

### P1dB cable assemblies









RFMW, Ltd. Is our exclusive sales and stocking distributor



# **P1dB Product History**

2004: Partnered with a high quality cable assembly manufacturer located in San Jose, Ca. and China - Partnered with RFMW, Ltd. as exclusive stocking distributor

Introduced low cost \$9.95ea Formable "Blue Jacket" 18 GHz cable assemblies

2-18 inches with high quality anti-torque, passivated stainless steel, SMA male hex coupling nuts on each end – (selling for about ½ the price of our competitors)

**2006:** Introduced low cost \$13.95ea and \$14.95ea Formable "Blue Jacket" 10 GHz cable assemblies 2-18 inches with **RIGHT ANGLE** anti-torque passivated stainless steel SMA hex coupling nuts

**2007:** Introduced custom built cable assemblies for unique customer applications with deliveries of 2-5 weeks from design to shipment

**2009:** Introduced low cost \$9.95ea RG-316 cable assemblies with **14 different RF coaxial connectors** up to 36 inches - (selling for about ½ the price of our competitors)

**2010:** Introduced low cost/high temp - 18GHz test cables for temperature chamber applications; built per customer specifications with 2-3 week delivery





#### **REPLACE SEMI-RIGID CABLES**

Same low price for ANY length up to 18 inches! Same unit cost for ANY quantity!

Lengths longer than 18" also available.

### SMA STRAIGHT CABLES:



#### PRODUCT SPECS

For 0.141" conformable straight SMAs each end:

maximum VSWR = 1.35:1 to 18 GHz maximum IL = 0.4 dB + 0.055dB/inch to 18 GHz

For 0.085" conformable straight SMA each end:

maximum VSWR = 1.35:1 to 18 GHz maximum IL = 0.4 dB + 0.1 dB/inch to 18 GHz



#### IDEC

- KEY FEATURES
  •100% VSWR tested
- ·Can be hand formed
- Reformable
- •SMA anti-torque
- ·Stainless-steel nut
- •2-18 inch length-fixed price
- •Up to 25-50% less than the price of similar cables of same quality
- ·Standard jacket color is blue

#### TYPICAL RF & MICROWAVE APPLICATIONS

- Test Equipment
- Portable Equipment
- Systems & Racks
- •Radar Equipment
- Base Stations
   Test Bench
- Antennas

2 CABLE DIAMETERS .085/.102 (OD) .141/.161 (OD)

SEE REVERSE SIDE FOR NEW SMA RIGHT ANGLE CABLES

> YouForm" cables can be manufactured and tested to your unique specifications.

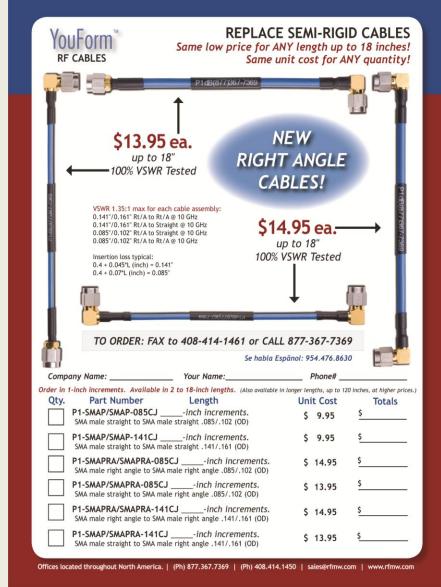
Visit our website for additional information www.rfmw.com/YouForm

> Visit RFMW's Booth at the MTT-S Show! Samples available to qualified users.

