

MD 18 : Low Loss Test & Measurement Cable

Part No. : MD18-AMAM-01.0M [SMA(M) to SMA(M)]

Features

Cable Assemblies feature excellent electrical performance up to 18GHz.

MPD Cable Assemblies are ideal for daily in components and assembly shops, Test labs and automatic test equipment applications.

Benefits

- Precise and constant measurement results
- Low overall measurement costs

Applications

- Test labs and Production lines
- Test procedures in components and assembly shops
- Automatic test equipment

Electrical Specification

- Impedance ----- 50 Ohms
- Operating Frequency ----- 18 GHz
- Velocity of propagation ----- 76%
- Capacitance ----- 87 pF/m (26.5 pF/ft)
- Insulation resistance ----- $> 5 \times 10^3 \text{ M}\Omega$
- Dielectric withstand voltage ----- 1,000 V rms
- Screening effectiveness ----- $> 90 \text{ dB}$

Materials and Finish

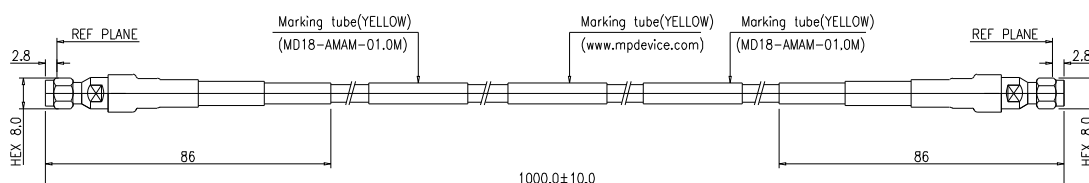
- Cable Jacket ----- FEP, Blue
- Cable dielectric ----- LDPTFE
- Marking sleeve ----- Polyolefin / Yellow
- Connector contacts ----- Beryllium-copper, gold plated
- Connector insulation ----- PTFE
- Connector body ----- Stainless Steel, gold plated
- Connector nut ----- Stainless Steel, gold plated

General Specification

- Assembly Length ----- 1M
- Cable diameter ----- 5.3 mm
- Temperature range ----- -30°C to $+80^\circ\text{C}$
- Preferred bending radius ----- 120 mm
- Connector retention force ----- $> 200 \text{ N}$
- Recommended mating torque ----- 0.8 Nm... 1.1 Nm
(7.1 ... 9.7 in.lbs)
- Connector Interface ----- MIL-STD-348A

Electrical Table

	up to 2 GHz	2.01 to 4 GHz	4.01 to 8 GHz	8.01 to 12 GHz	12.01 to 18 GHz
Min. Return Loss	30	28	25	21	19
Max. Insertion Loss at 25°C	< 0.5	< 0.8	< 1.1	< 1.4	< 1.6



DIMENSION