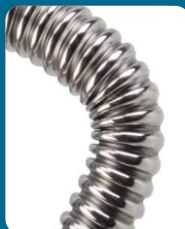


**R FLEX**



**Royal Steel Works**



## COMPANY PROFILE

Royal Steel Works is known to be amongst the prominent manufacturers and exporters of this highly commendable range of Flexible Conduits and Brass Fittings. The offered range made up of the Galvanized Steel Flexible Conduit, Galvanized Steel PVC Coated Flexible Conduit, Liquid Tight Flexible Conduit, Galvanized Steel Rust Proof Flexible Conduit, Galvanized Steel PVC Coated Flexible Conduit, PVC Wire Rein Force Flexible Conduit, Steel Wire Rein Force Flexible Conduit, Liquid Tight Steel Flexible Conduit and UL Type Green Field Flexible Conduit. Manufacturing of this range is done using the supreme quality materials as per the standards set by the industry. The offered array of products is widely acknowledged for application specific design, & high performance.

We are strongly supported by a team of talented and experienced professionals. Strict quality checking is performed on all offered products by our specialized team of quality controllers, who assure error free products. Apart from this, our well-planned and maintaining quality in the products has helped our organization to attain maximum growth in industry.

Under the supervision of our mentor Mr. Mohammad Azhar, we are able to offer a high quality range to our products. His capability of efficiently understanding the exact requirements of clients has assisted us becoming the most preferred choice of the customers.



## Galvanized Steel Flexible Conduit

Material : **Galvanized Steel**

Color : **Natural Operating**

We provide a comprehensive range of Galvanized Steel Flexible Conduit, which is designed in order to provide mechanical strength and higher flexibility. These helically wound flexible conduits in galvanized steel are appreciated for features such as corrosion resistance, durability, and high functional life. We offer these conduits in natural as well as in zinc finish

### Specifications

- ⦿ High mechanical strength
- ⦿ Highly flexible
- ⦿ Temperature range: -40°C to +300°C
- ⦿ IP rating: IP40 with standard fittings
- ⦿ Inherent low fire hazard product

### Application Areas

- ⦿ Bathroom fittings and interiors
- ⦿ Areas subject to heat and sparks (foundries, welding, etc)
- ⦿ Used as mechanical protection for insulated electrical cables and Wires that are functional in normal atmospheric temperature
- ⦿ Under floor applications for computer/floor boxes
- ⦿ For furnace/oven applications
- ⦿ Used for connecting machines to controls

### Size List

TRADE (SIZE IN INCH)	TRADE (SIZE IN MM)	INTERNAL DIAMETER (MM) (+/- 1)	EXTERNAL DIAMETER (MM) (+/- 1)	MIN. BENDING RADIUS (MM)	COIL PACKING IN METER
3/8"	10	10	13	30	50
1/2"	12	12	16	43	50
5/8"	16	16	19	30	50
3/4"	19	19	22	50	50
1"	25	25	28	57	50
1-1/4"	32	32	35	70	50
1-1/2"	38	38	41	80	25
2"	50	50	53	95	25
2-1/2"	63	63	66	140	15
3"	75	75	81	150	10
4"	100	100	105	190	10
6"	150	150	160	340	5



## PVC Coated Steel Flexible Conduit

Material : **PVC Covered Galvanized Steel**

Color : **Black, other Colour on Request Operating**

We are engaged in manufacturing and exporting a quality range of PVC Coated Steel Flexible Conduit. Our conduits are used for mechanical protection of cable and wire in tunnels, hospitals, high-rise office blocks and public buildings, airlines, underground and others. Further, these are PVC coated in order to ensure resistance against corrosion. These steel flexible conduits are most suitable for tight-spot installation and in places where certain water tightness is required. Galvanized steel, helical wound, flexible steel conduit is available in poly vinyl coating in black color with spiral corrugated pattern finished surface.

