



How Fiberglass Conduit Offers Solutions in Challenging Cabling Environments

From damp and caustic environments to high occurrence of elbow burn-through when pulling cable, many industries face electrical cabling challenges. Fiberglass conduit offers a solution designed to help meet performance requirements, increase safety and lower installation and material costs in a variety of applications.

Here's how fiberglass conduit performs successfully in challenging environments like wastewater treatment facilities, data centers and chemical plants:

Wastewater Treatment Plants Benefit from Superior Corrosion Resistance

Few industrial environments are as damp and caustic as wastewater treatment facilities, which invite corrosion and require frequent, costly conduit replacement. Fiberglass conduit counteracts these challenges by offering longer life, lighter weight and chemical resistance.

Fiberglass conduit lasts up to three times longer than PVC-coated steel, allowing more cost savings over the life of a project. Its lighter weight and ease of handling make it easier to install than heavier rigid conduit.

Fiberglass Elbows Beat Burn-Through in Data Centers

In data centers, burn-through is a very real concern due to the large volume of cable in this hi-tech environment. Fiberglass elbows eliminate burn-through which prevents costly repairs. Fiberglass elbows are coveted for having one of the lowest coefficients of friction of any in-market conduit product. This promotes smooth, easy pulls. Lastly, fiberglass conduit is fault-resistant so the cable will not melt or weld to the conduit. This also allows for easy pull-through, and prevents costly repairs unlike other in-market conduit options.

Flame-Resistant for Harsh Environments like Chemical Plants

In the hazardous environment of petrochemical and chemical plants, flame resistant conduit like Champion Fiberglass Haz Duct® XW Type is constructed to withstand Class I, Division 2 conditions, as well as contribute to plant and personal safety. It is manufactured to withstand temperatures ranging from -60° F to +250° F. Haz Duct® XW offers a lightweight, non-metallic solution that is durable enough to withstand the demands of this tough environment.

For Special Environments and Projects, Champion Fiberglass Conduit Offers Product Customization

- Customization and product specifications are utilized across industry. Standard conduit lengths are 10 and 20 feet.
- All conduit sections are provided with belled ends with no couplings required for straight sections. Conduit bodies with threaded hubs are available upon request.
- Standard and long radius elbows are available. Special radii are available upon request.
- As for colors, standard conduit is black and gray. Custom colors and designs are available as well.

Listings, Standards and Certifications for Fiberglass Conduit

There are many conduit choices for your next project. Champion Fiberglass conduit is a brand you can trust. It is UL listed across several product lines.

Champion Duct® listings and standards include:

- UL Listed for expanded support spacing distances
- UL 2515 Listed for above-ground installations
- UL 2420 Listed for below-ground installations
- CSA listed per CSA 22.2 No 211.3-96

Champion Haz Duct® UL Listings & Standards include:

- UL Listed for extended support spacing distances
- Approved for use in Class I, Division 2 and Zone 1, Division 2 applications in the U.S. and by the Canadian Electrical Code (CEC) for Zone 1, Division 2 installations
- Listed by The National Electrical Code (NEC) in Article 355 as Reinforced Thermosetting Resin Conduit and The Canadian Electrical Code (CEC) in Article 12-200 of the CEC as Rigid RTRC Conduit

Many Benefits Across Varied Industries

Fiberglass conduit provides solutions for challenging cabling environments in many industries and applications. From wastewater plants to data centers to chemical plants, Champion Fiberglass conduit offers substantial benefits over other conduit types like PVC-coated steel and GRC due to its light weight, cost efficiency and corrosion resistance.

NOT JUST TOUGH. CHAMPION FIBERGLASS TOUGH.

For over 30 years, we've challenged ourselves to design and deliver products that withstand the harshest environments. Get a Champion on your side – and conduit products that:

- Combat Corrosion.
- Fight Fire.
- Beat Burn-Through.

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