

Keeping your home safe every moment, every day.

Built for the future, powered by technology and innovation. V-MARC wires and cables designed to perform in every condition stronger, safer, and dependable.

Our Product Range



Ultra Safe 150



Heat Safe 90



eB+ Power Cables



Solar Dc Cables



Fire Survival Cables



MVCC & Accessories



HT Power Cables



PVC Multicore Cables



Switches



Fans



Switchgears



Solar Street Light

Our Presence

- | | | | | | |
|-----------------|----------------|------------------|-----------------|--------------|----------------|
| Andaman Nicobar | Andhra Pradesh | Assam | Bihar | Chhattisgarh | Goa |
| Gujarat | Haryana | Himachal Pradesh | Jammu & Kashmir | Jharkhand | Madhya Pradesh |
| Mizoram | Odisha | Punjab | Rajasthan | Telangana | West Bengal |



V-MARC India Ltd. Offices

- | | |
|--|--|
| » Head Office
Plot No.3, 4, 18 & 20A
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Trapezoid IT Park, Phase 2, Sector-62
Noida, Uttar Pradesh — 201309 |
| » Mumbai
401 Acme Plaza, Opp. Sangam Theatre
Andheri Kurla Road, Andheri (East)
Mumbai+ Maharashtra - 400093 | » Chennai
2/8 B, Anbu Valarmathi Nagar
Vadaperumbakkam
Chennai, Tamilnadu -600060 |
| » Cochin
BS 8, Heavenly Plaza, Civil Lines Rd
Vazhakkala, Cochin, Kerala-682030 | |



Get In Touch

India's 1st Flexi-Tuf
EBXL Submersible Cable

Green Initiative By V-MARC India Limited

Flexi-TUF Copper Submersible Cable

v/s Other Brands

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

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

Flexi-TUF Copper Submersible Cable

Product Construction :

Conductor : Electrolytic Grade Annealed Plain Copper
Insulation : eBeam Cross-Linked Polyolefin
Sheath : Robust Thermoplastic Sheath

Technical Data

Operating Temperature : 125°C
Short Circuit Temperature : 250°C
Bending Radius (min) : 4 X Overall Diameter
Voltage Grade : Up to and Including 1100 V
Test Voltage : 3.0 kV for 5 Minutes



Flexi-TUF Aluminium Submersible Cable

Product Construction :

Conductor : High-performance Flexible Aluminium Conductor
Insulation : eBeam Cross-Linked Polyolefin
Sheath : Robust Thermoplastic Sheath

Technical Data

Operating Temperature : 125°C
Short Circuit Temperature : 250°C
Bending Radius (min) : 4 X Overall Diameter
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

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 ears	18-20 ears	~120%

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

Built to outlast Every depth

Unique Features



2x Longer Life
Engineered with e-Beam technology for unmatched durability.

Superior Overload Bearing Capacity
Designed to handle extreme electrical loads with ease.



Current Carrying Capacity
80% Higher Current Carrying Capacity (for Copper Type)
40% Higher Current Carrying Capacity (for Aluminum Type)

Abrasion-Resistant Armor
Damage is nearly impossible, ensuring long-term reliability.



Negligible Cable Faults
High melting point insulation eliminates risk of failure.

