

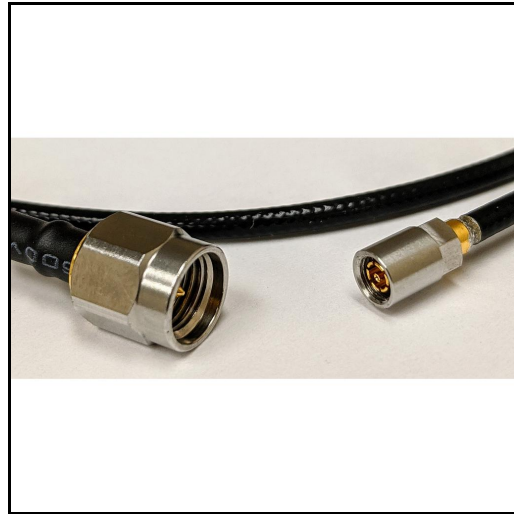
# P1CA-29MSMFT-F090-36

RF flexible cable assembly, 2.92mm male straight to SMPM-T (threaded) female straight, 0.090 inch flexible coaxial cable, 36 inch. Frequency is DC to 40 GHz with a 1.40 max VSWR.

## Product Features

P1CA-29MSMFT-F090-36 is a 50 Ohm flexible low loss cable assembly, 2.92mm male to SMPM-T (threaded) female straight. The assembly is 36 inch and frequency is DC to 40 GHz with a max VSWR 1.40.

P1dB's F090 cable is a flexible 50 Ohm cable with an outer diameter of 0.090 inch (2.3mm). The cable is constructed with low density dielectric (LD PTFE) for low loss at microwave frequencies. Bend radius is 0.6 inch (15mm). The cable has 2 shield layers for Effective Shielding >90dB.



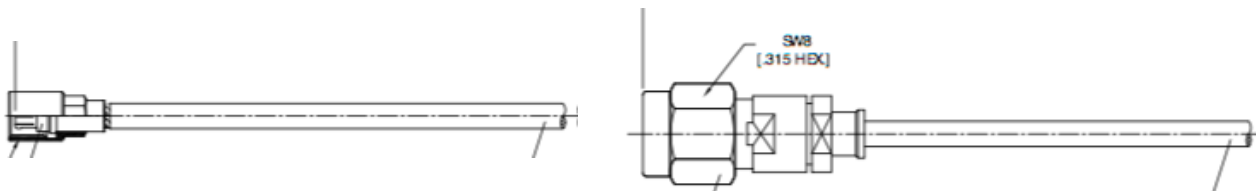
## Electrical Specification: T<sub>Ambient</sub> = 25° C

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

## Mechanical And Environmental Specifications:

| Parameter       | Description   | Notes |
|-----------------|---------------|-------|
| Connector 1     | SMPM-T female |       |
| Connector 2     | 2.92mm Male   |       |
| Length          | 36.0          |       |
| RoHS Compliance | Yes           |       |

## Graph



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|                 | Material  | Diameter |       |
|-----------------|---|----------|-------|
|                 |   | mm       | inch  |
| Inner Conductor | Silver Plated Copper  | 0.51     | 0.020 |
| Dielectric      | LD PTFE   | 1.60     | 0.063 |
| Outer Conductor | Spiral Wrapped Silver Plated Copper Tape+Silver Plated Copper Braid | 2.10     | 0.083 |
| Jacket          | Black FEP   | 2.30     | 0.090 |

### Electrical Characteristics

|                         |         |
|-------------------------|---------|
| Impedance               | 50 Ohms |
| Velocity of Propagation | 74%     |
| Shielding Effectiveness | >90 dB  |
| Cut-off Frequency       | 67 GHz  |
| Max. Operating voltage  | 0.5KV   |

### Mechanical Characteristics

|                                   |        |              |
|-----------------------------------|--------|--------------|
| Cable Minimum Static Bend Radius  | 15 mm  | 0.591 inch   |
| Cable Minimum Dynamic Bend Radius | 36 mm  | 1.417 inch   |
| Weight                            | 18 g/m | 0.012 lbs/ft |

### Environmental Characteristics

|                    |             |
|--------------------|-------------|
| Operating Temp(°C) | -55 to +165 |
|--------------------|-------------|



### Product Notes

Temp range -55 to +125 deg C.

Typical delivery is 4 weeks.