



**WIRES YOU CAN TRUST,  
QUALITY YOU CAN COUNT ON**

**STRONG WIRES. STRONGER BONDS.**





# NABL

Natraj Industries has set a benchmark in product quality by achieving NABL (National Accreditation Board for Testing and Calibration Laboratories) accreditation, showcasing its capability to conduct international-level quality evaluations for wires and cables. Additionally, the company has a DSIR-recognized technology center within its cable division, reinforcing its commitment to innovation and excellence. NABL, an autonomous body under the Department of Science and Industrial Research (Government of India), oversees this accreditation.

As the first private facility of its kind in India, the NABL-accredited laboratory is fully equipped to meet international standards for testing a wide range of cables, up to 220 KV grade, PVC cables, flexible cables and fire survival cables. The lab adheres to Indian Standards. It also conducts eight types of fire tests to evaluate and demonstrate the fire- retardant behavior of cables.



# ABOUT THE COMPANY

## NATRAJ INDUSTRIES

Natraj Industries, a distinguished name in the cable manufacturing industry, is one of the oldest and most renowned manufacturers of electric wires, coaxial cables, submersible cables, XLPE insulated cables, and flexible cables in India.

Established in 1978 by its visionary founder, Shri Sudhir Kumar, the company has grown from humble beginnings to become a leader in its field. Shri Kumar's foresight, unwavering determination, and dedication, combined with the expertise of his professional team, state-of-the-art infrastructure, robust marketing network, and a commitment to customer satisfaction, have been the driving forces behind Natraj Industries' success. His focus on delivering consistent quality and economical solutions has elevated the business to remarkable heights.

As Natraj Industries approaches its Golden Jubilee, completing 47 illustrious years in the industry, it takes immense pride in having illuminated countless homes and establishments across the nation.

The company's flagship brands, Magdolin and Polostar, have become synonymous with quality and reliability, earning the trust and confidence of customers nationwide. Through its commitment to excellence, Natraj Industries continues to contribute significantly to India's growth and development.



# AGRICULTURE CABLES

A submersible pump cable is specifically designed for deep well applications, ensuring reliable performance in challenging environments. Given the confined installation space and harsh conditions, Polostar offers three-core submersible flat cables engineered for durability. These cables are ideal for use underground, underwater, or on moisture-prone surfaces, providing safe and efficient power transmission for submersible pumps.

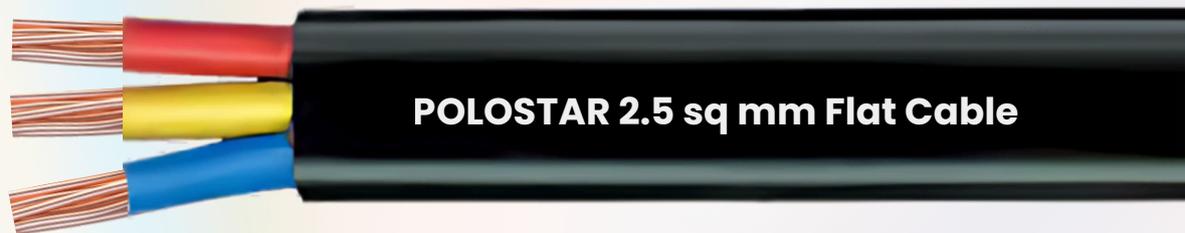
## Premium Advantages

- ⚡ High-Efficiency Conductors
- 🛡️ Heavy-Duty PVC Insulation
- 💧 Weather & Moisture Resistant
- 🔥 Safe & Reliable Operation
- 🚜 Built for Agricultural Applications



