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astro ATM - test cables
astro-ATM
Special Superflexible Armored Test Cable Assembly
Product Description

The Astrolab ATM cable assembly offers a singular combination of mechanical durability and electrical stability. The unique construction of the armor jacket affords the ATM cable immunity to the effects of torque and the physical stress of a typical laboratory environment. The internal cable provides extremely stable attenuation and phase vs flexure performance up to 50 GHz.


Cable Information

Center Conductor	Silver plated OFHC Copper wire
Dielectric	Microporous PTFE Fluorocarbon
Inner Braid	Silver plated OFHC flat Copper wire braid
Barrier Layer	Polyimide/Aluminum tape
Outer Braid	Type 304 Stainless Steel round wire Extruded FEP per L-P-389
Armored Jacket	per Astrolab internal standard
Outer Jacket	Nylon

Connectors:

2.9mm Plug interface meets MIL-STD-348

Body	Steel, corrosion resistant per ASTM A582
Center Conductor	Beryllium Copper per ASTM B196
Insulator	Polyetherimide Resin (GE Ultem®)

Finish:

Body & Nut	Passivate per ASTM A-967
Center Conductor	Gold plated .000050 min. thickness per ASTM B-488 over Nickel plate .000050 min. thickness per ASTM B-689

Electrical Characteristics:

Nominal Impedance	50 ohms
Frequency	40 GHz max.
VSWR	1.25:1 max. at 12 GHz 1.30:1 max. at 18 GHz 1.40:1 max. at 40 GHz
Insertion Loss	2.20 dB max. at 18 GHz 3.50 dB max. at 40 GHz
Phase	2° typical 5° max. @ 40 GHz (wrapped 360° around a 2" radius mandrel)

Temperature Range: + 15° C to +35° C

Mechanical: Flexure greater than 100,000 cycles over a 3 inch bend radius

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