (Raw Attenuation)

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS. AND  
TOLERANCES ARE: DECIMALS ANGLES  
X.X: 0.25 [.0100] ± 3°  
X.XX: 0.05 [.0020]  
X.XXX: 0.025 [.0010]

**PROPRIETARY NOTE**  
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DESC: SMA Male Right Angle - N-Type Male Straight Cable Assembly

PN: MEC-RFCA-201-SMA(MRA)-N(MS)-3Meter