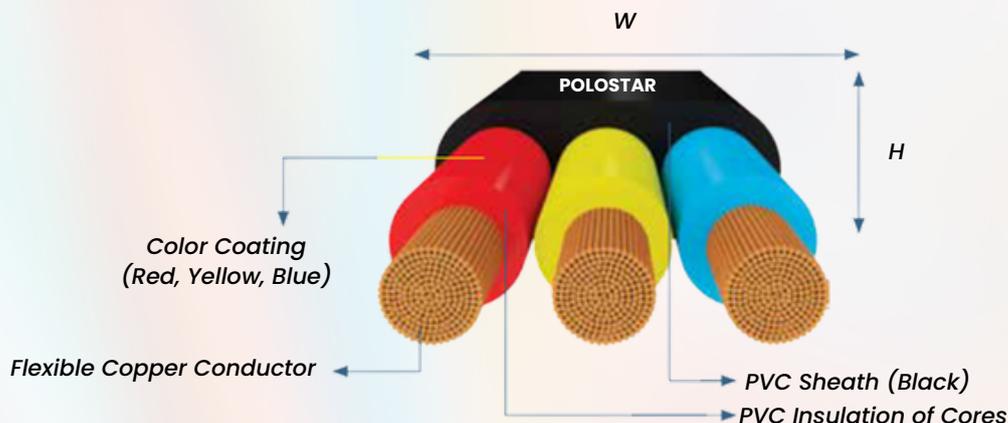
## THREE CORE FLAT PVC INSULATED COPPER CONDUCTOR FOR SUBMERSIBLE USE, 1100 VOLT

A submersible pump cable is specifically designed for deep well applications, ensuring reliable performance in challenging environments. Given the confined installation space and harsh conditions, Polostar offers three-core submersible flat cables engineered for durability. These cables are ideal for use underground, underwater, or on moisture-prone surfaces, providing safe and efficient power transmission for submersible pumps.



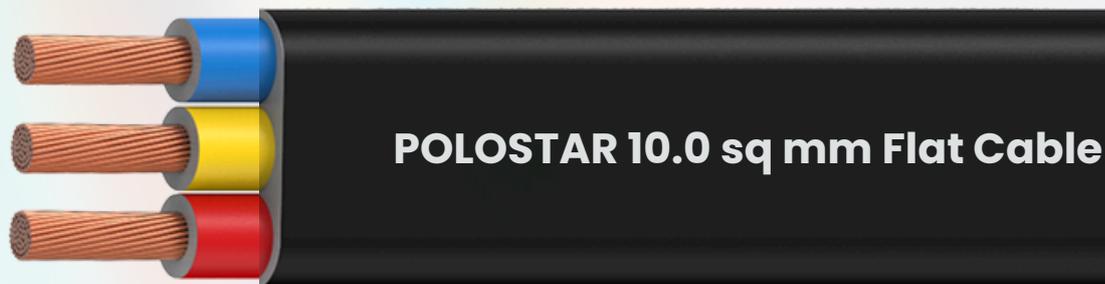
### Features of Polostar 3 Core Submersible Flat Cable:

- The outer sheath consists of highly abrasion resistant PVC compound impervious to grease, oil and water etc.
- Good insulation properties when submerged in water
- Excellent mechanical & electrical properties.
- Progressive sequential length marking on every meter.