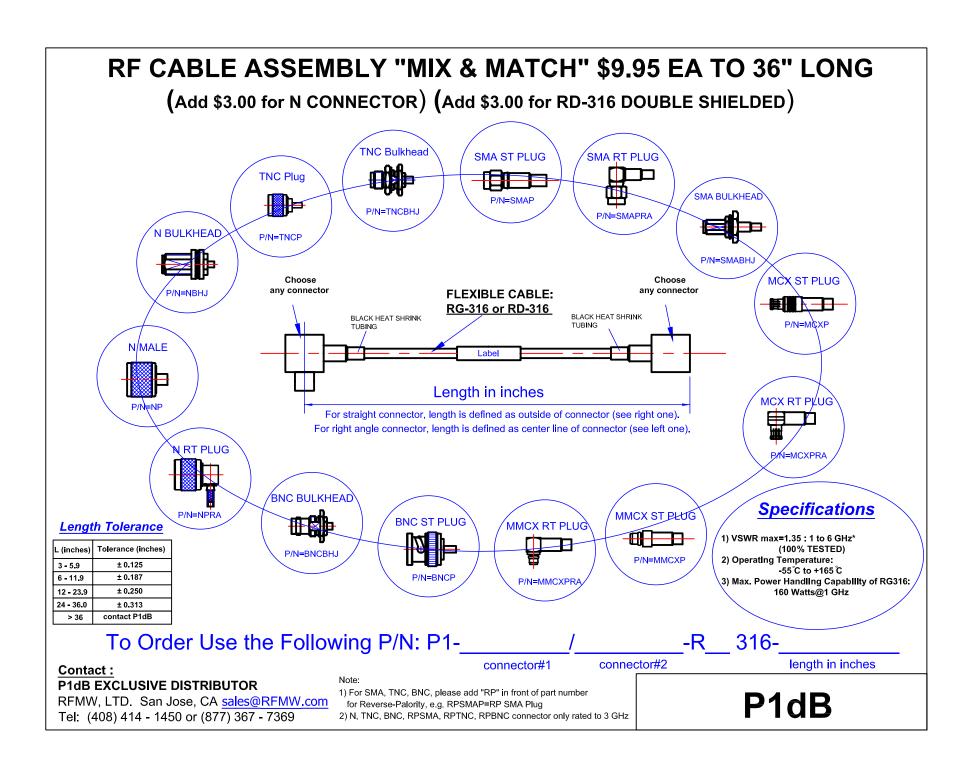


YouForm" — The Alternative to Semi-Rigid Coaxial Cables

RFMW, Inc. | Offices located throughout North America. | (Ph) 877.367.7369 | (Ph) 408.414.1450 (Fax) 408.414.1461 | Se habla Espānol: 954.476.8630 | sales@rfmw.com | www.rfmw.com







# **P1dB Product History (Continued)**

- 2011: Introduced SMA,/SMA, Male, Female and N/SMA,
   Male, Female family of Precision low cost Adapters
- 2011: Introduced Extended Boot option for P1dB RF Cable Assemblies
- **2012:** Introduced Low Loss/High Temp. 40 GHz AND 50 GHz Test Cables.
- 2012: Soon to Introduce MHF (U.FL) RF Cable Assembly "Mix & Match"





## N to SMA and SMA to SMA adapters



# Precision Stainless Steel N to SMA Adapters Mix and Match for the same low price \$13.95 ea



Part No. - Plane Market Market



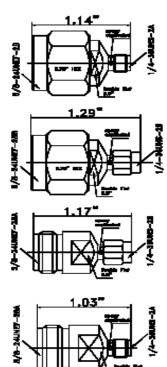
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#### Electrical (Typical)

- \* Impedance: 50 Ohms
- \* Frequency Range: DC 18 GHz.
- \* VSWIC:
- 1.25 : 1 (Max) for DC 18 GHz
- \* Operating Temp. Range: -65 °C -+125 °C

