

## Annexure-I: Specifications of 10 Ohm Semi-Rigid RF Coaxial Cable

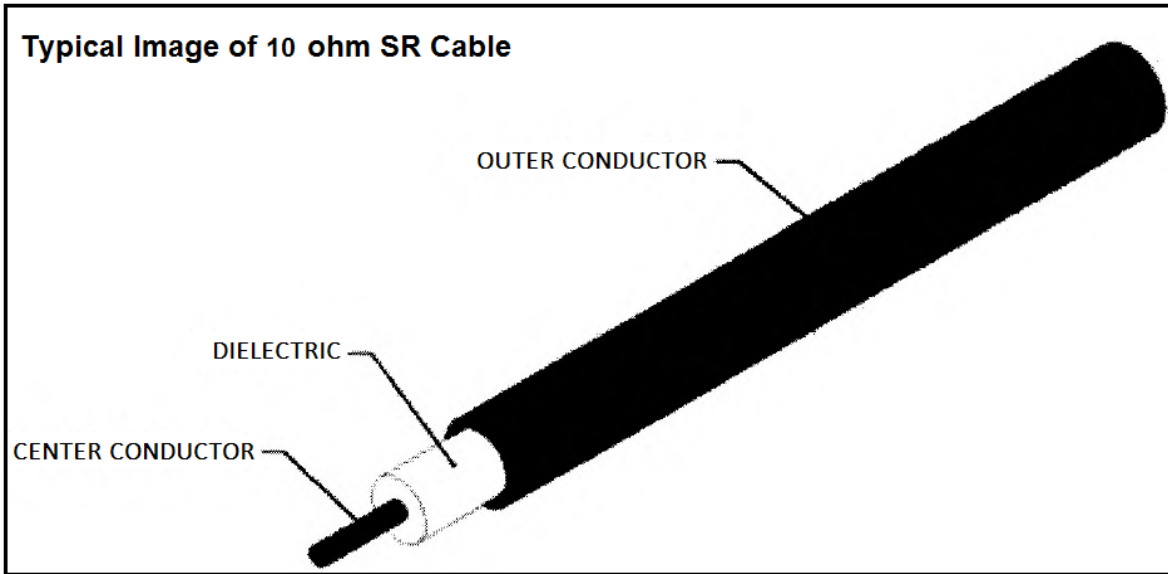
### Annexure-I: Specifications of 10 Ohm Semi-Rigid RF Coaxial Cable (2024001929 – Supply of Non 50 ohm Impedance Semi Rigid RF Coaxial Cables)

#### 10 ohm Semi-Rigid (SR) RF Coaxial Cable Specifications:

**Table 1: Required Performance of the SR RF Coaxial Cable**

<b><u>Electrical Characteristics</u></b>		
<b>S. No.</b>	<b>Parameters</b>	<b>Value</b>
1	Characteristic Impedance	10 +/-1 $\Omega$
2	Operating Frequency	DC – 51 GHz
3	Test Frequency Range	0.5 – 5 GHz
4	Insertion Loss	0.6 dB/feet Max. at 1 GHz
5	Average Power at 20 <sup>o</sup> C	38 W CW Min. at 1 GHz
6	Propagation velocity	70 %
7	Capacitance (typical)	147 pF/feet maximum
8	Min. Dielectric withstanding Voltage	975 Vrms @ 60 Hz
9	Min. Operating Voltage	475 Vrms @ 60 Hz
<b><u>Mechanical Characteristics</u></b>		
1	Outer Conductor Diameter (inch)	0.074 to 0.076 inch
2	Outer Conductor Material	Copper (Tin plating over Copper will be preferred)
3	Dielectric Material	Solid PTFE
4	Centre Conductor Diameter	0.0443 to 0.0463 inch
5	Centre Conductor Material	Silver Plated Copper (SPC)
6	Inside Bend Radius (minimum)	0.25 inch
7	Operating Temperature range	-40° to +110°C (minimum range)
8	Maximum Weight	22 grams/meter Max.
9	Minimum Straight Length	5 meter minimum

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**General Terms and Conditions to bid:**

S. No.	General Terms and Conditions	Vendor's Compliance
1.	Detailed datasheet covering all Electrical and mechanical details of the supplied SR cable part must be provided by the vendor.	
2.	Supplier / vendor should clearly indicate compliance or non-compliance along with the value to each of the requirement against the specifications as per table1.	
3.	The necessary details if any, pertaining to the SR cable shall be supplied as per following details:- a. Handling and storage information, b. Mounting, Assembly, Soldering/Fabrication information c. Any specific guideline/instructions,	
4.	The supplier must be either manufacturer or the authorized Indian agent of the manufacturer. The authorization certificate must accompany the quotation, failing which the offer will not be considered.	
5.	<b>Delivery schedule (Preferred)</b> : Within 12 weeks after PO placement. However, vendor may deliver devices early as per the stock availability.	
6.	Manufacturer/Supplier shall quote in slabs of 1-24, 25-49,50-74.	
7.	Supplied parts must be RoHS compliant.	
8.	All the necessary conditions mentioned above must be complied by the suppliers failing which, the offer may not be considered at all.	