



# TOP NINE CONSIDERATIONS

WHEN PLANNING A DATA CENTER PROJECT

### 1. Burn-through

Burn-through can be a detriment to data center projects due to the amount of cable and wiring involved in the project. How will you address burn-through?

When beginning a project, consider specifying a product like fiberglass conduit elbows that do not burn-through like PVC conduit, thus preventing costly repairs. Durable fiberglass conduit that is not susceptible to burn-through protects cable and minimizes repairs.



## 3. Conductivity

Considering the amount of wire and cable in data center projects, electrical conductivity deserves special consideration. Unlike galvanized rigid steel and PVC-coated steel, fiberglass conduit acts as an excellent insulator keeping installers safe from electrical injuries.

#### **2.** Cable Fault

How will the conduit in your data center project stand up against cable fault? Cable replacement is easy in data centers with fault-resistant conduit.

When comparing PVC, galvanized rigid steel, PVC-coated steel and aluminum, fiberglass conduit is the only conduit that does not melt or weld the wire to the inside of the conduit, allowing cables to be easily pulled-through for replacement and repairs. Fiberglass conduit ensures long-term protection for data centers.







Are there any special installation concerns in your data center project? Will the conduit be direct buried, encased buried or installed above ground?

Fiberglass conduit boasts the lightest weight out of PVC, galvanized rigid steel, PVC-coated steel and aluminum. This makes for not only a smooth installation, but also easy transportation to the site and portability in the field. Additionally, ease of cutting and integral bell means faster installation. In most size categories, fiberglass conduit installs faster than PVC, galvanized rigid steel, PVC-coated steel and aluminum, per the NECA Manual of Labor Units.

# **6.** Elbows in many radii

Got a complex project, requiring various sizes of radii?

Conduit elbows play a key role in bringing underground wire and cable to surface and upper levels of data centers with stub-ups. For problem-free specifying, look for a provider offering the flexibility of a variety of radii. Some conduit providers even offer expedited shipping for elbows so they are ready in 48 hours.





#### 7. Cost

Would you like to stay within budget and save money on your project? Because of its light weight, easy installation, and lower upfront costs, fiberglass conduit typically translates into significant cost savings.



Fewer materials required translates into cost savings.



# 8. Protect High-tech

In-the-know engineers, project owners and contractors depend on fiberglass elbows' ability to withstand cable burn-through, tolerate electrical faults and guard against underground corrosion. Data center designers appreciate the cost efficiency of the product and its

installation. For data centers, fiberglass elbows offer a durable, cost-efficient product companies can trust to safeguard assets.





