

[Annexure-III: Specifications of 25 Ohm Semi-Rigid RF Coaxial Cable](#)

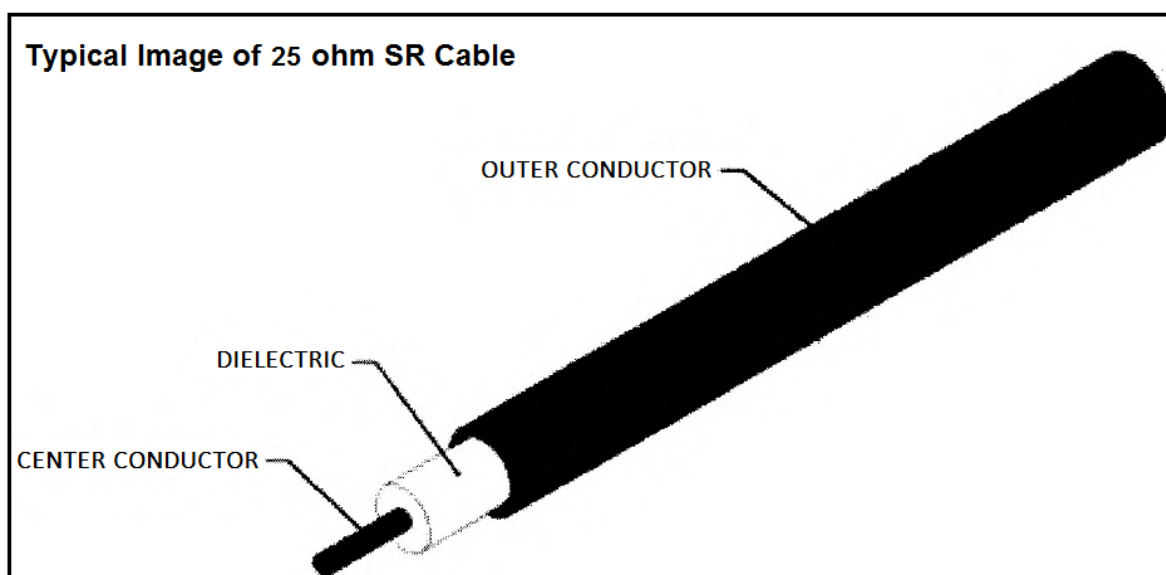
Annexure-III: Specifications of 25 Ohm Semi-Rigid RF Coaxial Cable (2024001929 – Supply of Non 50 ohm Impedance Semi Rigid RF Coaxial Cables)

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

Table 1: Required Performance of the SR RF Coaxial Cable

<u>Electrical Characteristics</u>		
S. No.	Parameters	Value
1	Characteristic Impedance	25 +/-1 Ω
2	Operating Frequency	DC – 46 GHz
3	Test Frequency Range	0.5 – 5 GHz
4	Insertion Loss	0.24 dB/feet Max. at 1 GHz
5	Average Power at 20°C	140 W CW Min. at 1 GHz
6	Propagation velocity	70 %
7	Capacitance (typical)	59 pF/feet maximum
8	Min. Dielectric withstanding RMS Voltage	3875 Vrms @ 60 Hz
9	Min. Operating RMS Voltage	1275 Vrms @ 60 Hz
<u>Mechanical Characteristics</u>		
1	Outer Conductor Diameter (inch)	0.089 to 0.091 inch
2	Outer Conductor Material	Copper (Tin plating over Copper will be preferred)
3	Dielectric Material	Solid PTFE
4	Centre Conductor Diameter	0.0393 to 0.0413 inch
5	Centre Conductor Material	Silver Plated Copper (SPC)
6	Inside Bend Radius (minimum)	0.125 inch
7	Operating Temperature range	-40° to +110°C (minimum range)
8	Maximum Weight	26 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 Table -1.	
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.	Delivery schedule (Preferred) : 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.	

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