Cable protection solutions for a connected world

Providing materials for protection against water ingress and mechanical/electrical stresses for fiber optic and power cables.
Comprehensive cable protection solutions that keep our world connected

A trusted supplier for over 20 years to the world's top 10 cable manufacturing companies

Our key differentiators

- Comprehensive product range
- A culture of quality across the company
- Talented and pro-active leadership
- Scalable manufacturing bandwidth
- A global presence of agents and distributors

Our Vision

To maintain and grow Indore’s leadership position in reinforcements and water repelling materials for fiber optic and power cables, by constantly innovating new products and improving existing products & services. At the same time build a technologically driven world-class organization with its primary focus on customer satisfaction.

Manufacturers of FRP rods, ARP rod, coated glass fiber, tapes, yarns and gel for the cables that require durability and longevity.

FRP Rod
Indore’s high quality FRP rods are used as central strength member and peripheral strength member in most fiber optic cables.

Coated Glass Fiber/Yarn
These glass fibers are used as peripheral strength member in standard cables, with added functions of rodent resistance and water blocking.

Coated Steel Wire
Our steel wires are renowned for their reasonably low bending radius, memory free feature and high adhesion to jacket material, making it suitable for FTTx cables.

Aramid Rod
Our ARP rod is known for its flexibility and high modulus making it suitable for FTTx cables and aerial drop cables.

Water Swellable Tapes
Our water blocking tapes are known for its fast swelling speed and high gel strength making it suitable for all types of fiber optic cables and power cables. The semi-conductive tapes, are known for good insulation and water blocking property, making it suitable for medium, high and extra high voltage power cables. Water Swellable Yarn is used in cables to prevent penetration of water. Indore’s yarn swells instantly, when it comes in contact with water, providing immediate protection from water ingress both in power cables and fiber optic cables.

Gels
Thixotropic Filling Gels are used to prevent water ingress into buffer tubes and protect the Fiber. The Flooding gel is used to fill the space between the loose tube and the jacket. Our Gels are widely used for loose tube, uni tube, slotted core, ribbon, OPGW and submarine cables applications.
**Reinforcements**

**FRP Rod**
Glass fiber reinforced rods are made with Indore’s proprietary INDOLINE technology and high heat resistant resin. These rods can be used both as central and peripheral strength member in multi tube, uni tube, slotted core, drop cable, FTTx cable etc.

**Key Properties of INDOLINE FRP**
- High modulus and tensile strength keeps the fiber strain below 0.25 % during the cable lifespan
- Available in diameter ranging from 0.3 mm to 6.0 mm
- Narrow dimensional tolerance of diameter and ovality
- Minimum Bend Radius provides flexibility with the right amount of anti-buckling
- Superior Long term aging property - Indicates long term survival in severe conditions
- Adhesion with a wide variety of jacket material
- Longer lengths per spool - low scrap and higher line efficiency

**EAA coated Steel Wire**
Indore’s coated steel wires are memory free and easily adapt to mechanical stresses. Our coated and high strength steel wire is especially suited for FTTx cable applications. It has an adhesive coating for bonding to all types of jacket material and is available in a size range of 0.4 mm – 1.5 mm.

**Aramid Rod**
Indore manufactures Aramid yarn reinforced rods that come with high flexibility and a high modulus capable of withstanding highest stress levels and tight bends. Highly suitable for FTTx cables and are available from 0.4mm to 1.0mm in coated as well as in uncoated form.

**Coated Glass Fiber (CGFR)**
When cables need more strength, protection from rodents and water, our world class coated glass fibers are used as a peripheral strength member.

The glass fibers are coated with special resins to protect the glass fiber during cable production and also to strengthen it. Customers can choose from a wide variety of tex and colour options.

**Product Range**
- INDOLINE – FRP rod for all types of cables
- INDOLINE C – Coated FRP Rod
- INDOLINE UJ – Up Jacketed FRP Rod
- INDOLINE FLX – Steel embedded FRP Rod
- INDOLINE WB – Water blocking FRP Rod
- INDOLINE STL – Stiff FRP Rod
- INDOLINE FLAT – Flat FRP for flexible armoring
- INDOLINE C – Coated stiff glass fiber
- INDOLINE C – Coated FLAT glass fiber

**Yarns**
Indore’s water swellable yarn is widely popular for semi dry and dry fiber optic cables, instrumentation cables and power cables (medium and high voltage) by manufacturers all over the world.

When the yarn comes in contact with water, it instantly swells and fills the gap between the components of the cable, preventing the spread of water. These are made using polyester yarns and coated with liquid SAP to impart its unique swelling property.

**INDOSWELL – Water Swellable Yarn**
- Has a high breaking strength
- Excellent water blocking property
- Ideal replacement for the messy SAP Powder and Gel
- Size Range – 250 denier to 6000 denier
- Cost effective solution
- No residual dust

**Tapes**
Water blocking tapes are wrapped around buffer tubes or conductors offering water resistance over long period of time, without being messy. The semi-conductive water blocking tape facilitates complete insulation and protects the cable against water ingress as well.

The tapes are made using non-woven or woven fabric and coated with SAP powder giving it water swellable properties. For semi conductive applications, an additional conductive compound is added as a coating material, giving it semi-conductive properties.