#### Mechanical (Typical)

\* Connector: Mates with MIL-STD-348

#### **Rolls Compliant: YES**



P<sub>1</sub>dB

### To order contact:

### RFMW, LTD.

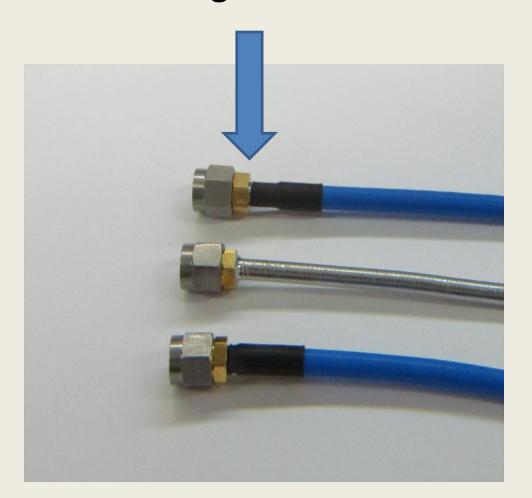
San Jose, CA

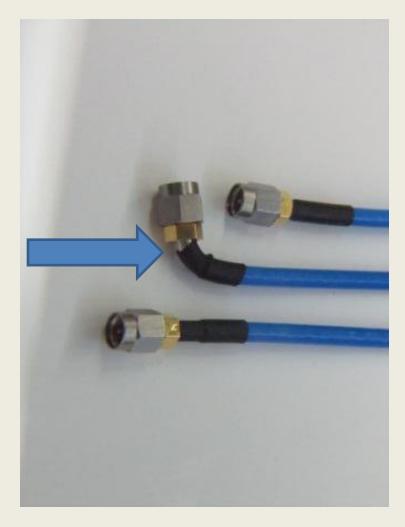
Tel: (408) 414 - 1450 or (877) 367 - 7369

Email: sales@RFMW.com Web: www.rfmw.com www.p1db.com



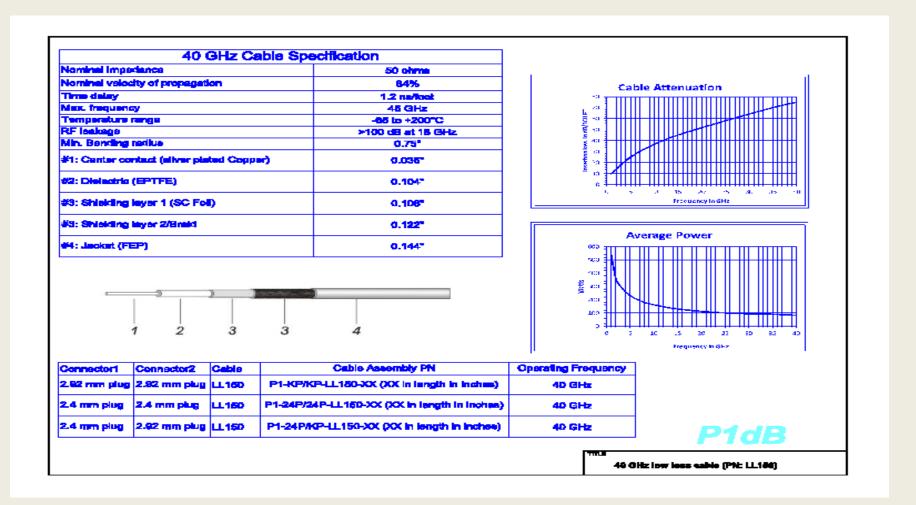
# **EXCLUSIVE** Tight Bends Without Outer Shield Breaking - Hand-Formable 18GHz Cable Assemblies





