P1CA-29M29M-400PT-1M

Precision test cable, 2.92mm Male to 2.92mm Male, 400PT Phase-Flex stable cable, 1 meter, operating to 40 GHz. Typical lead time is 4 weeks.



Product Features

P1dB's P1CA-29M29M-400PT-1M is a 50 Ohm precision test cable operating to 40 GHz. This high performance test cable provides excellent phase and amplitude stability during flexure. With 2.92mm stainless steel connectors, the assembly is 1 meter long and operates to 40 GHz. Typcial VSWR up to 40 GHz is 1.25 (1.35 maximum). Typical insertion loss to 40 GHz for this 1 meter assembly is 3.6 dB.

Phase stability vs flexure (degrees) for the 1 meter assembly is +/- 4.95 typical (7.90 maximum).

Amplitude stability vs flexure (dB) for a 1 meter assembly is +/- 0.06 typical (0.15 maximum).

Velocity of propagation is 74 %.

The cable outer diameter is 0.400 inch (10.4mm) and features a braided jacket over extra braided strength and crush resistance layers.

Electrical Specification: $T_{Ambient}$ = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		40.0	

Mechanical And Environmental Specifications:

Parameter	Description	Notes
Connector 1	2.92mm Male	
Connector 2	2.92mm Male	
Coax Cable	Phase-Flex stable test cable	
Cable Type	400PT	
Coax Diameter	0.400	
RoHS Compliance	Yes	

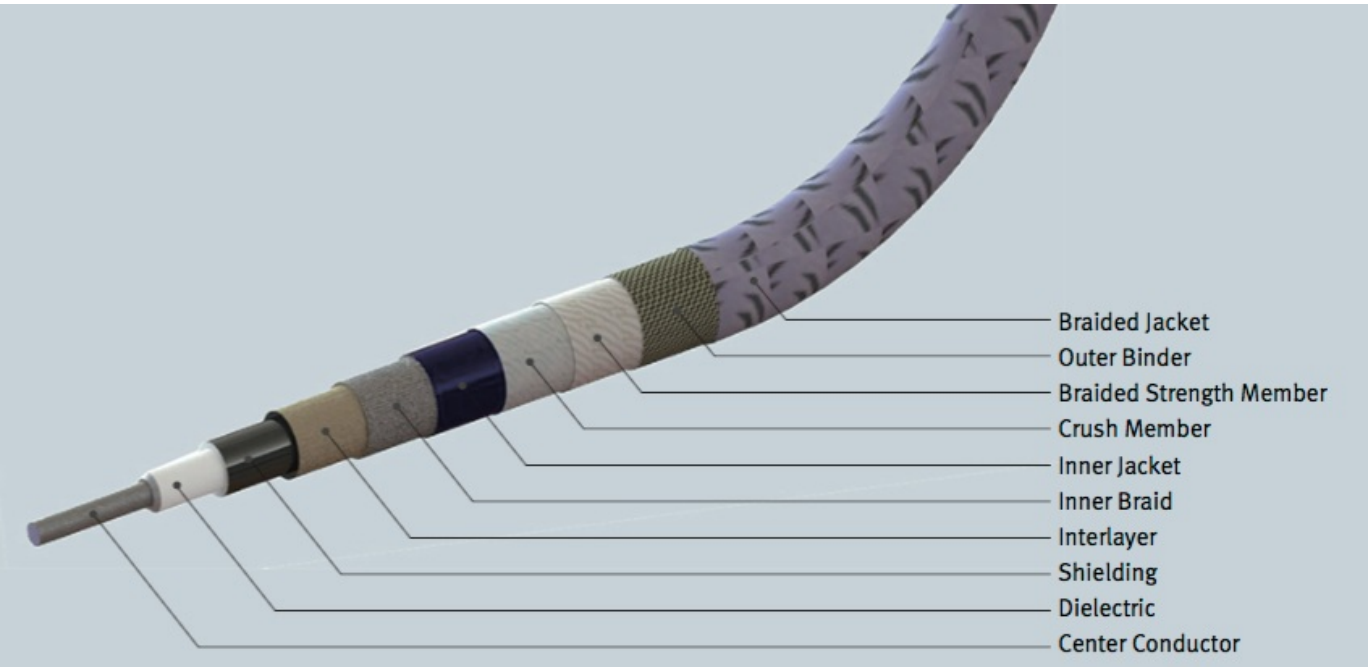
Drawing

P1dB, Inc. 188 Martinvale Lane, San Jose, CA 95119 +1(408)613-4857

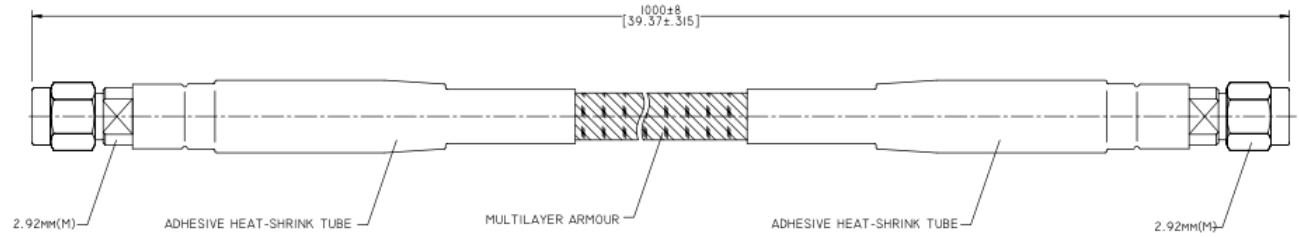
sales@p1dB.com

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Graph



MATERIAL & FINISH:
1 CONNECTOR BODY: STAINLESS STEEL, PASSIVATED
2 CONNECTOR CENTER CONTACT: BERYLLIUM COPPER ALLOY, GOLD PLATED
3 OUTER JACKET: MULTILAYER ARMOUR

ELECTRICAL DATA:
1 IMPEDANCE: 50 OHMS
2 FREQUENCY RANGE: DC-40 GHz
3 VSWR: 1.25 TYP. /1.35 MAX.
4 INSERTION LOSS: 3.7 DB TYP.
5 PHASE STABILITY: ± 4.95° TYP./ ± 7.90° MAX.
6 AMPLITUDE STABILITY: ± 0.06 DB TYP./± 0.15 DB MAX.

MECHANICAL DATA:
1 MAXIMUM OUTER DIAMETER: 10.4 MM
2 MINIMUM STATIC BEND RADIUS: 32 MM
3 MATING CYCLES: >5000
4 RECOMMENDED TORQUE: 0.9 NM.

ENVIRONMENTAL DATA:
1 OPERATING TEMPERATURE: -55℃~+125℃
2 STORAGE TEMPERATURE: -65℃~+165℃
3 A0;2011/65/EU(RoHS) AND 2015/863/(RoHS): COMPLIANT
4 1999/45/EC(REACH): COMPLIANT
5 CRUSH RESISTANCE: > 100 KG

Product Notes

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Crush resistance >200 lB (100kg)

Flexure life cycles > 20,000

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