### Specifications

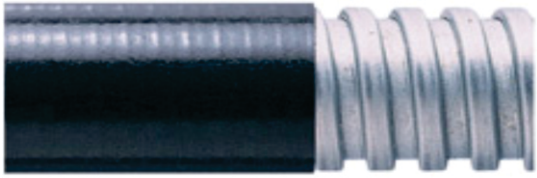
- ⦿ IP rating: IP54 with standard fittings
- ⦿ IP65 with type C compression fittings
- ⦿ Halogen, sulphur and phosphorus free
- ⦿ Temperature range: -25°C to +90°C
- ⦿ Nickel plated brass fittings

### Features

- ⦿ Galvanised steel, helically wound, flexible steel conduit with pvc coating. Colour black. Grey or orange on request
- ⦿ Highly flexible
- ⦿ Low smoke density
- ⦿ Water resistance
- ⦿ High mechanical strength
- ⦿ Highly flexible

### Size List

TRADE (SIZE IN INCH)	TRADE (SIZE IN MM)	INTERNAL DIAMETER (MM) (+/- 1)	EXTERNAL DIAMETER (MM) (+/- 1)	MIN. BENDING RADIUS (MM)	COIL PACKING IN METER
3/8"	10	10	15	50	50
1/2"	12	12	17	65	50
5/8"	16	16	22	30	50
3/4"	19	19	24	55	50
1"	25	25	29	65	50
1-1/4"	32	32	43	75	50
1-1/2"	38	38	46	86	25
2"	50	50	56	105	25



# Liquid Tight Steel Flexible Conduit

Material : **Heavy Duty PVC covered galvanized steel**

Color : **Black and other colour on request**

Liquid Tight Steel Flexible Conduit manufactured using galvanised steel is resistant to oil and grease. Helically wound flexible conduit is available with smooth wipe clean outer cover or PVC cover, this make them UV resistant and can be used for external use. We offer these conduits in various colours such as black, grey, & orange, and also in customised forms as required by clients.

## Specifications

- ⦿ Working temperature: Min – 20° C Max + 105° C
- ⦿ IP rating: IP66 + IP67+ IP68 (5 bar)

## Features

- ⦿ Flexible construction
- ⦿ Corrosion resistance
- ⦿ Smooth interior for easy wire pull-through
- ⦿ Flexibility in an economic design
- ⦿ High mechanical strength

## Size List

TRADE (SIZE IN INCH)	TRADE (SIZE IN MM)	INTERNAL DIAMETER (MM) (+/- 1)	EXTERNAL DIAMETER (MM) (+/-1)	MIN. BENDING RADIUS (MM)	COIL PACKING IN METER
3/8"	12	12	17	60	50
1/2"	15	15	21	80	50
3/4"	21	21	25	100	30
1"	26	26	33	150	30
1-1/4"	36	36	42	180	20
1-1/2"	40	40	47	220	20
2"	50	50	60	250	15



## UL Type Green Field Flexible Conduit

We manufacture a wide range of UL Type Greenfield Flexible Conduit using hot dipped galvanized steel strips of heavy thickness. These are made using helical winding of cold rolled annealed pinch passed hot dipped galvanized steel strip. Fabricated in round lock construction, Greenfield Flexible Conduit is used where high corrosion resistance and long life for the conduit is required.

### Our range is highly appreciated for the following features :

- ⦿ Highly resistant to corrosion
- ⦿ Long service life
- ⦿ Good mechanical protection
- ⦿ Medium bending flexibility
- ⦿ Inherent low fire hazard
- ⦿ Resistant to high temperature +300°C
- ⦿ Operate efficiently in broad temperature range
- ⦿ Can bear strong tension

### Application Area

- ⦿ Used in furnace/oven applications
- ⦿ Connect machines to controls
- ⦿ Used under floor applications computer/ floor boxes, bathroom fittings and interiors
- ⦿ Used as mechanical protection for insulated electrical cables which are exposed to normal atmospheric conditions
- ⦿ Useful in areas which are subject to heat and sparks (foundries, welding, and others)

### Size List

TRADE (SIZE IN INCH)	INSIDE DIAMETER (MM) (+/- 1)	OUTSIDE DIAMETER (MM) (+/- 1)	COIL LENGTH IN METER
1/2"	17	21	30
3/4"	20	25	30
1"	28	31	30
1-1/4"	37	41	15
1-1/2"	41	45	15
2"	51	55	15
2-1/2"	57	63	10





## Interlocked Galvanized Steel Flexible Conduit

Interlocked Galvanized Steel Flexible Conduit is fabricated using high grade raw material. These round cross section, double interlocked profile, and packed conduits are available in various sizes and dimensions as required by our clients.