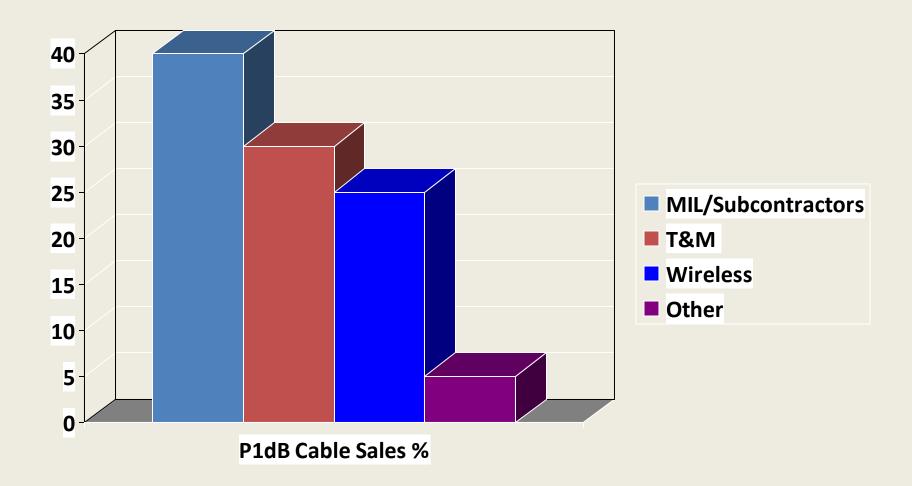


# 40GHz & 50 GHz Cables





# P1dB Cable Sales By Market





## **China (PRC) Partner Facility**

Location: Zhenjiang Jiangsu, China; New building, 2009 Construction

About 2 hours northwest of Shanghai

Facilities: 15,000 sq feet. Addition in 2012 to our specifications

Employees: 70 full time

Quality: ISO 9001:2008 Certified



# **PRC Facility**

ISO9001:2008









# RF Test and Induction Soldering PRC Facility







# Assembly Line PRC Facility







# **China Partner Facility**

### Extensive US (San Jose, CA) Design/QA control

Induction solder attach of connectors onto Formable and Semi-Rigid Cable

Automatic precision stripping of flexible cable using Swiss made Schleunigers

Pneumatic crimping of connectors onto flexible assemblies

Solder attach of pins onto cable center contact

100% Interface Gauge and Visual Inspection

100% RF test on 50 ohm assemblies

100% Hi-Pot and Continuity

100% Torque Test of SMA Male Cable End Connectors

Sample Mechanical Pull Tests (cable assemblies)

Plating thickness measurements via in house high-end Fischer XRF

Passivation Integrity Tests via in-house Salt Fog



# San Jose, CA. Partner Facility

- Quick Turns, Low Volume Military and Medical end-use.
- Inspection & Shipping Point
- Final Inspection for PRC Built Products
- Prototype Sample cables
- Design of all connectors and cable assemblies
- 2600 sq feet



# **P1dB Summary**

- Very Strong Financials. No debt.
- Standard cables in stock at RFMW, Ltd.
- Custom cables 3-5 week delivery
- Quick delivery capability 1-2 weeks ARO
- Custom Connector, Cable and Cable Assembly Design Capability
- Extensive RF and Microwave connector and cable product knowledge

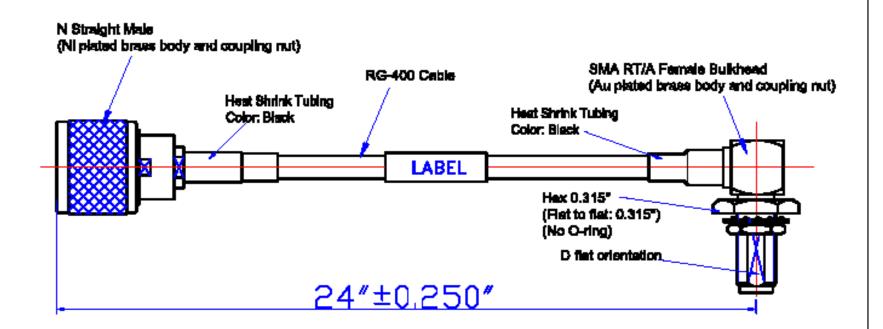


# Next Slides Are Custom Cable Assemblies

## **Featuring special connector designs:**

SMA female right angle bulkhead mount
SMA reverse polarity right angle male
TNC reverse polarity sealed female bulkhead
SMB Female Bulkhead (female center contact)
SMA female for .034 semi-rigid cable





