



EBXL Flexi-Tuf Submersible Cable



Reliable Power,
Beneath the Surface.



Who We Are

V-MARC is India's leading electrical equipment manufacturer, with a formidable presence Wires & Cables, Modular Switches & Switchgears, Fans, and Solar Solutions.

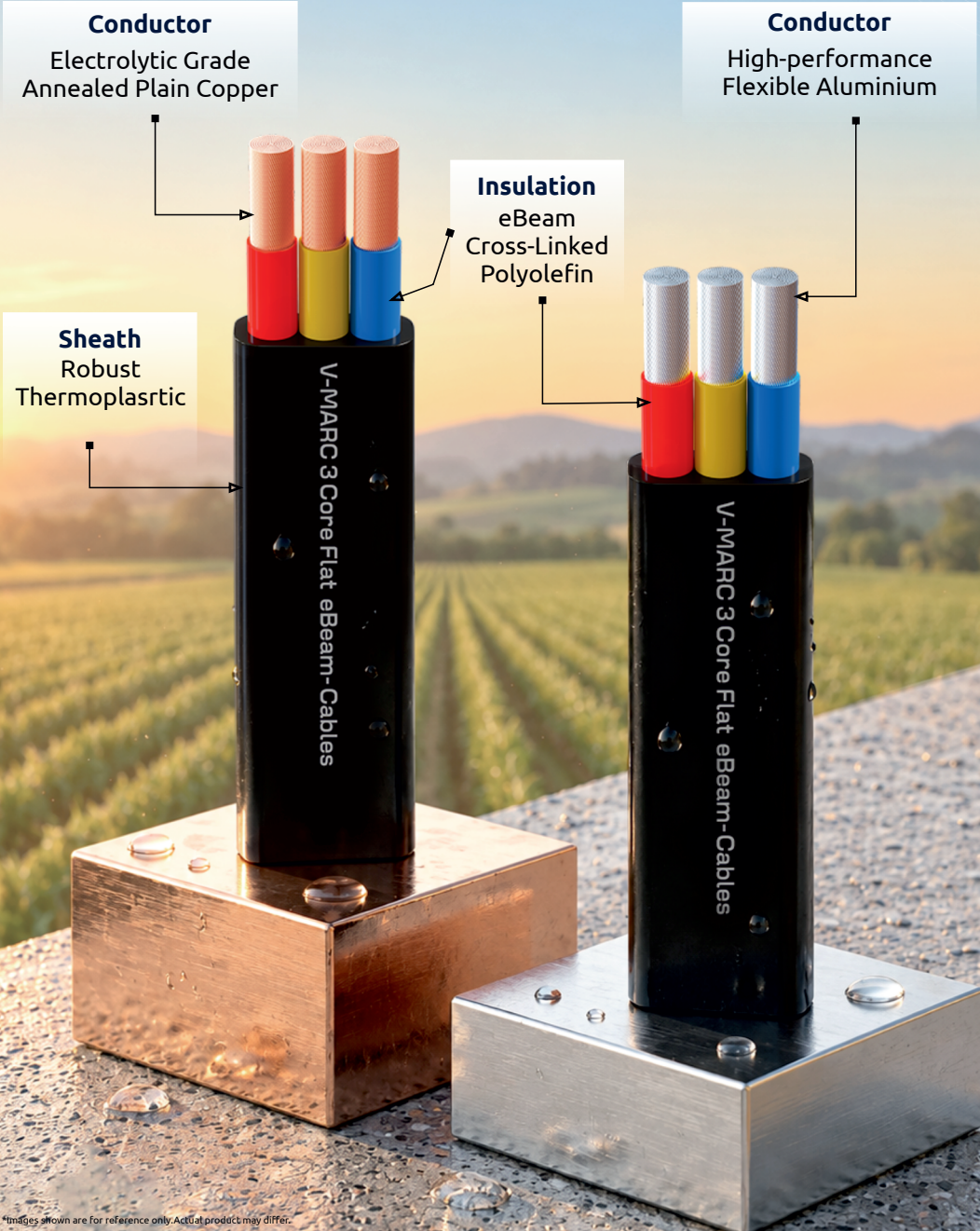
Our backward-integrated facilities possess capabilities across product design and development, component design, tool manufacturing, and commercial production. We are an established brand with a proven track record spanning over two decades.

V-MARC enjoys strong brand recall across various customer segments. Through our innovative offerings, certified to conform to Indian & international standards such as ISI, CE, and KEMA, we are proud to support the electrical requirements of an emerging India.

As one of India's most trusted and reliable brands in the electrical industry, we are delighted to be electrifying an energized India and moving in step with the nation's growth agenda.