## THREE CORE FLAT PVC INSULATED COPPER CONDUCTOR CABLE FOR SUBMERSIBLE USE, 1100 VOLT

Nominal area of conductor	Number/ Size of Wire for each Core	Nominal Thickness of Insulation	Nominal Thickness of Sheath	SHEATH Approx Overall Dimension		Maximum Conductor Resistance at 20 °C	Current Carrying Capacity at 40 °C
				Width (W)	Height (H)		
(Sq.mm)	(mm)	(mm)	(mm)	(Nom). mm	(Nom). mm	( $\Omega$ /km)	A
1.00 sq. mm	32 N/0.20 mm	0.6 mm	0.9 mm	9.4 mm	4.4 mm	19.50 $\Omega$ /km	11 A
1.50 sq. mm	30 N/0.20 mm	0.6 mm	0.9 mm	10.1 mm	4.7 mm	13.30 $\Omega$ /km	13 A
2.50 sq. mm	50 N/0.25 mm	0.7 mm	1.0 mm	12.2 mm	5.5 mm	7.98 $\Omega$ /km	18 A
4.00 sq. mm	56 N/0.30 mm	0.8 mm	1.0mm	14.6mm	6.5 mm	4.95 $\Omega$ /km	24 A
6.00 sq. mm	84 N/0.30 mm	0.8 mm	1.1 mm	16.2 mm	7.0 mm	3.30 $\Omega$ /km	31 A
10.00 sq. mm	80 N/0.40 mm	1.0 mm	1.4 mm	20.2 mm	8.5 mm	1.91 $\Omega$ /km	42 A
16.00 sq. mm	126 N/0.40 mm	1.0 mm	1.4mm	23.4 mm	9.7 mm	1.21 $\Omega$ /km	57 A
25.00 sq. mm	196 N/0.40 mm	1.2 mm	2.0 mm	28.5 mm	11.7 mm	0.780 $\Omega$ /km	72 A
35.00 sq. mm	276 N/0.40 mm	1.2 mm	2.0 mm	32.1 mm	13.0 mm	0.554 $\Omega$ /km	90 A



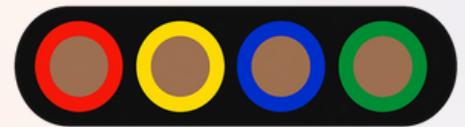
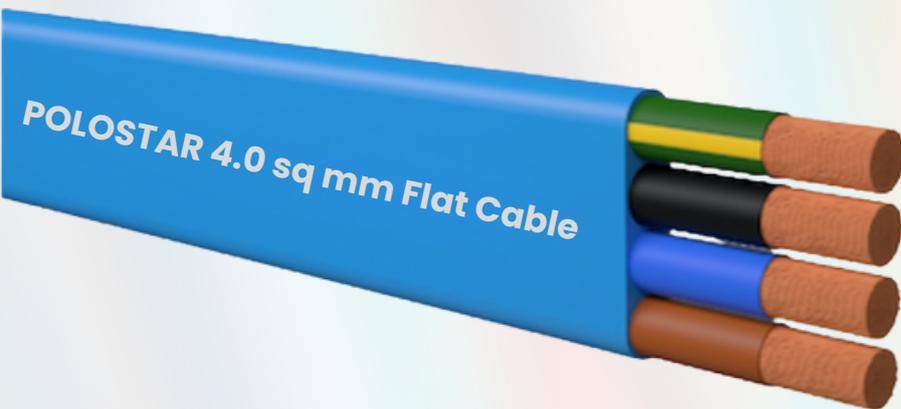
### NOTE:

Available in 500  $\pm$  5% meter packing in drums. Also available in 100 meter packing on request.

\*The number and diameter of conductor strands are for reference only. Conductor resistance as per IS 8130 is the governing criteria

## FOUR CORE FLAT PVC INSULATED COPPER CONDUCTOR CABLE FOR SUBMERSIBLE USE, 1100 VOLT

Nominal Size in	Nos. & Dia of Wire	Nominal Thickness of Insulation	Nominal Core Dia.	PVC Sheath		Conductor Resistance at 20 °C (Max) ohms/km	Current Rating at 40 °C Amps.	
				Nominal Thickness	Approx. Overall Dimensions			
(Sq.mm)	(Nos./mm)	(mm)	(mm)	mm	Height mm	Width mm	(Ω/km)	A
1.50	22/0.30	0.80	3.25	1.30	6.20	15.80	12.10	14
2.50	36/0.30	0.90	3.80	1.30	6.40	18.00	7.41	18
4.00	56/0.30	1.00	4.50	1.15	7.40	21.00	4.95	26
6.00	84/0.30	1.00	5.25	1.50	8.00	24.50	3.30	31
10.00	140/0.30	1.00	6.50	1.80	9.90	29.70	1.91	42
16.00	224/0.30	1.00	8.00	1.95	11.80	36.00	1.21	57
25.00	350/0.30	1.20	10.10	2.00	14.70	45.10	0.780	72



