

The Manager
Listing Department
The National Stock Exchange of India Limited
'Exchange Plaza', C-1 Block G,
Bandra Kurla complex,
Bandra (E), Mumbai 400051.

Date: **19.07.2024**

NSE Symbol: **VMARCIND**

ISIN: **INE0G XK01018**

Subject: Disclosure-Updates- New Product Launch

Empowering India with Revolutionary - Flexi Tough eB-HFFR Wires & eB+ Power Cable

Haridwar, India – July 19, 2024 – V-Marc India Ltd, is pleased to inform that the company has launched two new products in the electrical domain, 'Flexi-Tough eB-HFFR' wire and "eB+ power cables". We are the first wires and cable company in India which is offering this range of products. Manufactured using state-of-the-art E-Beam crosslinked technology, these halogen-free flame retardant (HFFR) wires set a new standard in safety, efficiency, and environmental sustainability.

The 'Flexi-Tough eB-HFFR' wires and "eB+ power cables" offer exceptional features such as the ability to withstand temperatures up to 150 degrees Celsius and more than 80% extra current carrying capacity, significantly enhancing durability and performance. Additionally, the cables in this series provide over 30% more current capacity. These advancements not only promise a lifespan of over 60 years but also markedly diminish fire hazards, producing less dangerous smoke and ensuring greater visibility in smoke-filled environments.

Emphasizing eco-friendliness, these wires save up to 25% energy and are entirely PVC-free, aligning with the world's sustainability efforts. "Our new 'Flexi-Tough eB-HFFR' wires and "eB+ power cables" are a testament to V-Marc's commitment to innovation and our dedication to providing solutions that meet the pressing needs of both today and tomorrow," said the Managing Director of V-Marc India Ltd. "We are setting new benchmarks for quality and safety in the electrical products industry." Preliminary customer feedback indicates that this product delivers excellent results, which will significantly enhance our company's growth and profitability.

We “**V-Marc India Ltd**” is among the global leaders in providing reliable and consistent quality of products. By supplying our optimally priced high-quality products we enable our clients to achieve more and outperform their competitors and stay ahead of the innovation curve. Customers' satisfaction is our prime objective as it is the foundation stone of our strategic Vision & Mission.

We have earned trust and reputation by winning the customers’ confidence. A very huge quantity of our cables has been in operation across India.

The Organization is also committed to comply with all applicable environment, health & safety legislations and all other requirements of existing & prospective buyers.

We believe that Sustainability and efficiency can be achieved, home-grown expertise and own manufacturing. V-Marc India Ltd explore the improvement of efficiency of power transmission quality and save the cost, time, energy by unique sustainable solutions.

You are requested to take the above information on the record.

Thanking You,

Yours Faithfully,

For **V-Marc India Limited**

Anuj Ahluwalia

Company Secretary

Encl: Details of Product



Empowering India with Revolutionary Flexi Tough eB-HFFR Wires & eB⁺Power Cables



NO PVC
NO SMOKE
NO FIRE

Green Initiative By V-MARC India Limited



ABOUT COMPANY

V-Marc India stands as a beacon of trust and excellence in electrical manufacturing industries, a distinguished Public Limited company renowned for its commitment to innovation and quality.

Established in 2006, V-Marc India is embarking on significant Mega Expansion with a new state-of-the-art manufacturing unit in our dev bhoomi home state Uttarakhand.

Our commitment to excellence was recognized in 2016 when we were awarded the MSME Unit of the Year by the National Productivity Council under Make in India. Looking ahead with robust extended capabilities, our new unit sets milestone with the production of higher voltage cables up to 33kV.

At V-Marc India, customer satisfaction is the foundation stone of our strategic Vision & Mission. We continue to embark on the future with a commitment to high-quality products and a customer-centric approach.

Our manufacturing unit is well equipped with modern plant & machinery and have complete testing equipments backed up with well qualified and trained personnel, quality systems with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 & ISO 27001:2022 accreditation with strong supply line of suppliers i.e. NALCO, BALCO, HINDALCO, Dow, Borouge, KLJ Ltd., KALPENA Ltd., Quality is our main objective for all activities at "V-MARC India" Brand. We adopt stringent control right from the raw material stage up to finished cable with process control during the manufacturing stage. Besides this, we hold BIS license for IS:694:2010, IS:17048:2018 IS:1554 (Part-1)/1988, IS-7098 (PART 1-1988), IS:14255/1995. IS:7098 (Pt-2 &3) IS-398 (Pt-2:1996)

Flexi Tough Electron Beam Cross-Linked

Single and Multicore Flexible Cables

Conductor: The conductors drawn from 99.97 % bright electrolytic grade Copper-Class- 2/5 with more than 100% conductivity. Annealed plain copper wires are bunched together to get uniformity of resistance and flexibility as per reference standards.

Insulation: The bunch conductors are insulated with specially formulated eBeam XL Halogen Free flame-retardant compound with a high insulation resistance value. These cables are insulated with specially formulated & in-house manufactured HFFR compound by incorporating eB technology that enhances electrical, thermal, fire and mechanical property of wire & cables.

