

P1DB50-24M24M-36

Precision test cable, 2.4mm male to 2.4mm male, Phase-Flex stable cable, 36 inch. Frequency DC to 50 GHz. VSWR 1.25 max. Insertion loss 3.7 dB max DC to 50 GHz.

Product Features

P1DB50-24M24M-36 is an ultra-stable RF test cable with excellent phase and amplitude stability when the cable is flexed.

The assembly is 36 inch and features armored low loss coax with an outer diameter 0.24 inch.

Connectors are stainless steel 2.4mm male.

Insertion loss for the 36 inch assembly is 3.7 dB max, DC to 50 GHz. VSWR 1.25 max.

The cable diameter is 6 mm (0.24 inch) and is armored with durable injection molded boots attaching the connectors.

Phase stability is +/- 5 degrees max and amplitude stability is 0.05 dB max.

Video showing phase and amplitude stability during cable flex:



Phase Stability vs. Flexure

Electrical Specification: $T_{\text{Ambient}} = 25^{\circ}\text{C}$

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		50.0 GHz	

Mechanical And Environmental Specifications:

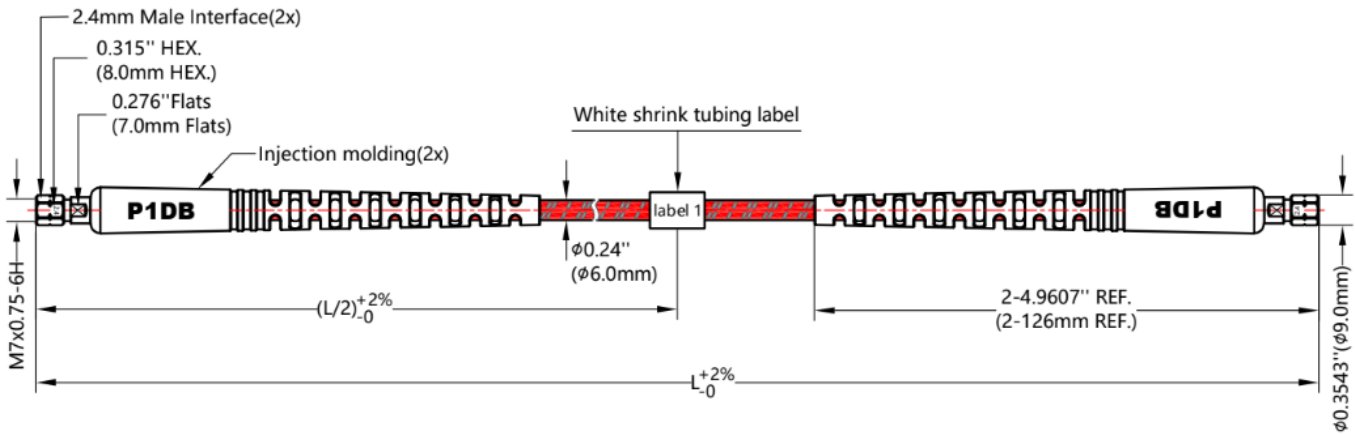
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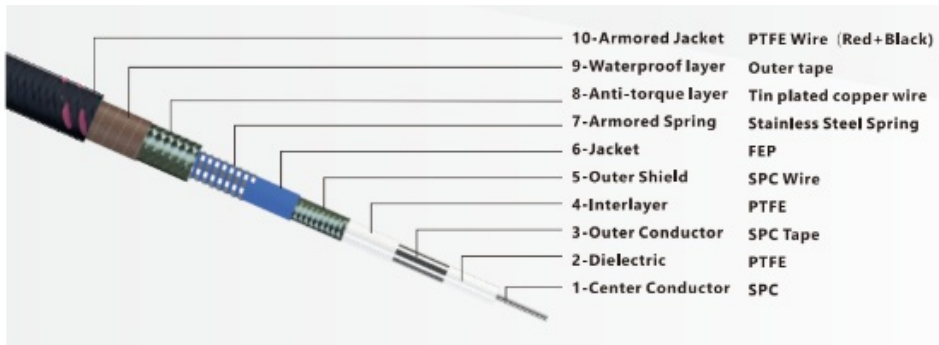


Parameter	Description	Notes
Connector 1	2.4mm Male	
Connector 2	2.4mm Male	
Coax Cable	Phase-Flex stable test cable	
Coax Diameter	0.24	
Length	36.0	
RoHS Compliance	Yes	

Drawing

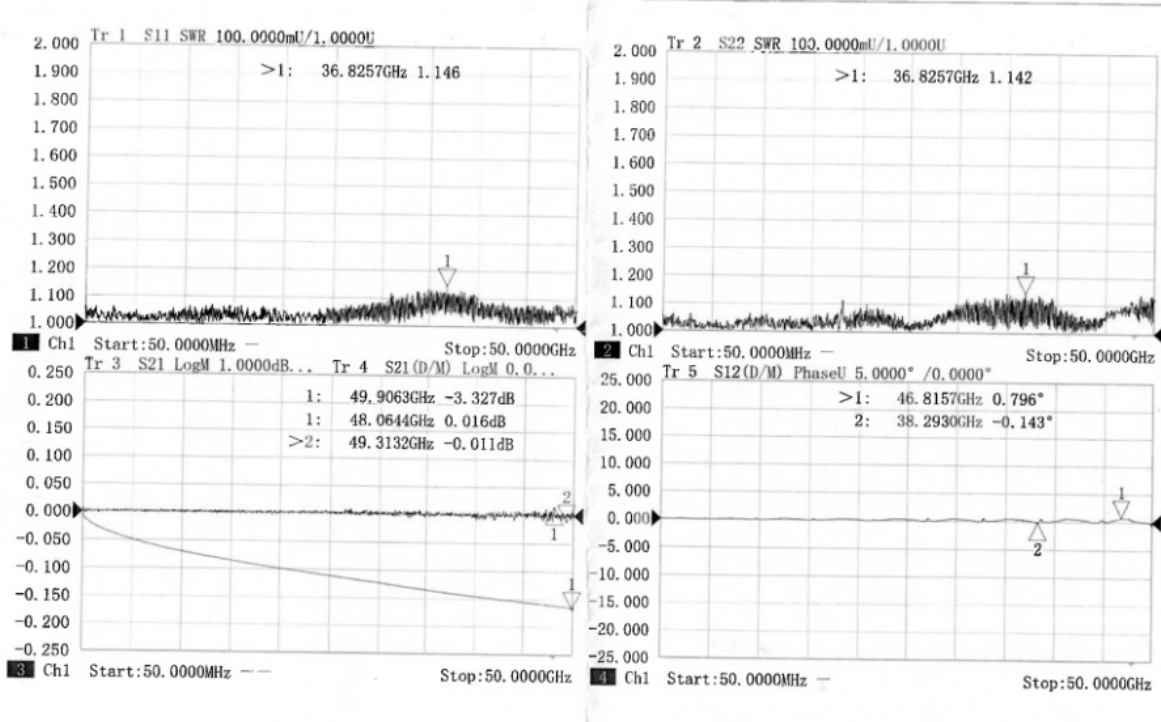


Graph



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Product Notes

Crush resistance >200 IB (100kg)

Flexure life cycles > 20,000

Mating cycles >5,000 (male connectors)

Min bend radius 1.18 inch (30 mm)

Operating temp -40 to +125 C.

Compare to Gore Phase-Flex & Maury StabilityPlus test cables.