

As a brand,  
Harson signifies  
Safety, Reliability &  
Durability

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Watch the videos and demos and get familiar with us and our product range at [youtube.com/hasonindia](https://youtube.com/hasonindia)



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Hum Hai Har Ghar Ki Neev,  
Apka Bharosa Apki Jeet

FR & FRLSH Wires

Multi Core Flexible Cables

Solar Cables

Submersible Wire

uPVC Conduit Pipe

Product Catalogue



CM/L No.3224239



CM/L No.8436178



# A Glimpse

At Harson , our focus on quality , finesse in execution and varied range has helped us establish ourself as one of the leading electrical brand in the industry.

It was in the year 1987 when Harlalka family started as a small trading company dealing in electrical goods.

During its course, the group gradually laid its foot in the manufacturing of wire and cables, pvc conduit pipe and fittings.

An ISO 9001:2015 certified company with three manufacturing units located in Delhi (India) for Wires, uPVC Conduit Pipes & Fittings, Electrical PVC accessories, Modular Switches & Switchgears and LED Lightings, Harson has made a mark in the industry creating its presence in every imaginable market segment.

Harson Wires and PVC Conduit Pipe are certified with Bureau of Indian standards along with approvals in various government and private institutions making it more reliable and trustworthy brand.



Approved & Certified By:



# Product Portfolio

Flame Retardant ( FR ) Multi Strand Single Core Wires

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Flame Retardant Low Smoke Halogen (FR-LSH) Cables

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Multi Core Flexible Cables

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Submersible Cables

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Solar Cable

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uPVC Conduit Pipe

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Casing Capping



# Wires & Cables

FLAME RETARDANT (FR) PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE

## Product Features



Conductor: Electrolytic grade bright annealed copper.

Insulation: FR grade PVC (RoHS Compliant)

Double Insulation with Uniform Bunching

Oxygen Index: Minimum 29%.

Temperature Index: Minimum 250°C at 21% Oxygen Index.

Insulation Colours: Red, Yellow, Blue, Green, Black, Grey, White.

Higher Flexibility ensures easy handling and longer life

Excellent fire retardant properties

## Application Range



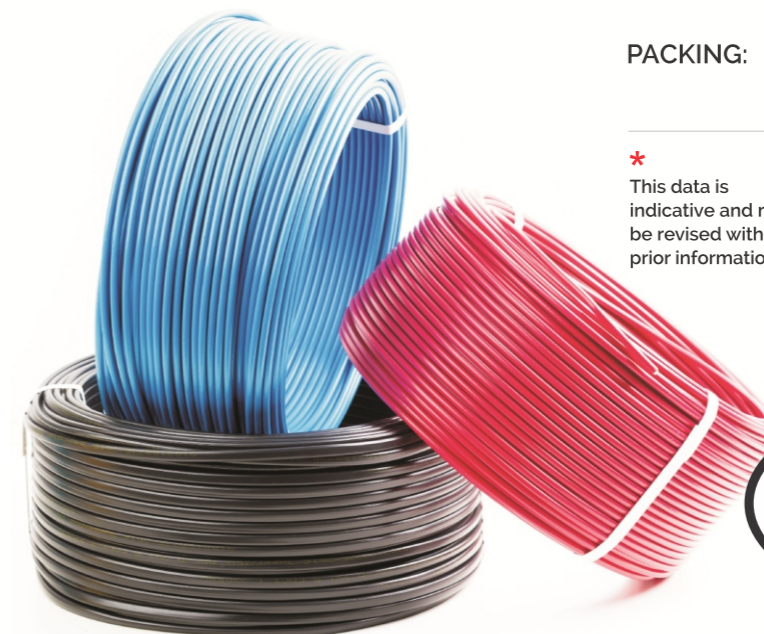
Building cable for installation on walls and in concealed conduit pipes

For lightings in residential houses, complex, hotels, commercial buildings, hospitals & IT parks

Ideal for wiring in confined spaces like electric panels, machinery, appliances etc. up to 1100 V

## FR PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE Conforming to IS 694:2010

Nominal Cross Sectional Area Of Conductor (Sq. mm)	Number/ Nominal Diameter Of Wire (No. / mm)	Nominal Thickness Of Insulation (mm)	Approx. Overall Diameter (mm)	Current Rating Amp (In Conduit)	Maximum Resistance at 20°C Ohm / Km
0.75	24/0.20	0.60	2.40	7	26.00
1	14/0.30	0.70	2.80	11	18.10
1.5	22/0.30	0.70	3.10	13	12.10
2.5	36/0.30	0.80	3.80	18	7.41
4	56/0.30	0.80	4.20	24	4.95
6	84/0.30	0.80	4.80	31	3.30
10	141/0.30	1.0	6.20	42	1.91



PACKING: **90** Meters  
in box packing

**180** Meters  
in polybag packing

\* This data is indicative and may be revised without prior information

\* As per Conductor class-2 & 5 of IS 8130

\* Bigger lengths and special colours are available on demand.

