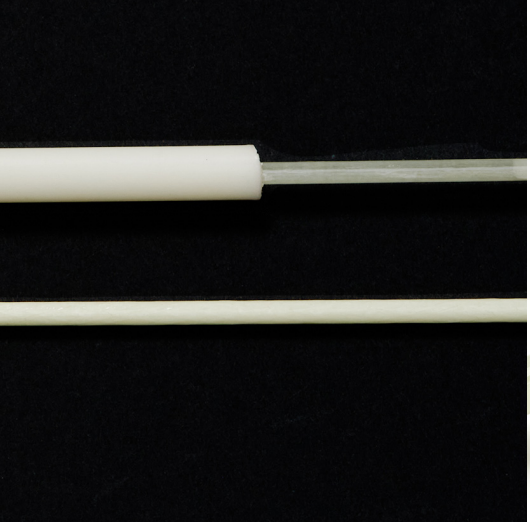

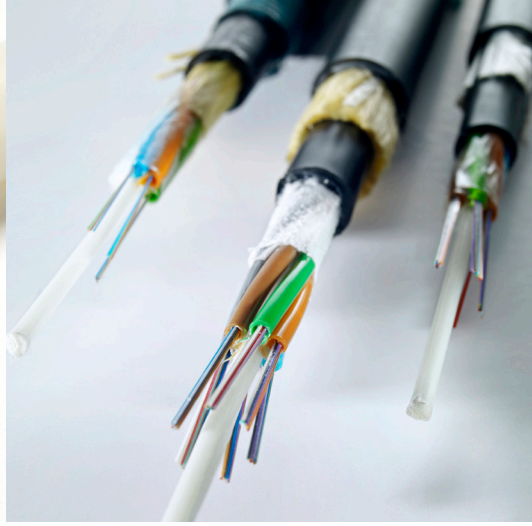

PRODUCT BULLETIN

Fiber-Line™ Fiber Reinforced Polymer Rods

If high-strength, lightweight performance is critical to your cable application, Fiber-Line™ fiber reinforced polymer (FRP) rods—also known as glass reinforced polymer (GRP)—deliver where it counts. At their core, these rods combine high-strength glass fibers with specialized proprietary resins, using resin chemistry optimized for process conditions, fiber adhesion and the specific demands of each end-use application.

The resin-impregnated fibers are cured with thermal or ultraviolet energy to form a highly cross-linked thermoset matrix, yielding a rigid, durable rod with exceptional mechanical integrity. For loose tube cable designs, optional polymer up-jacketing—available up to 12.0 mm in common resins including MDPE, HDPE, PVDF, PVC and Nylon—adds further protection. Low smoke, low halogen, flame-rated and custom color options are available to meet your exact specifications.

The fibers used in Fiber-Line FRP include fiberglass, aramid, and carbon fiber. They are supplied on either wood or plastic reels in multiple lengths.

Fiber-line FRP rods can also be coated with Swellcoat® Water Absorbing Protection for enhanced water blocking properties as well as adhesive coatings for polyethylene and PVC, to help prevent cable failure.

KEY CHARACTERISTICS

- Sizes Available: 0.7 mm–5.00 mm
- Dielectric (excluding carbon)
- Additional up-jacketing available up to 12 mm
- Oval shapes available
- Splicing/respooling services available

MARKETS AND APPLICATIONS

- Fiber optic cable strength member and specialty industrial applications

Product ID	Fiber-Line Coating	Base Fiber	Break Force (N)	Load at 1% Elongation (N)	Absorption Capacity (g/m)
2.3 mm FRP	Swellcoat water absorbing protection	Fiberglass	≥ 5115	≥ 2100	2.5–4.5
5.00 mm FRP	N/A	Fiberglass	≥ 24041	≥ 9617	N/A

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