Sheath: HFFR EBXL (for multicore cable)

Products Range :

- Single Core -- Up to 300 sq mm
- 2/3/4 Core -- Up to 50 sq mm

Operating Temperature Range : Up to Max. 150°C

Colour:

Single Core -- Red, Yellow, Blue, Black, Green, Gray, White (Other Colours available on Request)

Multicore – Black

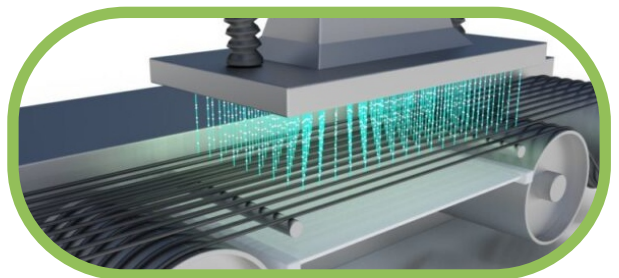


Technical Comparison chart

S. No.	Traditional Wire	Flexi-Tough Wire
1	Conductor Operating Temp. 70°C(Max)	Conductor Operating Temp. 150°C (Max.)
2	Short circuit temperature 160°C	Short circuit temperature 325°C
3	Hot Set – Not Available	Hot Set Property at 200°C = 50% (Max)
4	Smoke Emission (Light Transmission) 40%	Smoke Emission (Light Transmission) 95%
5	Smoke Density 60%	Smoke Density 5%
6	HCl 20% Maximum	HCL 0%
7	Oxygen Index 29% Minimum	Oxygen Index 32.5 % Minimum

Features : Flexi Tough eB-HFFR Wires

- Flexi Tough wires has more than 80% extra current carrying capacity in comparison to the conventional Wires besides Improving the Cable Life More than Double.
- These Wires are Insulated with a Special Grade E-Beam XL HFFR Compound. The Insulation is Far Superior in Terms of Critical Oxygen and Temperature Index in comparison to the other PVC compound.
- Flexi Tough HFFR wires provide superior fire resistance.
- Flexi Tough wire will not produce smoke during contact with flame .
- Flexi Tough wire do not release poisonous gases.
- Higher Thermal ageing up to 150°C .
- Longer operating Life Span of more than 60 years.
- Flexi Tough wire are environmentally friendly and non-toxic.





Solar DC Cable

Construction:

Conductor: Electrolytic annealed Flexible tinned Copper conductor IEC 60228, Class 5 / IS: 8130

Insulation/sheath: (XLPO) electron beam cross linked halogen free flame retardant compound.

Products Range : up to 240 sqmm

Material Properties Like fire performance, Smoke emission, Halogen emission, Toxicity Ozone Resistant, Weathering Resistance are as per reference Indian / International Standards.

Features

- Electron Beam Cross Linked
- Better UV & ozone resistance and improved weather resistance in adverse conditions
- Improved oil, chemical resistance & improved crack resistance
- Improved Mechanical properties of the cables in elevated temperature conditions
- Better ageing resistance
- Halogen Free, Flame Retardant, Fire Retardant, Low Smoke Emission
- Max. Temp. at Conductor : 150°C (20,000h)
- Test Voltage : 6500V AC for 5 minutes
- Short Circuit Temp : 325°C.
- RoHS compliant
- Flexibility & Stripability: for fast and easy installation



eB⁺ Power Cables

Product Construction:

Conductor: Aluminium conductor complying with IS: 8130

Insulation: eBeam Cross linked insulated materials 125°C

Inner sheath: PVC

Armouring: Galvanized GI Strip/Wire

Outer sheath: PVC ST-2 / HFFR EBXL

Technical Data:

Operating Temperature: -15°C to 125°C

Short Circuit Temperature: 300°C

Bending radius (min): 12 x Cable Dia

Rated Voltage : 1.1 KV

Test Voltage: 3.0 kV for 5 mins.

Specification: IS:7098 Part-1



Advantages Of e-Beam Cross-Linking Over Conventional Curing System

S. NO	Parameters	Chemical Curing	e-Beam Cross Linking
1	Cross-Linking Bond	C – S x -C or C – O x -C	C - C
2	Continuous Operating Temperature	90°C	125°C
3	Estimated Life of Cable	20-25 Years	40 Years
4	Variation in Mechanical Parameters after Ageing at 135°C / 7 Days.	-25%	-5%
5	Volume Resistivity at Room Temperature	1 x 10 ¹⁴ Ohm-cm	1 x 10 ¹⁵ Ohm-cm
6	Current Carrying Capacity (For a cable of size 25 Sqmm)	123 amp	160 amp
7	Effect on High Overload Current	Burned	Not Burned
8	Cold Bend Test	-15°C	-25°C
9	Flammability Test IEC 60332-Part 3	Cat. - C	Cat. - A
10	Blooming Effects	Chances to bloom to Outer Layer Leading to surface deterioration.	No Effect.
11	Polymer Degradation during cross-linking	Yes As cross-linking occurs at higher temperature (90°C - 150°C)	No As EB Cross Linking occurs at room temperature
12	Oxidative degradation	Yes	No

Features: eB⁺ Power Cables

- eBeam Cross Linked
- The electron beam Cross Linked “Wires and Cables” enhances Mechanical, Electrical, Thermal, Chemical & Weathering properties
- Higher temperature withstand capability
- High current carrying capacity is more than 30% in comparison to the traditional cables
- Also prevents fires due to overload short circuits and thus saves precious lives and property
- High Insulation resistance at elevated temperature
- Soldering iron resistant
- Resistance to corona effect
- Better resistance to most chemicals & acids
- Low direct electric losses
- Reduces Leakage current



PRESTIGIOUS CLIENTS





V-MARC

INDIA

Powering Progress Sustainably

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