\* The Number and diameter of the conductor strands are for reference only, actual specifications may vary



# Wires & Cables

FLAME RETARDANT LOW SMOKE WITH REDUCED HALOGEN PVC Cables

## Product Features

Conductor: Electrolytic grade bright annealed copper.

Insulation: FR- LSH grade PVC (RoHS Compliant)

Temperature Index: Minimum 250°C at 21% Oxygen Index.

Smoke Density : Less than 60%

Halogen acid gas evolution: Less than 20%

Insulation Colours: Red, Yellow, Blue, Green, Black.

Very less toxic fumes emitted

Self Extinguishing

Surpasses Flammability test



### FR-LSH Cables

Harson Fire Retardant Low Smoke Halogen wires comes to safeguard human life whenever fire breaks -out in any building/complex by not emitting the toxic black smoke gas and retarding spread of wire



## Application Range

Building cable for installation on walls and in concealed conduit pipes

For lightings in residential houses , complex , hotels , commercial buildings , hospitals & IT parks

Ideal for wiring in confined spaces like electric panels, machinery, appliances etc upto 1100 V

## FR-LSH PVC Insulated Single Core Multi-Strand Copper Unsheathed Cable Conforming to IS 694:2010

Nominal Cross Sectional Area Of Conductor (Sq. mm)	Number/ Nominal Diameter Of Wire (No. / mm)	Nominal Thickness Of Insulation (mm)	Approx. Overall Diameter (mm)	Current Rating Amp (In Conduit)	Maximum Resistance at 20°C Ohm / Km
0.75	24/0.20	0.60	2.40	7	26.00
1	14/0.30	0.70	2.80	11	18.10
1.5	22/0.30	0.70	3.10	13	12.10
2.5	36/0.30	0.80	3.80	18	7.41
4	56/0.30	0.80	4.20	24	4.95
6	84/0.30	0.80	4.80	31	3.30
10	141/0.30	1.0	6.20	42	1.91

PACKING: **90** Meters in box packing

**180** Meters in polybag packing

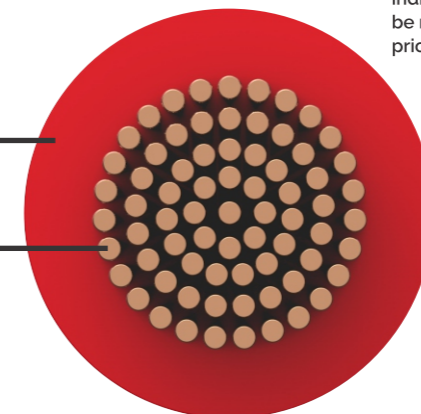
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\* As per Conductor class-2 & 5 of IS 8130

\* Bigger lengths and special colours are available on demand.

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FL-LSH PVC  
Multi Strand Flexible Copper Conductor



# Multi Core Flexible Cables

## Product Features



Conductor: Flexible Electrolytic Tinned copper strands

Sheath & Insulation: FR-LS or Standard PVC

Sheath & Insulation Colour: Black and Core insulation is available in Red, Yellow, Blue, Green or as per BIS Norms.

Excellent Fire & Heat retardant characteristics.

Highly flexible in nature facilitate easy handling in installation

Rugged yet flexible for industrial use

## Technical Specifications

TYPE OF ISULATION	TYPE OF SHEATHING	APPLICABLE STANDARDS
STANDARD PVC	STANDARD PVC	IS 694
FRLS PVC	FRLS	IS 694

## Application Range



Multiphase application, industrial use and for commercial uses.

Various Electrical appliances

Interconnects solar panels and other components of photovoltaic system.

