

Government Of India
Bhabha Atomic Research Centre
High Pressure & synchrotron Radiation Physics Division
Purnima Laboratories, Mumbai

Ref: HP&SRPD/17/OPA/

Dated: 24-10-17

Due Date: 22-11-17

Sub: Minor fabrication – invitation of quotations for “Minor fabrication of Coaxial Cable with BNC connectors as specified.”

Dear Sir,

1. Quotations are invited for the minor fabrication job, as per the enclosed specifications.
2. Bidder shall quote for fabrication of these components with material.
3. Taxes and Excise duties shall be quoted separately. From ‘H’ shall be provided where necessary.
4. The quotation must reach to the Head, High Pressure & Synchrotron Radiation Physics Division before and must be sent in a sealed envelope, superscripted with the reference number and the due date given above.
5. The address on the envelopes should read:

**The Head, High Pressure & Synchrotron Radiation Physics Division
Bhabha Atomic Research Center
Purnima Labs, Trombay, Mumbai 400 085
Attn: D. S. Munda**

6. The bidder shall have to take an insurance policy against any material issued to him by the purchaser.
7. The fabrication work shall be subject to inspection by our representative. The finished components shall not be dispatched prior to approval by our representative at the bidder’s works. Necessary inspection facilities should be provided to our engineers during fabrication at bidders premises.
8. The bidder shall deliver the finished components and install it after approval by our representative, within one month from the date the firm purchase order issued to the bidder.
9. Head, High Pressure & Synchrotron Radiation Physics Division, BARC, reserve the right to accept/reject any or all quotations without assigning any reason.
10. Quote for each part separately.
11. The detailed drawing will be made available after issue of order.
12. Clarifications for executing the order can be sought after issue of order.
13. Quotation should invariably Contain **PAN NO.**, **VAT No.**, and **service Tax No.**
14. Quotation should be signed by authorized person with Company Seal.

(D. S. Munda)
SA/D, HP & SRPD

Specifications

1. BNC(M) to BNC(M) - With 1.5 meter RG178 Coaxial Cable: 20 Nos.
2. BNC(M) to BNC(M) - With 3 meter RG178 Coaxial Cable: 25 Nos.
3. BNC(M) to BNC(M) - With 1.5 meter F196LNTRX Coaxial Cable: 6 Nos
4. BNC(M) to BNC(M) - With 3 meter F196LNTRX Coaxial Cable: 6 Nos.
5. BNC(M) to BNC(M) - With 5 meter RG178 Coaxial Cable: 15 Nos.
6. BNC(M) to BNC(M) - With 10 meter RG178 Coaxial Cable: 15 Nos.
7. BNC(M) to BNC(M) - With 15 meter RG178 Coaxial Cable: 05 Nos.

RG178 Coaxial Cable Specifications:

1. No. of Strands: 7
2. Strand Size: 0.0040
3. Conductor Stranding: 7/.0040
4. Nom. Dia. of Cond.: 0.0120
5. Dielectric (in): 0.033
6. Nom. O.D. (in): 0.0710
7. Nom. Imp.: 50
8. Nom. Cap. (pF/ft): 29.4
9. Approx LBS/MFT: 9
10. Shield Material: Silver-Coated Copper
11. Cond. Material: Silver-Coated Copper Clad Steel
12. Dielectric Material: Polytetrafluoroethylene (PTFE)
13. Jacket Material: Fluorinated Ethylene Propylene (FEP)
14. Shield: Overall Braid Shield
15. Min. Temp: -55°C
16. Max. Temp: 200°C
17. Mil-Spec: M17/93-RG178
18. Voltage: 1000

F196LNTRIAX Coaxial Cable Specifications:

1. No. of Strands: 7
2. Strand Size: 0.10 mm
3. Conductor Stranding: 7 x 0.10
4. Primary core diameter: 0.97 mm
5. Inner & Outer braid strand diameter: 0.10 mm
6. Diameter over inner jacket: 1.95
7. Finished cable maximum diameter.: 2.95
8. Approx. Capacitance. (pF/meter): 97
9. Characteristics Impedance : 50 Ohm
10. Insulation resistance: >10000Mega ohm
11. Maximum voltage rating: 750 VAC
12. Conductor: Stranded silver plated copper covered steel
13. Coating: Low noise coating at the dielectric surface
14. Dielectric Material: PTFE taped & sintered
15. Jacket Material: PTFE taped & sintered, thickened: 0.25 mm
16. Shield: Round Braided Shield of silver plated copper wire

BNC Connector Specifications

1. Connector Body and Parts:	Brass
2. Male Contact Pin:	Brass
3. Commercial Grade:	Zinc Alloy/Brass
4. Outer Contact:	Brass
5. Socket Contact:	Beryllium Copper/Phosphor Copper
6. Crimp Ferrule:	Annealed Copper
7. Insulators, Standard Versions:	Teflon/Delrin
8. Rubber Gaskets:	Silicone Rubber
9. Plating:	Nickel (Silver Optional)
10. Impedance:	50
11. Frequency Range:	0-4GHz
12. VSWR:	1.30 Max.
13. RF Insertion Loss:	0.2 db Min. at 3 GHz
14. RF Leakage:	-55 db Min. at 3 GHz
15. Test Voltage (At Sea Level):	1500V rms
16. Working Voltage(At Sea Level):	500V rms
17. Insulation Resistance:	5000 Meg ohms Min.
18. Contact Resistance:	3 Milli ohms Max