

*Subject: Statement of Work for Twinax Cables for Data Transmission in Cryogenic Temperatures of DUNE*

**Background:**

Brookhaven National Labs (BNL) requires the purchase and delivery of twinax cables for data transmission in cryogenic temperatures associated with the DUNE (Deep Underground Neutrino Experiment) project. These cables are required to utilize THV (Tetrafluoroethylene, Hexafluoropropylene, Vinylidene Fluoride) material for cable extrusion in the construction of these cables. Extensive tests carried out by BNL have shown that only this type of material is acceptable given the cryogenic temperature utilized (77K).

**Schedule:**

Two types of cables will be procured in the order stated in the contract:

- 1) 1,750 pieces of 22 m cables with part number of HDR-223199-02-ECDP
- 2) 2,200 pieces of 27 m cables with part number of HDR-227794-03-ECDP.

Signature: \_\_\_\_



\_\_\_\_Hucheng Chen\_\_\_\_10/18/2024\_\_\_\_ Of Requestor