

# ONE-STOP FIBER OPTIC CABLE MATERIALS SUPPLIER

FRP • Aramid Yarn • Water Blocking Yarn  
Fiberglass Yarn • Ripcord • Polyester Yarn



FRP

Aramid Yarn

Water Blocking Yarn



# About Us

Specialized in Optical Cable Materials & Fiber Optic Solutions



**We specialize in optical cable materials and fiber optic communication products.**

Our main products include FRP Strength Member, Aramid Yarn, Water Blocking Yarn, Fiberglass Yarn, and Other industrial materials.

With stable factory resources and industry experience, we provide reliable one-stop supply solutions for global optical cable manufacturers.



### Factory Supply

Real factory, stable supply capacity.



### OEM Available

Support customized solutions and OEM service.



### Stable Quality

Strict quality control system, consistent and reliable.



### Fast Delivery

Efficient production and on-time delivery.



### Export Experience

Rich export experience, serving global partners.



### One-Stop Solution

Full range of optical cable materials, one-stop supply.

# CORE OPTICAL CABLE MATERIAL SYSTEM

# 03

PRODUCT SYSTEM

One-Stop Supply of Fiber Optic Cable Raw Materials

## 01 Strength Member Materials

- FRP Strength Member
- AFRP (Aramid FRP)
- Aramid Yarn
- Carbon Fiber



## 02 Water Blocking System

- Water Blocking Yarn
- Water Blocking Tape



## 03 Cushion & Wrapping Materials

- Fiberglass Yarn
- Non-woven Fabric (25mm, 0.1-0.2mm)
- Silk Non-woven Fabric



## 04 Auxiliary Materials

- Ripcord
- Polyester Yarn



Complete material system for optical cable manufacturing.

# CORE STRENGTH MATERIALS

High Performance Reinforcement Solutions for Fiber Optic Cables



## FIBER REINFORCED PLASTIC (FRP) RODS

Tensile Strength

≥1100N

- Excellent Flexibility
- Lightweight
- Stable Performance
- Moisture Resistant



### Application

FTTH Cable / ADSS Cable / Drop Cable



## ARAMID REINFORCED PLASTIC (AFRP) RODS

Tensile Strength

≥1600N

- Higher Strength Performance
- Excellent Mechanical Properties
- Enhanced Reinforcement
- Suitable for High Strength Optical Cable



### Application

ADSS Cable / Outdoor Fiber Cable / Special Reinforced Cable

# PARA-ARAMID YARN

High-Strength Reinforcement Fiber for Optical Cable Applications



D-Tex	Breaking Strength	Elongation
200D	42 ± 2 N	3.0 ± 0.5%
840D	176 ± 9 N	3.5 ± 0.3%
1500D	320 ± 16 N	3.5 ± 0.3%
<b>3000D</b> <small>High Strength Grade</small>	<b>689 ± 34 N</b>	<b>3.5 ± 0.3%</b>



## COLOR OPTIONS



Yellow (Standard)



Black Aramid Yarn



Custom Color Available



## SUPPLY CAPABILITY



Stock available for standard specifications



Small MOQ supported



Fast delivery from warehouse



Stable long-term supply

# WATER BLOCKING SYSTEM

Moisture Protection Solutions for Fiber Optic Cables



Water swellable yarn is used to water block cables in fresh water and saltwater for subsea applications.

Size	Moisture Content	Tensile Strength
300D <small>Low Moisture Grade</small>	≤6%	≥8N
600D	≤9%	≥20N
1500D	≤9%	≥60N
2000D	≤9%	≥80N
3000D	≤9%	≥100N



## FEATURES:

- Excellent water swelling performance
- Stable moisture resistance
- Suitable for harsh environments
- Reliable long-distance cable protection

# WRAPPING & CUSHION MATERIALS

Protection Layer for Fiber Optic Cable Structure

## FIBERGLASS YARN



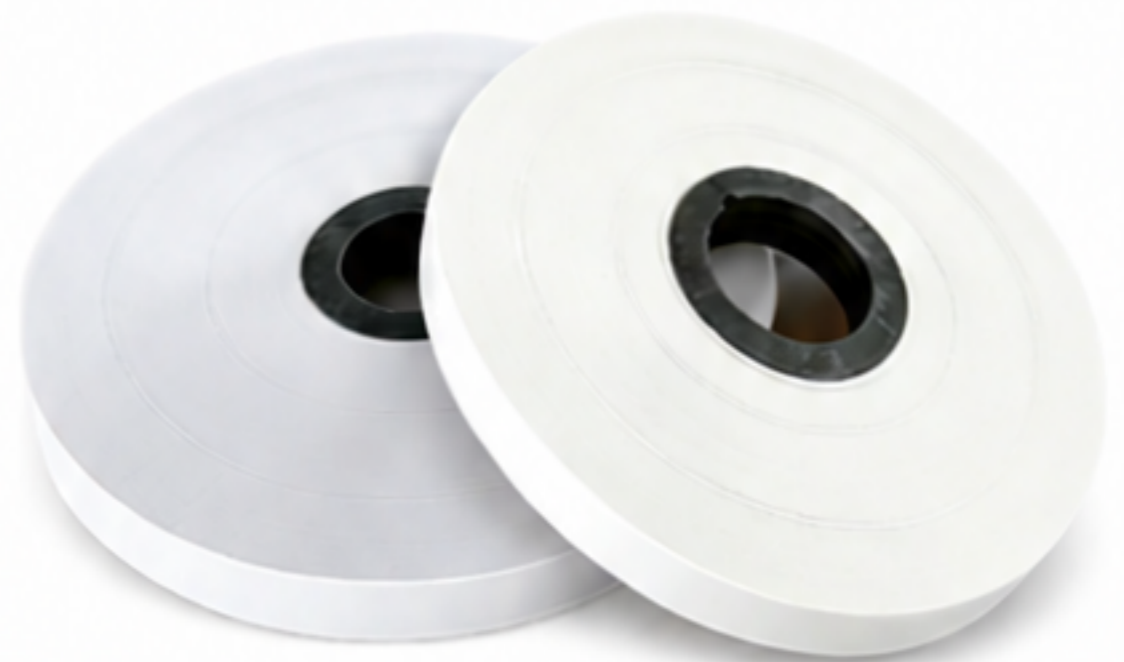
### 600D

- Elongation: 1.7–3.0%
- Moisture Content:  $\leq 1\%$

### 1200D

- Elongation: 1.7–3.0%
- Moisture Content:  $\leq 0.5\%$

## NON-WOVEN FABRIC



25mm width, 0.1–0.2mm thickness



Material: Polyester / Silk Non-woven

Non-woven fabric is widely used as insulation and protective wrapping layer in cable structures, providing stability during manufacturing and installation and resisting mechanical stress during processing.

### Key Features:

- High porosity
- Good tensile strength
- Excellent flexibility
- Compressibility
- Thermal and aging resistance

### Applications:



Power cables



Communication cables



Industrial cables

# POLYESTER RIPCORD

Cable Sheath Stripping Material for Optical Cable Applications



Polyester ripcord is used for easy cable sheath stripping during installation and maintenance.

## COLOR OPTIONS:

- Red
- Yellow
- White
- Custom Colors Available



### 2000D (1000D × 2)

Breaking Strength	≥100N
Elongation at Break	≥10%

### 3000D (1000D × 3)

Breaking Strength	≥180N
Elongation at Break	≥10%



## ONE-STOP OPTICAL CABLE MATERIAL SOLUTIONS

Complete raw material solutions for fiber optic cable manufacturing, including reinforcement, water blocking, wrapping and auxiliary materials.