## Multi Core Round Insulated Copper Conductor and Sheathed Flexible Cables , 1100 Voltage Grade Conforming to IS 694:2010

Conductor Area (Sq mm)	No.& Size of each strand ( mm )	Nominal Thickness of Insulation (mm)	Nominal Thickness Of Sheath (mm)			Approximate Over all Diameter (mm)			Current Rating Amp	Maximum Resistance at 20°C Ohm / Km
			Two Core	Three Core	Four Core	Two Core	Three Core	Four Core		
0.50	16/0.20	0.60	0.90	0.90	0.90	6.20	6.60	7.20	4	39.00
0.75	24/0.20	0.60	0.9	0.9	0.9	6.80	7.20	7.90	7	26.00
1	32/0.20	0.60	0.9	0.9	0.9	7.00	7.50	8.10	12	19.50
1.5	30/0.250	0.60	0.9	0.9	1.0	7.6	8.10	9.00	16	13.30
2.5	50/0.250	0.70	1.0	1.0	1.0	9.0	9.6	10.50	22	7.98
4	56/0.30	0.80	1.0	1.0	1.0	10.60	11.30	12.40	29	4.95
6	85/0.30	0.80	1.2	1.2	1.4	12.60	13.40	15.20	37	3.30
10	141/.30	1.00	1.3	1.4	1.4	14.80	16.00	17.60	52	1.91
16	126/.40	1.00	1.4	1.4	1.4	17.00	18.20	20.00	70	1.21

PACKING: **100** Meters bundle packing | **10** mm<sup>2</sup> above in wooden drum packing

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# Submersible Cables

Harson Submersible cables are designed and manufactured to perform in adverse weather conditions

## Product Features

Conductor : Electrolytic grade bright annealed copper conductor.

Insulation: The Inner cores are insulated with special grade PVC formulated compound

Outer Sheath : Specially formulated PVC (ST-1 & ST-3)

Insulation Colour: Core insulation is available in Red, Yellow, Blue. Green and Black or as per BIS Norms.

Minimum Power Losses

Better ageing properties

Higher operating temperature with enhance insulation characteristics

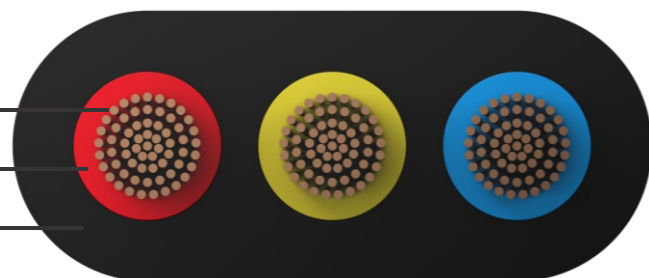
Perfect sheathing for underwater application



## Application Range

Used for supplying electrical connection to the submersible pump motors.

Flexible Copper Conductor  
PVC Insulation of Cores  
PVC Sheath



## Three Core Flat Copper Conductor PVC Insulated & Sheathed Submersible Cables Conforming to IS 694:2010

Nominal Cross Sectional Area Of Conductor (Sq. mm)	Number/ Nominal Diameter Of Wire (No. / mm)	Nominal Thickness of Insulation (mm)	Nominal Thickness of Sheath (mm)	Approximate Over All Diameter (mm)	Current Rating Amp	Maximum Resistance at 20°C Ohm/ Km
1.5	22/0.30	0.60	0.90	10.5 × 4.7	16	12.10
2.5	36/0.30	0.70	1.0	12.5 × 5.5	22	7.41
4	56/0.30	0.80	1.0	14.9 × 6.30	29	4.95
6	85/0.30	0.80	1.10	17.5 × 7.30	37	3.30
10	141/0.3	1.0	1.4	23.7 × 9.9	52	1.91
16	226/.3	1.0	1.4	28.0 × 11.4	70	1.21

PACKING: **100** Meters in box packing | **540** Meters in wooden drum packing

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- \* As per Conductor class-2 & 5 of IS 8130
- \* Bigger lengths and special colours are available on demand.
- \* The Number and diameter of the conductor strands are for reference only, actual specifications may vary



# Solar Cables

Harson Solar Cables are a step towards creation of environment friendly cables for harnessing electricity through solar-power. robust, rugged and more versatile than ever before



## Product Features

Conductor: Flexible Electrolytic Tinned fine copper strands

Type of Insulation & Sheath: Cross linked FR-LSZH

Sheath & Insulation Colour: Black or Red Insulation with Black Sheath as per norms

Resistant to Fire and Halogen free

UV & Ozone resistant, Chemical and Oil resistant

Works at large temperature range

High mechanical strength in extreme weather conditions

Tested to last for several years



## Application Range

Interconnects solar panels and other components of photovoltaic system

Photovoltaic power systems

Interconnects solar panels and other components of photovoltaic system.

