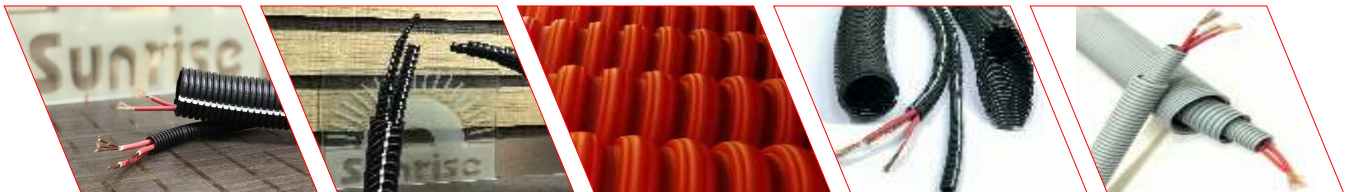


SUNRISE CORRUGATED INDIA PVT.LTD



PRODUCT DESCRIPTION

CORRUGATED FLEXIBLE HOSE PIPES

- ✦ FRPP
- ✦ NON FRPP (PP)
- ✦ EVA, NYLON
- ✦ DWC HDPE PIPES
- ✦ FITTINGS

FEATHER IN OUR CAP



IATF 16949:2016

We are ISO 9001 : 2018 Certified company.



CE

By affixing the CONFORMITE EUROPEENE marking on our product & Certified.



QUALITY ASSURANCE LABORATORY

Laboratory Quality Assurance (QA) encompasses a comprehensive program with a range of activities that involves determining and implementing a quality goal and maintain high levels of proficiency despite changes in test methods.



FIELD TESTING STATION

These are equipped with the State of art indigenous and imported equipment in the disciplines of Metallurgical and Electrical Engineering based on local needs to undertake Performance test, Type test and Acceptance test of semi finished, finished products.



ARAI

ARAI is research association of the Automotive Industry with Ministry of Heavy Industries and Public Enterprises, Government of India. It works to offer the finest services, which earned for itself ISO 9001, ISO 14001, OHSAS 18001 and NABL accreditations.



DIMENSION TESTING

A coordinate measuring machine (CMM) is used to perform dimensional testing. This device measures the physical geometrical characteristics and complex components of an object in three dimensions.



IS 16205:2017 PART 24

IS 14930:2001 Part 2 amended to IS 16205
Part 24 : 2017 for conduit system
Buried underground for DWC HDPE Ducts.



TEC (BSNL)

Telecom Engineering Center,
Department of Telecom for DWC HDPE Ducts.

AUTOMOBILE INDUSTRY

FROM THE MANAGING DIRECTOR'S DESK

Competition is what allures us. In fact, it is the haven in which we thrive in. Which is why, ours is a very quality conscious organization. Our products represent the iconic status of quality.

The entire manufacturing unit is of international standards. "State-of-the-art machines" (Imported Machine) from "best-of-the-bunch" Manufactures, is installed at our unit.

At every step of production, samples are subjected to a series of on-line laboratory testings, which ensures that the produce conforms to standards pertaining to global markets.

This is followed by a series of other tests to establish the eligibility of the "finished product" for its application criteria and thereby its commercial valibility. Here too, the tests confirms to various standards set By a list of Quality Assessing Agencies.

Finally, after Q.C. the products are appropriately packed, labeled & dispatched to our esteemed clients, of both national and international destinations. Their repeatedly procuring of our products on a regular basis, stands testimony to their satisfaction with our products and services.

Also, I take pride in mentioning that our organization is an ISO 9001 : 2015 certified company - (URS Cert - Certification by URS systems - Certificate No. 67936/AA/0001/SM/En).

Once again pleding to provide quality service & products at all times.



LAXMAN SINGH RAJ PUROHIT,
Managing Director
Sunrise Corrugated (India) Pvt. Ltd.

GROWTH OF OUR COMPANY

1987

Humble beginnings

Sunrise Corrugated (India) Pvt. Ltd. was established in 1998, in India. Being the leading manufacturer, exporter, and service provider for the effective range of quality products to our Customers, the organization started manufacturing PP single wall pipe production with 1 machine.