Cable Construction



Product Construction	Technical Data
Conductor : Electrolytic Grade	Operating Temperature : 125°C
Annealed Plain Copper	Short Circuit Temperature : 250°C
Insulation : eBeam Cross-Linked Polyolefin	Bending Radius (min) : 4 X Overall Diameter
Sheath : Robust Thermoplastic Sheath	Voltage Grade : Up to and Including 1100 V
	Test Voltage : 3.0 kV for 5 Minutes

Flexi-TUF Copper Submersible Cable v/s Other Brands

Copper Size (sq.mm)	Other Conventional Flat Copper Submersible PVC Cable	Flexi Tuf Copper EB-XLPO Submersible Flat Cable
1.5	11	19.8
2.5	18	32.4
4	24	43.2
6	31	55.8
10	43	77.4
16	57	102.6
25	76	136.8



Parameter	Other Conventional Flat Copper Submersible PVC Cable	Flexi Tuf Copper EB-XLPO Submersible Flat Cable	% Improvement
Operating Temperature	70°C	125°C	78%
Short Circuit Withstand	160°C	250°C	56%
Dielectric Strength	Low	Very High	Significant
Aging Resistance	Weak	Outstanding	High
Voltage Endurance	Poor	Excellent	High
Tensile Strength	Low	High	High
Motor Heating	More Heating	Cooler Motor	High
Voltage Stability	Drops Under Load	Stable Voltage	High
Pump Lifting Efficiency	Moderate	Better Due to Stable Torque	High
Flexibility	Poor	Excellent	High
Water Absorption	High	Negligible	~100%
Submersion Life	Low	Very High	>200%
Flame Retardance	Low	High	High
Chemical Resistance	Weak	Strong	High
Service Life	8-10 years	18-20 years	~120

*Images shown are for reference only. Actual product may differ.



Flexi-TUF Aluminium Submersible Cable

Product Construction	Technical Data
Conductor : High-performance Flexible Aluminium Conductor	Operating Temperature : 125°C Short Circuit Temperature : 250°C
Insulation : eBeam Cross-Linked Polyolefin	Bending Radius (min) : 4 X Overall Diameter
Sheath : Robust Thermoplastic Sheath	Voltage Grade : Up to and Including 1100 V
	Test Voltage : 3.0 kV for 5 Minutes

Flexi-TUF Aluminium v/s Copper Submersible Cable Comparison

Copper Size (sq.mm)	Aluminum Size (+1)	Current Carrying Capacity of Branded Conventional Flat Copper Submersible PVC Cable	Current Carrying Capacity of Flexi Tuf Aluminium EB-XLPO Submersible Flat Cable (+1 Size)
1.5	2.5	11	15.4
2.5	4	18	25.2
4	6	24	33.6
6	10	31	43.4
10	16	43	60.2
16	25	57	79.8
25	35	76	106.4



Parameter	Other Conventional Flat Copper Submersible PVC Cable	Flexi Tuf Aluminium EB-XLPO Submersible Flat Cable	% Improvement
Current Carrying Capacity	Low to Moderate	High CCC even at AL	~40-60%
Thermal Rating	70°C	1250C	~78%
Short Circuit Endurance	160°C	2500C	~56%
Starting Torque Stability	Moderate	High	High
Startin Current Endurance	Weak	Stron	High
Motor Heating	More Heating	Cooler Motor	High
Voltage Stability	Drops Under Load	Stable Voltage	High
Pump Lifting Efficiency	Moderate	Better Due to Stable Torque	High
Mechanical Flexibility	Low (Stiff)	High Flexibility	High
Submersible Performance	Moderate	Superior (No swelling)	High
Water Resistance	Weak	Very Strong	~100%
Chemical Resistance	Weak	Stron	High
Conductor Material	Copper (heavy)	Aluminium (Light, Economical)	Cost-40%
Overall Weight	High	Lower	Better Handling
Service Life	8-10 years	18-20 years	~120%

*Images shown are for reference only.Actual product may differ.

Unique Features



Current Carrying Capacity

80% Higher (Copper Type)
40% Higher (Aluminum Type)



Superior Overload Bearing Capacity

Designed to handle extreme electrical loads with ease.



Negligible Faults

High melting point insulation eliminates risk of failure.



2x Longer Life

Engineered with e-Beam technology for unmatched durability.



Abrasion-Resistant Armor

Damage is nearly impossible ensuring long-term reliability.