#### Note:

- 1) Frequency Range: 806 869 MHz.
- 2) Labet Part number

#### Contact :

Pide **EXCLUSIVE DISTRIBUTOR** RFMW, LTD. Sen Jose, CA

sales@RFMW.com

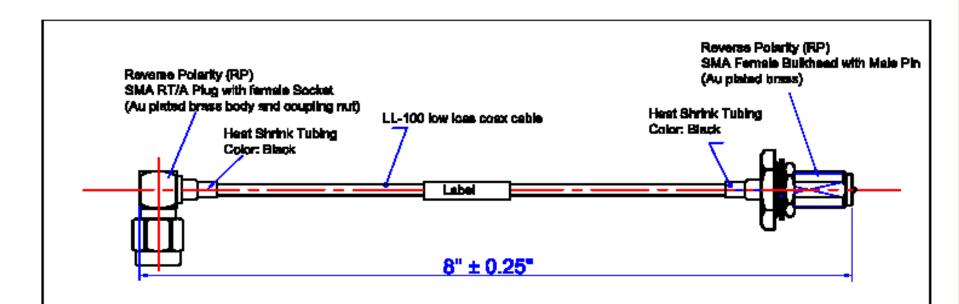
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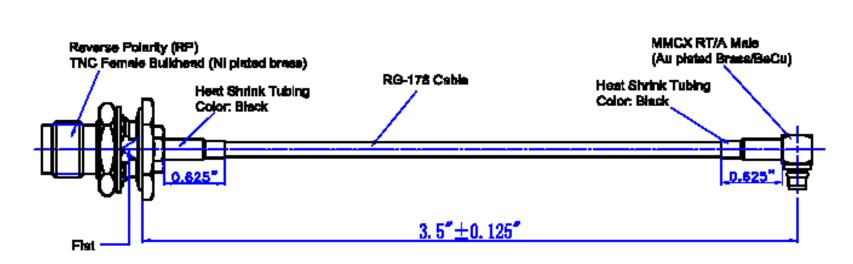




1) Frequency Range: DC - 3 GHz 2) Label: Part number



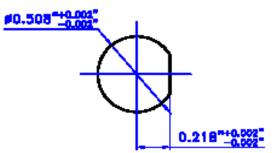
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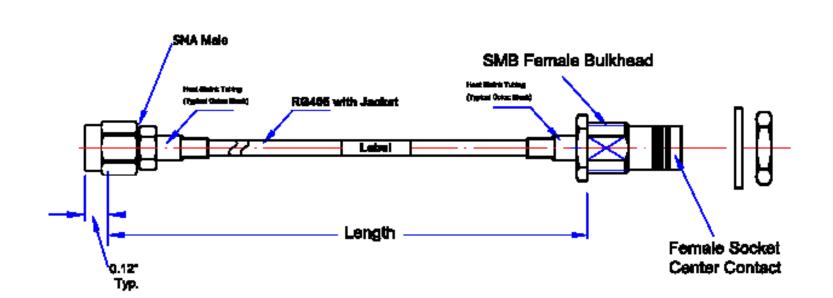
#### Recommendated Mounting Hole Dimensions



- 1) Frequency Range: DC 1 GHz
- 2) NO part number label on the cables/ p/n and date code label on bags only



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#### Note:

1) Frequency Range: DC - 3 GHz

2) Label: Part Number and Date Code

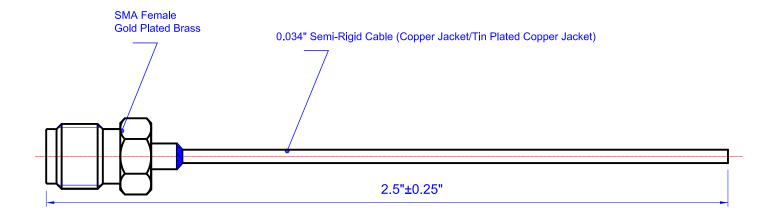
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### 0.034" Semi-Rigid Cable Assembly:

- \* 100% "go/no-go" VSWR test to 6 GHz
- \* 100% Hi-POT tested, Voltage = 500 volts
- \* Label: NO
- \* RoHS compliant

### 6 GHz RF Specifications @ 25°C

\* VSWR: Max. 1.35:1



#### Contact:

P1dB
EXCLUSIVE DISTRIBUTOR
RFMW, LTD.
San Jose, CA

sales@RFMW.com

Tel: (877) 367-7369

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# **P1dB Customers**







Discover What's Possible™

