2005

Evolution

The company has consistently evolved to be a major supplier to various projects and customers with a philosophy to manufacture and supply the highest quality plastic piping products in India.

2010

Meeting Wide Range of Requirements

Our products seamlessly meet the requirements for Home Appliance like Washing machines, Automobile, Appliances and Wiring Harness Industries and have been known for good quality and durability.

2012

Manufacturing Double Wall Corrugated Pipes

Sunrise Corrugated (India) started manufacturing Double Wall Corrugated HDPE Pipe (DWC) production along with an investment of 7 machines.

2014

Quality Laboratory

Sunrise Corrugated (India) has expanded In-house laboratory for improving 100% quality.

2017

Global Standards

Being one of the leading companies in the market providing the best quality, effective offer for these quality product lines complementing to the levels required for global standards.

2018

Steps to expansion

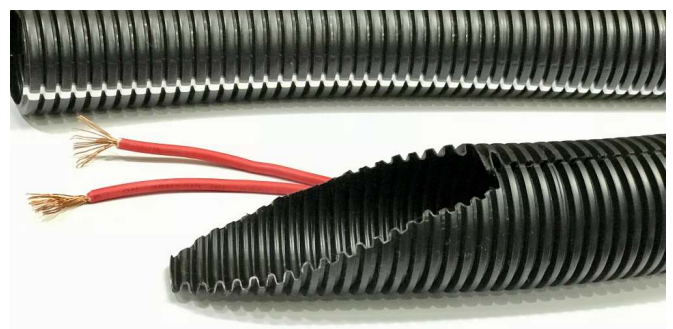
Sunrise Corrugated (India) Planning for adding few more new plant & Products as expansion.

FRPP CORRUGATED FLEXIBLE HOSE PIPES

Wiring harnesses, fuel injection pipes and pneumatic lines in any automobiles is vulnerable to mechanical & thermal damage, climatic interference and deposits of wind, dust oil or water. To protect these important conducting lines, poly propylene (FRPP) based Sunrise corrugated flexible hose pipes are used as envelopes. Manufactured on both slitted and non-slitted varieties. (size : 5 mm to ID to 42 mm ID), the product confirms to stringent quality levels required for global standards. Sunrise corrugated flexible levels required for global standards. Sunrise corrugated flexible hose pipes offers resistance to corrosion by most of the mineral oils, acids and alkalis. Added to this, FRPP based Sunrise Corrugated flexible hose pipes has the ability to withstand extreme temperature conditions (varying -20⁰c to 140⁰c) and it is light in weight.



FRPP based Sunrise corrugated flexible hose pipe is successfully tested and approved by FTS, as per UL 94 V-2 specification, for being Flame Retardant. That is, it has the quality to retard the propagation of fire, and self extinguishes it self when ignited. It also does not crack, when subjected to sub-zero temperatures. This comes of use in the automobile industry during various stages of production, which involves welding and other mechanical activities. Manufactured using Prime grade international FR compound, FRPP based Sunrise corrugated flexible hose pipe envelop, prevents the sparks arising during thermal treatment, from damaging the conducting lines of the automobile. Further is also eliminates the mechanical damages, during Production.