## Dimensions & Current Carrying Capacity of Solar DC Cables from PV Module to Array Junction Box as per TUV specifications EN 50618:2014

Single Core Size (Sq mm)	Wire Diameter Max. (mm)	XL-LOSH Insulation Thickness Nominal (mm)	XL-LOSH Sheath Thickness Nominal (mm)	Overall Diameter Nominal (mm)	Conductor Resistance Max. (Tinned Copper Ohm/km)	Current Carrying Capacity of DC Solar Cable with XL-LOSH Insulation & XL-LOSH Sheathing at 60 Deg. C		
						Single Cable in Air (Amp.)	Single Cable on Surface (Amp.)	Two adjacent Cable on Surface (Amp.)
1.5	0.26	0.7	0.8	5.0	13.70	30	29	24
2.5	0.26	0.7	0.8	5.0	8.2	40	39	33
4.0	0.31	0.7	0.8	6.0	5.0	50	52	44
6.0	0.31	0.7	0.8	6.5	3.3	70	67	57
10	0.41	0.7	0.8	7.5	1.95	98	93	79
16	0.41	0.7	0.9	8.5	1.24	132	125	107

PACKING: In Wooden Drums

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- \* The Number and diameter of the conductor strands are for reference only, actual specifications may vary





# PVC Conduit Pipe

Rakhe Apke  
Ghar ki Wiring  
ko Surakshit

Harson Conduit PVC Pipes & Fittings are manufactured from a specially formulated unplasticised polyvinyl chloride (uPVC) on fully automatic twin screw technology to meet the most stringent International standards. Pipes with Super High Impact materials pass from series of quality tests which make them safe to use in harsh environments. The products are manufactured in accordance with IS: 9537 Part 3

## Product Features



Virgin Suspension Grade PVC of K-67

Flame Retardant

Smooth & Glossy Finish

Corrosion Free Material

High Thermal and Bending Strength

Available in Light, Medium & Heavy Mechanical Stress

## Application Range



Wiring protection in all kind of buildings

Embedded under concrete for internal wiring

Used in external wiring as an alternative to trunks

## Dimensions of Round uPVC Conduits as per IS:9537 Part III

Nominal Size (mm)	Maximum Outside Diameter (mm)	Tolerance Of Outside Diameter (mm)	Minimum Internal Diameter (mm)		
			Light Mechanical Stress (LMS)	Medium Mechanical Stress (MMS)	Heavy Mechanical Stress (HMS)
20	20	0.30	17.40	16.90	15.80
25	25	0.40	22.10	21.40	20.60
32	32	0.40	28.60	27.80	26.60
40	40	0.40	35.80	35.40	34.40

## Standard Packaging

Nominal Size (mm)	Number of Pipes	Quantity in Meters
20 mm	40	120
25 mm	25	75
32 mm	15	45
40 mm	10	30

Each bundle is packed in recycable polybag packing

\* This data is indicative and may be revised without prior information



# Casing Capping

Casing Capping is one of the oldest and simplest wiring system all over the world and also known as cable trunking , PVC profile , casing patti .Harson Casing Capping are manufactured from a specially formulated unplasticised polyvinyl chloride on fully automatic twin screw technology delivering high mechanical and impact strength profiles

## Product Features

Virgin Suspension Grade PVC of K-67

Flame Retardant properties

Secure and Firm Locking

Corrosion Free Material

Durable and Impact Resistant

## Application Range

Used to enclose and protect unconcealed wiring

Wiring protection in all kind of buildings

Installed where easy & frequent maintenance of wiring is required



## Technical Specification Of Casing & Capping

S.No	Nominal Size (mm)	Max. Outside Diameter (mm)	Min. Outer Diameter (mm)	Tolerance Of Outside Diameter (mm)	Min. Internal Diameter (mm)	Wall Thickness (mm)
Double Lock						
1	20 x 12	20 x 12	19.8 x 11.90	0.20	18.80 x 10.80	1.00
2	25 x 16	25 x 16	24.75 x 15.85	0.30	23.60 x 14.65	1.20
3	30 x 15	30 x 15	29.75 x 14.85	0.30	28.35 x 13.40	1.20
4	38 x 20	38 x 20	37.75 x 19.85	0.30	36.40 x 18.40	1.20
Single Lock						
5	32 x 12	32 x 12	31.75 x 11.85	-0.20	30.6 x 10.80	1.2

## Standard Packaging

Length of each casing is 2 meters which are packed as 100 pc in recyclable polythene bundles



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