These are available in slitted pads or traverse wound bobbins enabling much longer length per package, which in turn helps in higher production efficiencies.

**Product Range**
- INDOLINE WB – Water blocking FRP Rod
- INDOLINE CL – Coated FRP Rod
- INDOLINE UJ – Up Jacketed FRP Rod
- INDOLINE FLX – Steel embedded FRP Rod
- INDOLINE STL – Stiff FRP Rod
- INDOLINE FLAT – Flat FRP for flexible armoring
- INDOLINE C – Coated glass fiber
- INDOLINE C – Coated FLAT glass fiber
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**Advantages**
- No residual dust
- Excellent water blocking property
- Ideal replacement for the messy SAP Powder and Gel
- Size Range – 250 denier to 6000 denier
- Cost effective solution
- Has a high breaking strength
Indore’s gel manufacturing unit is a joint venture between Indore Composite, India and Info Gel, USA. Our collaborators are reputed for their pioneering work in all types of cable gel for over 30 years and very recently the joint venture (Indore Gel, India) has succeeded in developing a special OPGW and Submarine cable gel.

We make gels for tube filling and flooding compounds that can withstand temperatures as low as -70°C to 85°C on the higher side. The filling gel goes inside the buffer tubes, giving the cable a cushion layer and protection from water. The Flooding gel is applied to the exterior of the tube and forms a strong shield against water ingress in the cables.

**INDORE GELS**

**Cable Filling Gel**
- Gel for Loose tube Cable (-40°C to -70°C)
- Gel for OPGW Cable
- Gel for Ribbon Cable
- Gel for Submarine Cable

**Cable Flooding Gel**
- Flooding Gel
- Water Swellable Flooding Gel

**Quality Management & Approvals**

At Indore, Quality is the common language spoken across all tiers of the management and every person working on the production floor. It is this quality focused culture that has helped us achieve a customer satisfaction rating of 99.4%, year on year and is continuously improving.

Every individual goes through a rigorous quality control training at induction and on the job. We follow quality protocols ardently and have a zero tolerance towards defects or any deviation from internal quality norms.

All of Indore’s plants are ISO 9000 Certified and our products are tested and approved by clients who set a very high benchmark for quality parameters for inward material.

**Testing Facilities**

- Universal Testing Machines – Tensile, Flexural, Elongation, Compression
- Precise Temp. Control Ovens – Heat Stress, Curing, Aging
- Muffle Furnace – Measure composition of product
- Differential Scanning Calorimeter (DSC) – Glass Transition Temp, Curing
- Environment Chamber – Long term aging properties
- Precision Weighing Scale
- Viscometer – Flow behavior of resins
- High magnification microscope

**Research & Development**

At Indore, we work along with our customers in developing specific solutions that fit their special needs. Our team listens intently and proposes products that meet their technical specifications and expectations. This is one of the key reasons why Indore is the preferred supplier over others and considered as a partner rather than a supplier, because of our solution driven approach.

In the last 5 years, we have developed over 20 value adding products that are evolved from existing product's knowledge using our R&D team's capabilities and perseverance.

**Approvals & 3rd Party Recognition**

- ISO 9001:2015
- CACT, India
- British Telecom
- BSNL / BBNL
- Verizon
- British Telecom (BT)
- Telefonica
- AT&T
- French Telecom

**Infrastructure and Capabilities**

- Plant 1: Pithampur, MP - Built up - 4500 sq.mt.
- Plant 2: Ambernath, MAH - Built up - 9000 sq.mt.

**CSR Activities**

- Being a part of a developing society, we believe that playing an active part in the community we live in is not an opportunity, it is a duty.
- Our CSR activities are ongoing throughout the year. We take active part in education and healthcare activities of the under privileged. We have supported programs in collaboration with NGOs and local bodies.
- Annual Medical camp at a Government School in Banjari, Pithampur, MP
- Distribution of high protein mixture and food at Government operated schools
- Carry out “Swatch bharat” – Clean up campaign in areas surrounding our factories
- Scholarship Program for meritorious students and under privileged children
- Drinking water distribution camps during summer season
Since 1995, Indore has been a company driven by innovation at its core. By combining knowledge, technology and talented individuals we have created a company that offers innovative products in cable protection solutions and engineering plastic (metal substitution) products to industry leaders across the world.

We are known for our consistent quality, solution driven approach and reliability across all continents of the world.

Indore being an environmentally conscious organisation, over the years has discovered new applications and usability for 80% of its scrap/wastage generated, either within or outside the organisation.

Global Reach

ASIA/ MIDDLE EAST
India
Oman
Iran
Saudi Arabia
Malaysia
Bangladesh

EUROPE
Turkey
France
Romania
Denmark
Netherlands
United Kingdom

RUSSIA /CIS
Russia
Estonia
Lithuania
Ukraine
Belarus

SOUTH AMERICA
Brazil
Argentina
Columbia

AFRICA
Algeria
Ethiopia
Egypt

ASIA/ MIDDLE EAST
Israel
China
Korea
Vietnam
Thailand

EUROPE
Spain
Belgium
Germany
Finland

RUSSIA /CIS

SOUTH AMERICA

AFRICA

INDORE

Plants : Ambernath (MH), Pithampur (MP), Umbergaon (GJ)