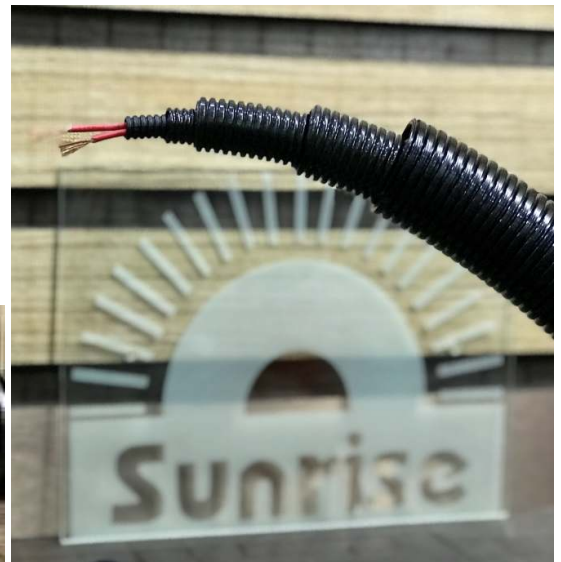
NON FRPP (PP) CORRUGATED FLEXIBLE HOSE PIPES

We are one of the leading manufacturers of PP corrugated flexible hose pipes in Bangalore as well as South India. With increasing needs for flexible pipes in India and growing demand for long-lasting, reliable and environment-friendly sources, Sunrise Corrugated has identified opportunities to develop polypropylene corrugated hose pipes complementing to the levels required for global standards. Being one of the leading companies in the market providing the best quality, effective offer for these quality product lines, and undeniable services by understanding your requirement is our utmost motto.

ADVANTAGES

There is a "generation" of advantage in using Corrugated Pipes. Compared to pipes made of conventional materials like metal, ceramic, smooth plastic wall pipes, etc. Sunrise Corrugated flexible hose pipes are..

1. Highly impact resistant.
2. Best for continuous long term operations.
3. High ring & bending qualities - Flexural strength.
4. Easy handling.
5. Highly versatile - Adjusts easily to specific areas of application.
6. Thermal resistance.
7. Chemical resistance.

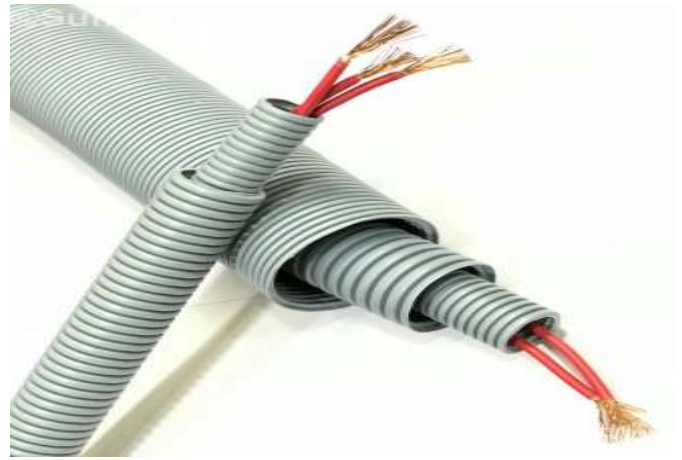


SL. NO	Duct Size mm	Nominal ID mm	Nominal OD mm	MATERIAL
1	05x07MM	05	07	PP / FRPP / PVC / NYLON / EVA
2	07x10MM	07	10	PP / FRPP / PVC / NYLON / EVA
3	10x14MM	10	14	PP / FRPP / PVC / NYLON / EVA
4	12x16MM	12	16	PP / FRPP / PVC / NYLON / EVA
5	13x18MM	13	18	PP / FRPP / PVC / NYLON / EVA
6	15x20MM	15	20	PP / FRPP / PVC / NYLON / EVA
7	17x23MM	17	23	PP / FRPP / PVC / NYLON / EVA
8	19x25MM	19	25	PP / FRPP / PVC / NYLON / EVA
9	23x28MM	23	28	PP / FRPP / PVC / NYLON / EVA
10	25x32MM	25	32	PP / FRPP / PVC / NYLON / EVA
11	28x34MM	28	34	PP / FRPP / PVC / NYLON / EVA
12	32x40MM	32	40	PP / FRPP / PVC / NYLON / EVA
13	38x45MM	38	45	PP / FRPP / PVC / NYLON / EVA
14	42x50MM	42	50	PP / FRPP / PVC / NYLON / EVA

ZEEFLEX[®] CORRUGATED FLEXIBLE HOSE PIPES

Providing a broad range of ZEEFLEX[®] Corrugated Flexible Hose Pipe to our Customers, shaped using superior quality raw material and newest technology.

The pipes are available in a variety of length, sizes, and fitting configuration and can be tailored according to the needs of the Customers. These pipes maintain an international quality standard which is completely made-to-order at low and effective cost for Electrical Applications.