### NOTE:

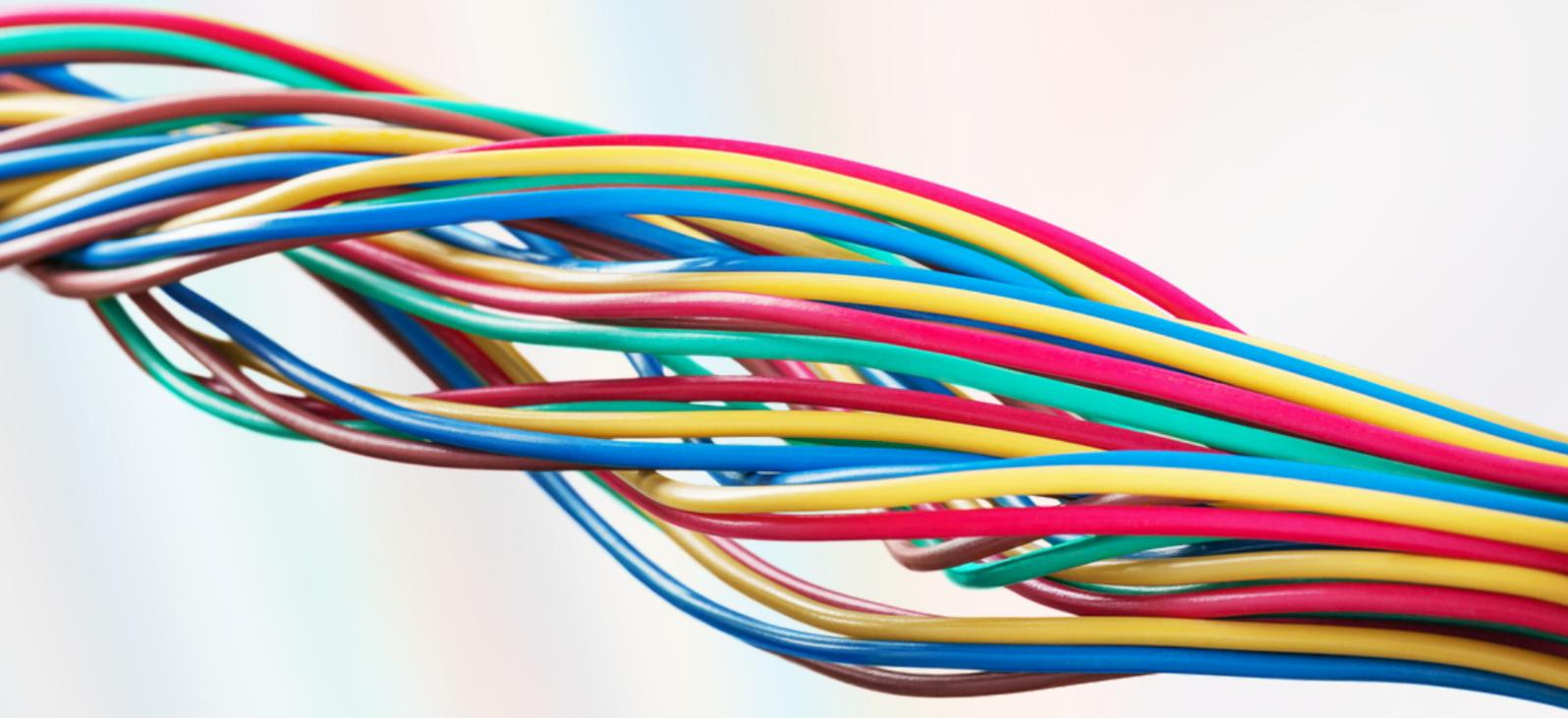
Available in 500 ± 5% meter packing in drums. Also available in 100 meter packing on request.

\*The number and diameter of conductor strands are for reference only. Conductor resistance as per IS 8130 is the governing criteria.

Core and Sheathing colors on specific request can also be supplied.



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