Our range is highly appreciated for corrosion resistance, high mechanical properties, and long functional life.

### Application Area

- Liquid tight (External PVC extruded sleeving) for machine industry
- Armour for capillary tubing and telephone cords
- Parachute rip cord assemblies
- Liquid handling applications



# Steel Braided Galvanized Steel Flexible Conduit

Steel Braided Galvanized Steel Flexible Conduit manufactured by us is widely used for automation applications. Available in round lock construction, these are fabricated using helical winding of cold rolled annealed pinch passed hot dipped galvanized steel strip. These have the ability to work at high speed for long period offering total reliability for cable protections. With the aid of our professionals, we are able to design these to deal with stress relating applications.

## Features

- ⦿ Excellent mechanical characteristics
- ⦿ High speed capability
- ⦿ High pull-off strength
- ⦿ Protection from abrasion
- ⦿ High fatigue life
- ⦿ Used where high corrosion resistance and long life for the conduit is required

## Application Area

- ⦿ Used under floor applications computer / floor boxes, bathroom fittings and interiors
- ⦿ Used to connect controls & machines
- ⦿ Used in furnace/oven applications
- ⦿ Useful in areas which are subject to heat and sparks (foundries, welding, and others)
- ⦿ Ideal for mechanical protection for insulated electrical cables / wires that are exposed to normal atmospheric conditions

## Size List

TRADE (SIZE IN INCH)	INSIDE DIAMETER (MM) (+/- 1)	OUTSIDE DIAMETER (MM) (+/- 1)	COIL LENGTH IN METER
1/2"	16.5	22.0	30
3/4"	20.5	26.0	30
1"	25.5	33.0	30
1-1/4"	32	39.5	15
1-1/2"	38.0	47.0	15
2"	51.0	60.0	15
2-1/2"	63	70	10
3"	76	82	10
4"	100	108	10





## Stainless Steel Flexible Conduit

We offer an extensive range of Stainless Steel Flexible Conduit that is manufactured using stainless steel strips which makes it corrosion resistance and highly durable. These are designed primarily for OEM applications, in specialty sensing devices, or medical equipment, including fiber optics and for tight-spot installation. Our range includes the benefits of stainless steel liquid tight conduits with a limited fire hazard covering for enhanced safety.

### Application Area

- ⦿ Smooth interior for easy wire pulling
- ⦿ Able to withstand high temperatures
- ⦿ Durable crush-proof construction
- ⦿ Corrosion and rust resistant

### Features

- ⦿ High mechanical strength
- ⦿ Highly flexible
- ⦿ Temperature range: -100°C to +400°C
- ⦿ IP rating: IP40 with standard fittings
- ⦿ Inherent low fire hazard product

### Size List

TRADE (SIZE IN INCH)	INSIDE DIAMETER (MM) (+/- 1)	OUTSIDE DIAMETER (MM) (+/- 1)
4	4 X 6	30 X 50 X 100
6	6 X 8	30 X 50 X 100
8	8 X 10	30 X 50 X 100
10	10 X 12	30 X 50 X 100



## Nylon Polymaid Flexible Conduit

Material : **Polyamide 6**

Color : **black (RAL 9005)**

Temperature: -40 deg cent to 105 deg cent ( 150 deg for short term)

Fire Protection: ul94vo

Protection degree: ip 67 in combination with conduit glands

### Properties

- ⦿ Flexible and excellent tenacity
- ⦿ Glossy surface small bending radius
- ⦿ High mechanical strength resistant to oil,
- ⦿ Acid and solvents anti friction
- ⦿ Free of halogen , phosphor and cadmium passed ROHS