SL. NO	Duct Size	Nominal ID mm	Nominal OD mm	MATERIAL
1	12x16mm	12	16	Zeeflex
2	15x20mm	15	20	Zeeflex
3	19x25mm	19	25	Zeeflex
4	25x32mm	25	32	Zeeflex
5	32x40mm	32	40	Zeeflex
6	42x50mm	42	50	Zeeflex

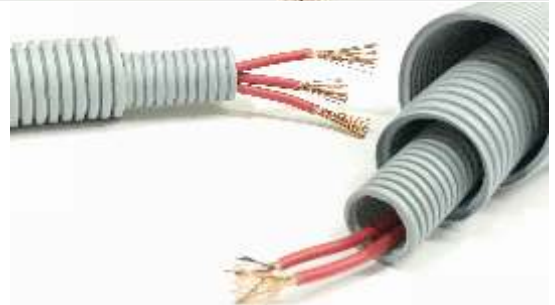
The prestigious
ISO 9001:2015 CERTIFICATION
For establishing and applying
internationally advised quality
of management.



Sunrise corrugated flexible
hose pipes is

**Satisfactorily tested and
approved for**

1. Tensile strength and elongation
2. Impact resistance test
3. Kerosene (mineral oil) resistance test
4. Physical deformation test after heating
5. Compression load resistance test
6. Dimension test
7. Electrical and insulation test
8. Fire Retardant test



DOUBLE WALL CORRUGATED HDPE DUCT (DWC)

We are one of the leading manufacturers of DWC HDPE Pipes as per IS 14930 : Part 2 in Bangalore as well as South India. Best quality Double wall corrugated HDPE pipe widely used in the protection of cables from railways, municipal committees, Telecom industry, construction companies etc. These are produced from excellent rawmaterial and modern equipment accessible in a variety of sizes, lengths, dimensions, tailor-made to the requirements of the Customer and have a longer service life.



Sunrise ducts are economically viable for its strength to weight ratio, long metallurgical life expectancy, structural integrity and socio- environmental benefits (saving enormous time for project implementation). Sunrise ducts are ideal for cable ducting due to its crush strength, bending radius and superior pulling ability. They provide the necessary reinforcement for future road construction, unanticipated digging work and rodents.

These conduits are manufactured by using twin layers of High Density Polyethylene, which are corrugated from outside and glass smooth surface from inside. It is done through a comprehensive green and clean process meticulously following National Standards as:-

- * IS14930:2001 part 2 amended to IS 16205 Part 24 : 2017 for Conduit System Buried Underground.
- * Approved by Telecom Engineering Centre, Department of Telecom, (TEC) BSNL for DWC HDPE Ducts .

All necessary Testing facilities in accordance with the above mentioned codes are also available in house which guarantees a superior unmatched quality.

APPLICATIONS OF SUNRISE

Used in Highways and National Infrastructure development, Housing Developments, Special Economic Zones, Commercial Projects, Retail and Industrial Infrastructure applications.

Electrical Applications

- * Casing for street light cables laid between poles.
- * Power cable protection in distribution networks
- * Low Tension Electric (LT) Cable protection
- * Indoor Ventilation Systems
- * Plumbing Pipes Protection
- * Half split Sunrise duct also available for protection of existing ducts or cables.

Telecom Ducting

- * Underground Cable Protection
- * Protection of Cables at rail or road crossings
- * Protection of Cables across water bodies
- * Protection of Optic fiber cables networks
- * Protection for heavy loading areas
- * Main cable duct for sub -duct networks
- * Protection of Copper cables
- * Used as casing duct for cables in Railway signaling departments

ADVANTAGES OF SUNRISE



Long life	Compared to other conventional piping Systems
Lightweight	Lower product and very easy for installation
Excellent Strength	Withstands constant heavy overload pressure
Non- Conducting	Not susceptible to galvanic corrosion or electrical interference
Low Coefficient of Friction	Simplifies field installation due to lower cable stress
Flexible	Does not break and adaptable to ground heaves and shifts
Longer lengths	Fewer joints and easier to lay
Chemical Resistance	Extended underground life
Moisture Proof and Watertight	Complete Cable protection
Immune to Bacterial or Fungal Growth	Impervious to insect attacks
Color Coded	Easy to Identify
Non-Toxic Rodent Repelling Properties	For protection against rodent infestation (on demand)
Flame Retardant	For flame propagation protection (on demand)

