

FY19 eRate Cable Project

The [REDACTED] is requesting pricing to provide and install new Ethernet cables, jacks, patch panels and fiber cables throughout six schools. The project requires that Cat6 cables be run in pairs to locations throughout the schools. Each classroom will have four Cat6 cables while administrative “work areas” will have at least two Cat6 cables. Single Cat6a cables will also need to be run to a number of locations. The Cat6a cables will need to be terminated in RJ45 jacks in the ceiling for wireless access point connectivity. Some of the schools will require armored OM4 fiber cables to be run to connect the data closets. The Contractor must provide separate pricing for each of the following schools. The fiber and Ethernet prices must be separate as well. Materials for this project should be the same or equal to the following vendors: Belden, Mohawk, Leviton, Hitachi, Panduit, Hubbell, Corning, Siemens and Superior Essex.

[REDACTED] Elementary School:

- Cat6: 224, run in pairs to 112 locations (including 1 one foot patch cable for each run)
- Cat6a: 33 cables (including 1 three foot and 1 one foot patch cable for each run)
- Network racks: 1 two post and 1 four post

[REDACTED] Elementary School:

- Cat6: 280, run in pairs to 140 locations (including 1 one foot patch cable for each run)
- Cat6a: 49 cables (including 1 three foot and 1 one foot patch cable for each run)
- Network racks: 1 two post and 1 four post

[REDACTED] Middle School:

- Cat6: 622, run in pairs to 311 locations (including 1 one foot patch cable for each run)
- Cat6a: 73 (including 1 three foot and 1 one foot patch cable for each run)
- Armored OM4 24 strand fiber cables: 3
- 24 strand 10 Gigabit OM4 fiber cassettes: 6
- Fiber cassette enclosures: 4
- OM4 Fiber patch cables: 6
- Network racks: 1 four post

[REDACTED] Road School:

- Cat6: 186, run in pairs to 93 locations (including 1 one foot patch cable for each run)
- Cat6a: 23 cables (including 1 three foot and 1 one foot patch cable for each run)
- Network racks: 1 four post

[REDACTED] Elementary School:

- Cat6: 234, run in pairs to 117 locations (including 1 one foot patch cable for each run)
- Cat6a: 34 (including 1 three foot and 1 one foot patch cable for each run)
- Armored OM4 24 strand fiber cables: 2
- 24 strand 10 Gigabit OM4 fiber cassettes: 4
- Fiber cassette enclosures: 3
- OM4 Fiber patch cables: 4
- Network racks: 2 two post and 1 four post

[REDACTED] Middle School:

- Cat6: 422, run in pairs to 211 locations (including 1 one foot patch cable for each run)
- Cat6a: 47 (including 1 three foot and 1 one foot patch cable for each run)
- Armored OM4 24 strand fiber cables: 1
- 24 strand 10 Gigabit OM4 fiber cassettes: 2
- Fiber cassette enclosures: 2
- OM4 Fiber patch cables: 2
- Network racks: 1 four post

The Contractor will be responsible for providing and installing all necessary cable hooks/trays, conduit and Cat6/Cat6a cables from the data closets to multiple locations on each floor so all cables can be suspended above the ceiling tiles. The Contractor will install conduit from the hall into all rooms. The Contractor will provide and install Ethernet jacks and face plates at each location. The contractor will provide 1ft Cat6 and Cat6a patch cables for connecting network switches to the new patch panels in the data closets as well as a 3ft Cat6a patch cable at each access point location. The Contractor will also be responsible for all coring.

The Contractor will be responsible for providing and installing conduit, grounding blocks, network racks and cable trays in data closets. All network switches, fiber transceivers and UPS devices (battery backup) will be installed/configured as part of another project.

The Contractor will be responsible for labeling and testing all new Ethernet and fiber connections. The Contractor will also be responsible for removing all existing Ethernet cables, fiber cables, jacks and patch panels.

All installation materials furnished and installed by the Contractor shall be fully guaranteed against defects in materials and workmanship for a minimum period of one (1) year after final acceptance by the [REDACTED]. Defective items must be replaced free of charge. A complete list of materials (with part numbers) must be provided with the pricing and all materials must be verified by the [REDACTED] Technology department prior to installation.

Cat6 Work:

The Contractor will be responsible for installing dual port Cat6 data lines for connecting District devices to data closets. Each location will have two Cat6 jacks. Classrooms will have two jacks in two different locations while administrative “work areas” will have at least two jacks in each location.

The Contractor will be responsible for providing blue modular patch panels for wiring to terminate back to the data closets as well as one foot blue Cat6 patch cables.

Cat6a Work:

The Contractor will be responsible for installing single port Cat6a data lines for connecting wireless access points to data closets with several feet of additional slack at the access point locations and terminate each cable with an RJ45 jack at the access point locations. The Contractor will be responsible for providing three foot white Cat6a patch cables at each location. The Contractor will be responsible for providing black modular patch panels for wiring to terminate back to the data closets as well as one foot black Cat6a patch cables.

Fiber Work:

The Contractor will be responsible for installing twenty four strand armored OM4 pre terminated fiber cables at three schools to connect IDF closets to the MDF. The Contractor will be responsible for providing and installing ten Gigabit twenty four strand OM4 fiber cassette modules and enclosures in each IDF and MDF. The Contractor will be responsible for providing the necessary OM4 fiber patch cables.

The District requires this work to be completed during summer vacation. Floor plans containing data closet and jack locations have been provided.