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Our Product Range



Building Wire



Flexi-Tuf Submersible Cable



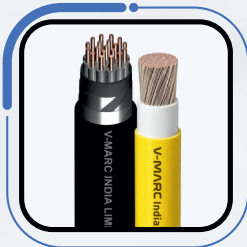
HT/LT Cables



Solar Solutions



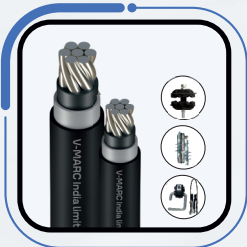
Data Center Cables



Railway Cables



HTLS Conductor



MVCC & Accessories



Light Duty Cables



Fan



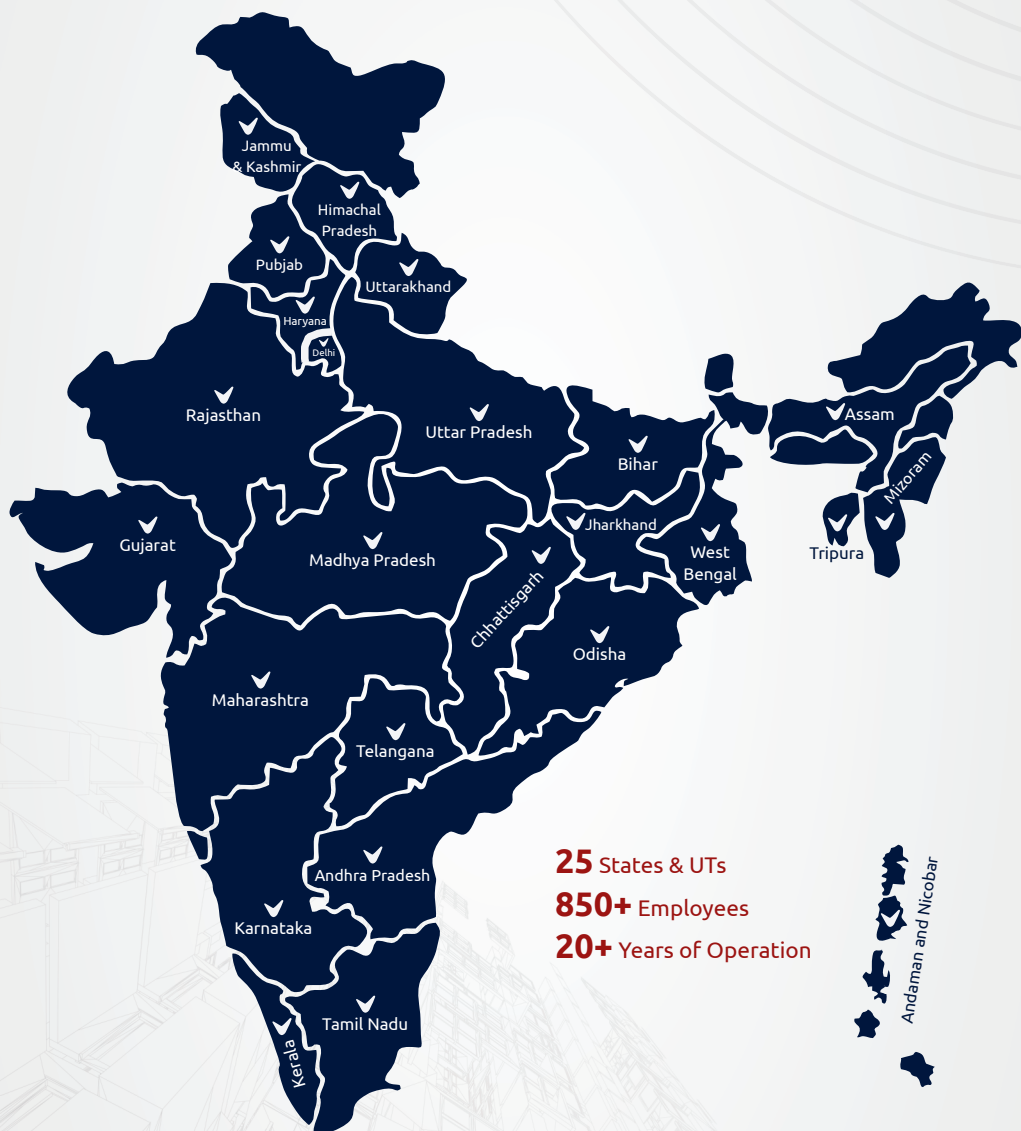
Switchgears



Switches

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Our Presence



25 States & UTs

850+ Employees

20+ Years of Operation

Registered Office :

V-MARC INDIA LIMITED

Plot No.3 & 4, 18 & 20A, Sector-IIIDC, SIDCUL, Haridwar, Uttarakhand - 249403



+91-7055521808



info@v-marc.in



www.v-marc.com