Available Sizes

DOUBLE WALL CORRUGATED HDPE PIPES (DWC)

SL. NO	Duct Size mm	Nominal ID mm	Nominal OD mm	MATERIAL
1	95x110MM	95	110	HDPE
2	105x125MM	105	125	HDPE
3	136x160MM	136	160	HDPE
4	175x200MM	175	200	HDPE
5	215x250MM	215	250	HDPE

Standard Black & Orange color available. Other colors provided on demand

Properties available on demand:

- * Non toxic rodent repellent
- * Flame resistant

APPLICATIONS

- ★ Protecting underground Cables / OFC Cables
- ★ City and Urban Clusters
- ★ Urban Sewerage Rehabilitation
- ★ Highway and busy roads
- ★ Earthquake prone areas with high tectonic movements
- ★ Effluents disposal and Industrial drainage
- ★ Rainwater drainage
- ★ Shallow and deep tube-well casing

Facts and Figures

1. 95% lighter than Concrete pipes.
2. 100% Recyclable at the end of its usable life.
3. 35km of 110mm Sunrise pipes can be transported in 10 trucks. Reduces transportation cost by 30-40% .
4. 30% lower annual amortized costs as compared to Concrete Pipes.
5. 3 times longer life compared to Concrete Pipes
6. 6 meter longer in length, fewer joints to ensure better leakage protection
7. Co2 emissions for Concrete pipes is over 3 times that of plastic pipes.



★ **Couplers for jointing pipes for better grip with good flexibility & Strength.**



QUALITY

Our testing facilities are capable of performing the most stringent tests required for the piping systems as per IS 14930 : 2001 Part 2 amended to IS 16205 Part 24 : 2017. This allows us to maintain a superior product quality which can be constantly monitored and improved over time.

THE MOST VITAL TEST FOR DWC HDPE PIPES ARE LISTED BELOW

- ★ Dimension Test
- ★ Visual Inspection
- ★ Compression Test
- ★ Impact Test
- ★ Bending Test
- ★ Resistance to flame Propagation
- ★ External Influences IP-67
 - ★ Degree of Protection - Ingress of foreign solid objects.
 - ★ Degree of Protection - Ingress of Water



Case Study

Findings of an in depth economical comparative analysis with routine Np3 Reinforced Concrete Conduit System & alternative DWC HDPE Piping Network:

- ★ The price comparison reveal that the Direct Capital Cost for the Typical Sewerage Zone with Gravity Flow collection system comprising of DWC HDPE pipes (inclusive of cost of sewage lifting stations) is significantly lower than the system designed with RCNP3 pipes.
- ★ Fewer Sewage Lifting Stations due to favorable sewer hydraulics when using DWC HDPE pipes Considerable reduction in annual maintenance costs and replacement cost. Least cost analysis shows the Present Amortized value of the project with DWC HDPE pipes shall be decisively more Economical in Comparison to routine Non-Pressure Networks.
- ★ Additionally there are Socio - environmental benefits due to reduction in the installation time on account weight & ease of handling / transportation / laying.

SUNRISE CORRUGATED INDIA PVT.LTD

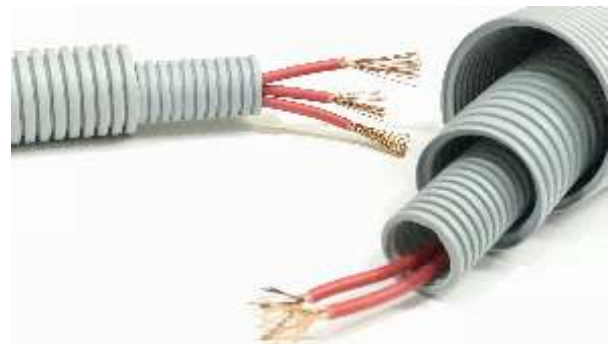


SUNRISE CORRUGATED (INDIA)PVT.LTD.

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By affixing the CONFORMITE EUROPEENE
marking on our product & Certified.

SUNRISE CORRUGATED INDIA PVT.LTD



Dealers/ Distributors :

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For
Sunrise Corrugated India Pvt. Ltd.