Swellcoat™ Water Blocking & Absorbing Yarns

Swellcoat™ impregnated fibers introduce Super Absorbent Polymer (SAP) into fiber optic cable binders, fillers, and buffer threads to create a stable gel that can absorb up to 100x its weight. Our technology prevents moisture ingress, enabling a 100% dry-dry cable design.

Swellcoat Blocker yarns provide water-blocked strength reinforcements for cable designs and can absorb up to 15x its weight.

Swellcoat yarns are engineered to protect optical fibers against the damaging effects of water penetration in cable applications. Formulated to install cleanly and efficiently, they eliminate the need to deal with messy gels.

KEY FEATURES
- Swellcoat can be applied to any yarn in fiber optic cable
- Precision wound for optimal cable production speed
- Single & dual ends available
- Low dust
- Replaces messy gels
- High stability package allows for higher output

FIBER-LINE™ FIBERS SUITABLE FOR WATER BLOCKING YARN
- Para-Aramid
- PET Polyester (standard, low, ultra low shrink) fiber
- Liquid Crystal Polymer (LCP)
- Fiberglass
- Dyneema® Ultra-High Molecular Weight Polyethylene (UHMWPE)

FIBER-LINE PERFORMANCE-ADDITIVE COATINGS
- Swellcoat Coatings: water absorbing protection
- Swellcoat Blocker: blocks water migration
- Non-wick/Anti-wick Coatings: water resistant shield

FIBER-LINE WATER BLOCKING APPLICATIONS
- Binder yarn
- Buffer tube thread
- Filler yarn
- Ripcords
- Strength members
SUSTAINABILITY SPOTLIGHT
The simplicity of installing Swellcoat yarns for fiber optic cable manufacturing reduces scrap and energy use without sacrificing protection against water penetration. Once manufactured, fiber optic cable designed with Swellcoat yarns is more reliable and can be installed cleanly and efficiently.

PACKAGING
Swellcoat Water Blocking & Absorbing Yarns and the flat, uncoated binder yarns are supplied on a variety of colored, embossed, and/or slit cardboard tubes to meet a variety of equipment needs. Precision wound packages yield the greatest length per package, provide solid package stability, and ensure minimum ballooning at speeds reaching 4000 RPM. Contact us today with tube dimensions you require. Plastic or metal reels are also available.

MATERIALS MADE IN AMERICA BY AMERICAN COMPANIES
Avient manufactures engineered fiber solutions for fiber optic cable manufacturing through its subsidiary Fiber-Line, LLC. Five of Avient’s nearly 50 U.S. facilities currently provide fiber optic cable plastics, polymers, and components which are ultimately used to enable the expansion of broadband internet access. Avient is well-positioned to continue to supply the demand for domestically manufactured products.

For over 35 years, Avient’s Fiber-Line business has provided science-driven expertise that improves the performance and functionality of high performance fibers. Our products extend the life of fiber optic telecommunication cables, enable the search for new energy reserves, and reinforce components for industrial operations. Our products add important characteristics, such as water-blocking, water repellence, adhesion, color, and wear & UV-resistance to these and many other applications. We believe that our ongoing commitment to be a leading sustainable organization and to remain at the forefront of fiber and coating technology will continue to drive the success of our customers, shareholders, and employees.

For more information, contact us today with tube dimensions you require. Plastic or metal reels are also available.

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