

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



FLEXI-TUF



eB+ POWER CABLE



SOLAR DC CABLE



HT POWER CABLE



PVC MULTICORE CABLES



MULTISTRAND CABLE



MCB'S & RCCB



FAN



SWITCHES

Our Presence

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



Our Offices

- » **Registered/Head Office**
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Haridwar, Uttarakhand - 247667
- » **Noida Office**
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Cochin, Kerala-682030
- » **Mumbai Office**
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- » **Chennai Office**
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3 CORE FLAT EBXL
SUBMERSIBLE
CABLE

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

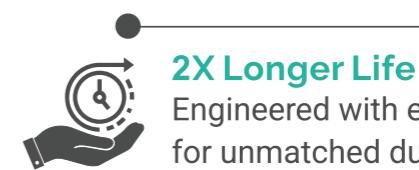
Flexi-TUF Aluminium v/s Copper Submersible Cable Comparison

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	125°C	~78%
Short Circuit Endurance	160°C	250°C	~56%
Starting Torque Stability	Moderate	High	High
Starting Current Endurance	Weak	Strong	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	Strong	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%

Copper Size	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.

