



# ADVANCED TELECOM **INFRASTRUCTURE SOLUTIONS**

Delivering high-performance FRP and ARP strength members  
for future-ready telecom networks.

Engineered for Strength. Built for Tomorrow.

## About Us

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SuperIndia Composites is a leading manufacturer of FRP and ARP strength members for telecom-grade fiber optic cables. With **two state-of-the-art plants** in India spread across **250,000+ sq. ft.**, we deliver precision-engineered, zero-defect composite solutions tailored to global telecom needs.

We have a robust **annual production capacity of 2 million kilometers**, powered by **both UV and thermal curing technologies**—ensuring high-volume output with custom precision.

## Mission

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To design and deliver best-in-class composite reinforcements that power the next generation of telecom infrastructure—on time, on spec, on point.



## What Sets Us Apart

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- ✓ ISO-aligned, zero-defect manufacturing
- ✓ Custom coatings, diameters & packaging
- ✓ Expertise in both central & peripheral reinforcement
- ✓ Proven in FTTH, 5G, aerial, and underground cables.
- ✓ Quick turnaround & engineering support



# Telecom-Grade Strength Members

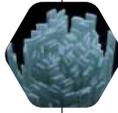
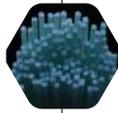
## Standard FRP Rod (Uncoated)

- Central strength member for OFC
- High stiffness and tensile strength
  - Uniform fiber-resin distribution



## Water-Blocking FRP Rod

- Swells instantly to block water ingress
- Ideal for cables in wet or humid conditions
- Eliminates need for separate swellable yarns



## Steel Core FRP Rod

- Combines strength of steel with flexibility
- Used in high-tension or compact cable



## EAA Coated FRP Rod

- Peripheral reinforcement for improved PE adhesion
- Flexible & smooth surface finish
- Available in 0.5–4.0 mm diameters

## Flat FRP Rod

- Dielectric lateral strength member
- Applied longitudinally or helically
- Excellent rodent protection and tensile strength

## Up-Jacketed FRP Rod

- Enhanced thermal resistance
- Suitable for environments with fluctuating temperatures

## Super Strong ARP Rod

Lightweight. Flexible. Reliable.

Non-metallic ARP rods designed as central strength members for FTTH cables—offering high tensile strength, superior bendability, and low weight.

### Key Features:



High strength with flexibility



EAA coating for handling & adhesion



Withstands high temperatures



Available in 0.4–1.0 mm (coated & uncoated)

### Applications:

FTTH cable designs | High-temp environments | Central strength in lightweight cables

## Technical Data Sheet for UV Coated FRP Rod

Sr no.	Parameters	Units	Specifications	Test Method
1	Diameter (Uncoated Rod)	mm	± 0.05	ASTMD 4565
2	Diameter (Coated Rod)	mm	+0.10 / -0.05	ASTMD 4565
3	EAA Coating thickness (As per Customer Req.)	Microns	40 ± 20	SICPL/QA/UV/WI/02
4	Ovality	mm	< 0.05	ASTMD 4565
5	Glass content	%	78±3	SICPL/QA/UV/WI/05
6	Density	gm/cm <sup>3</sup>	2.1 ± 0.1	SICPL/QA/UV/WI/10
7	Min. Bending Diameter at 25°C	mm	≤ 30 x Diameter of Rod	SICPL/QA/UV/WI/09
8	Tensile Strength	Mpa	≥ 1400	ASTMD 3916
9	Tensile Modulus	Mpa	≥ 50000	ASTMD 3916
10	Elongation at break	%	2.5 to 4.0	ASTMD 3916
11	Heat Stress (Min. Bending Diameter at 80°C)	mm	50 x Diameter of Rod (24 hrs)	SICPL/QA/UV/WI/03
12	Appearance	-	Smooth, Free from harmful cracks	Visual
13	Length	Kms	As per Customer Requirement	Counter Meter

## Technical Data Sheet for UV Coated ARP Rod

Sr no.	Parameters	Units	Specifications	Test Method
1	Diameter (Uncoated Rod)	mm	± 0.03	ASTMD 4565
2	Diameter (Coated Rod)	mm	+0.08 / -0.03	ASTMD 4565
3	EAA Coating thickness (As per Customer Req.)	Microns	30 ± 10	SFPL/QC/WI/07
4	Ovality	mm	< 0.03	ASTMD 4565
5	Aramid content	%	68±2	SFPL/QC/WI/06
6	Min. Bending Radius at 25°C	mm	≤ 16 x Diameter of Rod	Mandrel bend
7	Tensile Strength	MPa	≥ 1500	ASTMD 3916
8	Tensile Modulus	Mpa	≥ 50000	ASTMD 3916
9	Elongation at break	%	≤ 3.0	ASTMD 3916
10	Heat Stress (Min. Bending Radius)at 80°C For 24hr	mm	50 x Diameter of Rod	SFPL/QC/WI/03
11	Appearance	-	Smooth, Free from harmful cracks	Visual
12	Length	Kms	As per Customer Requirement	Counter Meter



## Quality Management System

Driven by Precision. Defined by Quality.

Super India Composite delivers advanced composite solutions for optical fibre cables—where quality is a journey, not a milestone.

### Our Commitment to Excellence

#### We offer 100% Rewinding

ISO 9001:2015 Certified  
World-Class Infrastructure  
Global Standards



#### Process Integrity

Digitally tracked production at every step



#### Skilled Workforce

Certified professionals with continuous training



#### Client-Centric QC

Custom checks as per client specs



#### Risk Control

Real-time defect tracking & rapid response

## Tested for Excellence

Our in-house labs ensure every product is built for reliability with tests including:

- Mechanical Strength (Tensile, Compression, Flexural)
- Thermal Stability & Aging Simulation
- Resin Flow & Viscosity Checks
- Dimensional Accuracy
- Environmental Resistance (-40°C to +200°C)
- Client-Specific Performance Testing



## Trusted Worldwide

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Our products are approved by leading telecom players and utilities, and consistently exported to:

🌐 Europe | 🇺🇸 America | 🌏 Asia

### Let's Build the Future of Telecom Together

Strengthen your fiber networks with SuperIndia's advanced FRP and ARP solutions.

[www.superindiagroup.com](http://www.superindiagroup.com)

## CONTACT US

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