### Application

- ⦿ Automobile wiring protection
- ⦿ Marine application and ship building
- ⦿ Machine cable protection
- ⦿ Robotic mechanical building
- ⦿ Electric control systems
- ⦿ Railway cable protection

### Size List

TRADE (SIZE IN INCH)	INSIDE DIAMETER (MM) (+/- 1)	OUTSIDE DIAMETER (MM) (+/- 1)
16	12.5	16.00
20	15.00	20.00
25	20.00	25.00
32	25.00	32.00
40	33.50	40.00
50	43.00	50.00



## Steel Wire Reinforce Flexible Conduit

Steel Wire Reinforce Flexible Conduit offered by us has a reinforcement of PVC insulated high carbon grade II ranging from 200 Uts Kg/mm<sup>2</sup> to 220 Uts Kg/mm<sup>2</sup> (United Tensile Strength). These are also available in high grade III for heavy duty pipes. Our range is available at industry leading prices and can be customized as required by our clients spread across the globe.

### Application Areas

- ⦿ These are used in machinery tool wiring conduits
- ⦿ Used in dust collectors for vacuum cleaners, air ducting for low temperature, gas or fume (low temperature) removal and others
- ⦿ It is useful for low pressure air intakes, electrical conducting for boards & panels and shrouds for railway coach wiring
- ⦿ These are also used as rag collector hoses in industrial machinery, in dust collectors for wood machinery, and as hospital cleaning equipment

### Size List

S.No.	INNER DIAMETER OF HOSE (MM)	STANDARD PKGS. (MTR)
1	10 MM	20 & Above
2	15 MM	20 & Above
3	20 MM	20 & Above
4	25 MM	20 & Above
5	30 MM	20 & Above
6	40 MM	20 & Above
7	50 MM	20 & Above
8	60 MM	20 & Above
9	75 MM	5 & Above
10	100 MM	5 & Above
11	125 MM	5 & Above
12	150 MM	5 & Above
13	175 MM	5 & Above
14	200 MM	5 & Above



## PVC Wire Reinforce Flexible Conduit

We offer PVC (Poly Vinyl Chloride) Wire Reinforced Flexible Conduits that are ideal for the coverage and protection of electrical cables & optical fibers.

The PVC Wire Reinforced Flexible Conduits are widely used in domestic & industrial applications. The chlorine in the PVC Wire Reinforced Flexible conduits permits them to be resistant against flame & water. Apart from the standard colors & dimensions that the PVC Wire Reinforced Flexible conduits are available in, these are also subjected to modification as per client's requirement. The PVC Wire Reinforced Flexible conduits are flexible and can be bent along the axis although these are reinforced with a rigid shock resistant. These have a smooth hole in the cross sectional area with sinuous architecture along the lateral surface.

### Application

- These PVC wire conduits are used to cover and protection of electrical cables and optic fibers.

### Properties

- Reinforced with a rigid shock resistant
- PVC spiral Bore smooth
- Very sinuous external

### Standard Colors

- Available in various colors for identification.
- Available in Oil Resistant Hose (Green)
- Available with pulling thread

### Size List

S.No.	INNER DIAMETER OF HOSE (MM)	STANDARD PKGS. (MTR)
1	10 MM	20 & Above
2	15 MM	20 & Above
3	20 MM	20 & Above
4	25 MM	20 & Above
5	30 MM	20 & Above
6	40 MM	20 & Above
7	50 MM	20 & Above
8	60 MM	20 & Above
9	75 MM	5 & Above
10	100 MM	5 & Above
11	125 MM	5 & Above
12	150 MM	5 & Above
13	175 MM	5 & Above
14	200 MM	5 & Above

# PACKAGING



To ensure safety and security of our products during transit, we pack each roll in PVC bags which are further packed in strong laminated HDPE woven sacks for protection against water and moisture.

These packagings are done by the packaging team which is headed by expert professionals.

## Contact us

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