NOTES:

UNITS: MILLIMETERS[INCHES]

ASSEMBLY DRAWING

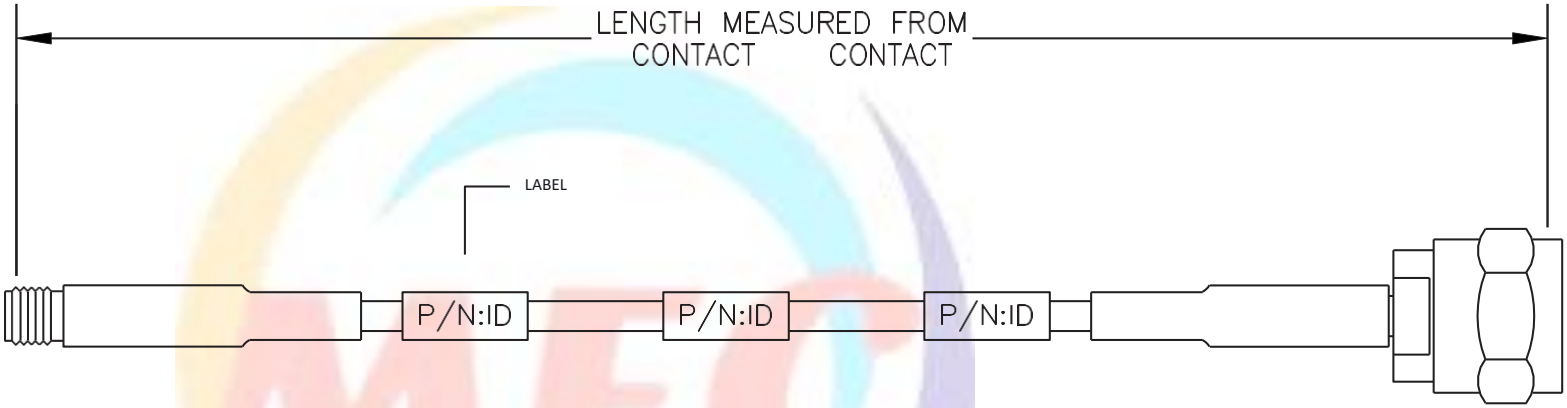
NOTES:

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: ≥ 90 DB
- 1.6 INSULATION RESISTANCE: 1200 MΩ MIN
- 1.7 DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL
- 1.8 VOLTAAGE RATING: 335 VRMS

2. MECHANICAL:
- 2.1 DURABILITY: ≥500 CYCLES
- 2.2 MINIMUM BENDING RADIUS(STATIC): 52 MM
- 2.3 MINIMUM BENDING RADIUS(REPEATED): 125 MM
- 2.4 RECOMMENDED COUPLING TORQUE: 7-10 IN-LBS
- 2.6 BENDING STABILITY: +/-5° @ 18 GHZ
- 2.7 AMPLITUDE STABILITY: +/-0.1 @ 18 GHZ

3. ENVIRONMENTAL:
TEMPERATURE RANGE: -40°C TO +85°C

4. MATERIAL AND FINISH:RAW CABLE,
- 4.01 AMROR: PTFE WIRE, BLACK+RED
- 4.02 FEATURES: SUPER LOW LOSS, FLEXIBLECONNECTORS(BOTH ENDS),
- 4.03 BODY: STAINLESS STEEL, PASSIVATED
- 4.04 COUPLING NUT: STAINLESS STEEL, PASSIVATED
- 4.05 CENTER CONTACT: BRASS, GOLD PLATED
- 4.06 DIELECTRIC: ENGINEERING PLASTIC, NATURAL



END-1 SMA MALE STRAIGHT

END-2 N TYPE MALE STRAIGHT

ONE LABEL POSITIONED IN THE MIDDLE, WHEN L1 < 1 METER
TWO LABELS POSITIONED AT BOTH ENDS, WHEN L1 ≥ 1 METER

CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

Attenuation (typical value@25ºC & VSWR=1.0)

Average power (typical value@40ºC & 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* √ FMhz+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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MEC Electronics and Communication Pvt Ltd
RF Products
Connectors, Cable Assemblies, Adaptors & Customization
E-mail: info@mec.org.pk Website: www.mec.org.pk

DESC: SMA Female Straight - N-Type Male Straight Cable Assembly

PN: MEC-RFCA-201-SMA(FS)-N(MS)-1Meter-A

** MS : MALE STRAIGHT
**FS: FEMALE STRAIGHT

SHEET 1 OF 1